

## **TEST REPORT**

| Report No.:   | S23083004604001                                     |
|---------------|-----------------------------------------------------|
| Product:      | 4G Tablet                                           |
| Model No.:    | Tab 60, Tab 60 Kids                                 |
| Applicant:    | DOKE COMMUNICATION (HK) LIMITED                     |
| Address:      | RM 1902 EASEY COMM BLDG 253-261 HENNESSY            |
|               | ROAD WANCHAI HK CHINA                               |
| Issued by:    | Shenzhen NTEK Testing Technology Co., Ltd.          |
| Lab Location: | 1&5/F, Building C, 1&2/F, Building E, Fenda Science |
|               | Park, Sanwei Community, Hangcheng Street, Baoan     |
|               | District, Shenzhen ,Guangdong, China                |
| Tel:          | 400-800-6106, 0755-2320 0050 / 2320 0090            |
|               |                                                     |



This test report consists of 79 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by NTEK. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to NTEK within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

- Page 2 of 79 -

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Audio/video, informatior<br>Part                                                                                           | TEST REPO<br>IEC/EN 6236<br>and commun<br>1: Safety req | 8-1<br>nication technolo                                                                          | gy equipment               |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------|
| Report Number                                                                                                              | S23071203403001                                         | <u> </u>                                                                                          | A ST                       |
| Tested by (+ signature):                                                                                                   | Jack Ding                                               | )ask Ding                                                                                         |                            |
| Approved by (+ signature):                                                                                                 | Coco Li                                                 | Coco Un                                                                                           |                            |
| Date of issue:                                                                                                             | 2023-09-06                                              | <u>x x s</u>                                                                                      | 3                          |
| Name of Testing Laboratory preparing the Report:                                                                           | 1&5/F, Building C, 1                                    | esting Technology Co., L<br>&2/F, Building E, Fenda S<br>neng Street, Baoan Distric<br>ong, China | Science Park, Sanwei       |
| Applicant's name:                                                                                                          | DOKE COMMUNIC                                           | ATION (HK) LIMITED.                                                                               |                            |
| Address:                                                                                                                   | RM 1902 EASEY CO<br>WANCHAI HK CHIN                     | OMM BLDG 253-261 HE<br>NA                                                                         | NNESSY ROAD                |
| Test specification:                                                                                                        |                                                         |                                                                                                   | 4                          |
| Standard:                                                                                                                  | □ IEC 62368-1: 20                                       | 18 (Third Edition)                                                                                |                            |
|                                                                                                                            | EN IEC 62368-1                                          | :2020+A11:2020                                                                                    |                            |
| Test procedure                                                                                                             | CE Scheme                                               |                                                                                                   |                            |
| Non-standard test method:                                                                                                  | N/A                                                     |                                                                                                   |                            |
| TRF template used:                                                                                                         | IECEE OD-2020-F1                                        | :2021, Ed.1.4                                                                                     | 1 S                        |
| Test Report Form No                                                                                                        | IEC62368_1E                                             |                                                                                                   |                            |
| Test Report Form(s) Originator:                                                                                            | UL(US)                                                  |                                                                                                   |                            |
| Master TRF                                                                                                                 | Dated 2022-04-14                                        |                                                                                                   |                            |
| Copyright © 2022 IEC System of Cor<br>and Components (IECEE System). A<br>This publication may be reproduced in whole or i | Il rights reserved.                                     | I purposes as long as the IECE                                                                    | E is acknowledged as       |
| copyright owner and source of the material. IECE the reader's interpretation of the reproduced mat                         |                                                         |                                                                                                   | for damages resulting from |
| Test item description:                                                                                                     | 4G Tablet                                               |                                                                                                   |                            |
| Trade Mark:                                                                                                                | Blackview                                               |                                                                                                   |                            |
| Manufacturer:                                                                                                              |                                                         | Electronic Co., Ltd<br>n Industrial Zone, Yulv Co<br>n District, Shenzhen, Chir                   |                            |
| Model/Type reference:                                                                                                      | Tab 60, Tab 60 Ki                                       | ids 🔶 🗹                                                                                           |                            |
| Ratings:                                                                                                                   | Input:52A                                               |                                                                                                   | 4                          |

- Page 3 of 79 -

#### NTEK 北测<sup>®</sup>

Report No. S23083004604001

| s in each attachment):                                                                             |
|----------------------------------------------------------------------------------------------------|
|                                                                                                    |
|                                                                                                    |
| Testing location:                                                                                  |
| Shenzhen NTEK Testing Technology Co., Ltd.                                                         |
| 1&5/F, Building C, 1&2/F, Building E, Fenda                                                        |
| Science Park, Sanwei Community,<br>Hangcheng Street, Baoan District,<br>Shenzhen ,Guangdong, China |
|                                                                                                    |

Summary of compliance with National Differences (List of countries addressed):

EU group differences.

CENELEC member countries (EU group differences): Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, and Switzerland.

☑ The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020.

- Page 4 of 79 -

#### NTEK 北测<sup>®</sup>

Report No. S23083004604001

#### Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

Importer:XXX Add:XXX

Notes:

-The above labels are draft of an artwork for marking plate pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval. -Marking plate for all models in report are identical except for model name.

- 1. The height of graphical symbols "CE" shall not be less than 5 mm;
- 2. The height of graphical symbols "WEEE" shall not be less than 7 mm;
- 3. The main rating label was attached in enclosure.

Report No. S23083004604001

| Test item particulars:                               |                                                                                                                                                                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product group:                                       | 🖾 end product 🗌 built-in component                                                                                                                                                                                                   |
| Classification of use by:                            | <ul> <li>☑ Ordinary person</li> <li>☑ Instructed person</li> <li>☑ Skilled person</li> </ul>                                                                                                                                         |
| Supply connection:                                   | AC mains □ DC mains □ DC mains □ ES1 □ ES2 □ ES3                                                                                                                                                                                     |
| Supply tolerance:                                    | □ +10%/-10%<br>□ +20%/-15%<br>□ + %/- %<br>⊠ None                                                                                                                                                                                    |
| Supply connection – type:                            | <ul> <li>pluggable equipment type A -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> </ul>                                                                                              |
| wat what when t                                      | <ul> <li>pluggable equipment type B -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>permanent connection</li> <li>mating connector</li> </ul>                                                              |
| Considered current rating of protective device:      | <ul> <li>A.</li> <li>Location: □ building □ equipment</li> <li>N/A</li> </ul>                                                                                                                                                        |
| Equipment mobility:                                  | <ul> <li>movable</li> <li>movable</li> <li>hand-held</li> <li>transportable</li> <li>direct plug-in</li> <li>stationary</li> <li>for building-in</li> <li>wall/ceiling-mounted</li> <li>SRME/rack-mounted</li> <li>other:</li> </ul> |
| Overvoltage category (OVC)::                         | <ul> <li>○ OVC I</li> <li>○ OVC I</li> <li>○ OVC IV</li> <li>○ other: Not directly connected to the mains</li> </ul>                                                                                                                 |
| Class of equipment:<br>Special installation location | □ Class I       □ Class II       ⊠ Class III         □ Not classified       □         □ N/A       □ restricted access area         □ outdoor location       □                                                                        |
| Pollution degree (PD):                               | □ PD 1 □ PD 2 □ PD 3                                                                                                                                                                                                                 |
| Manufacturer's specified T <sub>ma</sub> :           | <u>40</u> °C(for battery discharging mode);<br><u>25</u> °C(for charging with AC power adapter mode)                                                                                                                                 |
| IP protection class:                                 | □ IPX0                                                                                                                                                                                                                               |
| Power systems::                                      | □ TN □ TT □ IT - V <sub>L-L</sub><br>⊠ not AC mains                                                                                                                                                                                  |
| Altitude during operation (m)                        |                                                                                                                                                                                                                                      |
| Altitude of test laboratory (m):                     | $\boxtimes$ 2000 m or less $\square$ m                                                                                                                                                                                               |
| Mass of equipment (kg):                              | approx. 0.340Kg                                                                                                                                                                                                                      |

Report No. S23083004604001

Possible test case verdicts:

- test case does not apply to the test object ....: N/A

- test object does meet the requirement...... P (Pass)

- test object does not meet the requirement ....: F (Fail)

**Testing:** 

Date of receipt of test item ...... 2023-07-19

Date (s) of performance of tests ...... 2023-07-19 to 2023-08-18

#### General remarks:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a  $\Box$  comma /  $\boxtimes$  point is used as the decimal separator.

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) .....: N/A

#### General product information and other remarks:

-The unit charged by approved external approved adapter according to EN 62368-1 and meet LPS requirements.

- The maximum operating temperature for battery discharging mode is 40°C. The maximum operating temperature for charging with AC power adapter mode is 25°C. Recommended to use up the battery capacity before charging for the sake of longer battery life. Please do not attach the battery charger to any power supply if the charger is not in service. Never attach the charger to the battery for over one week as excessive charging will shorten the battery life. Temperature will challenge chargeable limit of the battery, so the battery may need to be cooled down or warmed up prior to charging. Do not charge to the product if the battery Ambient temperature is above 25°C or below 0°C.

- In this report S23083004604001 add a power adapter, all test data in this report S23083004604001 is refer to the test data in initial report S23071203403001.

#### Model Differences -

All model totally same, only different model name, all of tests were conducted on model: Tab 60

| Clause                         | Possible Hazard                          |             |                     |                   |
|--------------------------------|------------------------------------------|-------------|---------------------|-------------------|
| 5                              | Electrically-caused injury               |             |                     |                   |
| Class and Energy Source        | Body Part Safeguards                     |             |                     |                   |
| (e.g. ES3: Primary circuit)    | (e.g. Ordinary)                          | В           | S                   | R 🏑               |
| ES1: All circuits              | Ordinary/ Instructed/ Skilled            | N/A         | N/A                 | N/A               |
| 6                              | Electrically-caused fire                 |             |                     |                   |
| Class and Energy Source        | Material part Safeguards                 |             |                     |                   |
| (e.g. PS2: 100 Watt circuit)   | (e.g. Printed board)                     | В           | 1 <sup>st</sup> S   | 2 <sup>nd</sup> S |
| PS2 (Lithium-ion Polymer)      | Enclosure                                | See 6.3     | V-0                 | N/A               |
| PS2                            | РСВ                                      | See 6.3     | Min. V-1            | N/A               |
| PS2                            | Other combustible components / materials | See 6.3     | See 6.4.5,<br>6.4.6 | N/A               |
| 7 🔬 🔬                          | Injury caused by hazardous substances    |             |                     |                   |
| Class and Energy Source        | Body Part                                | 4           | Safeguards          |                   |
| (e.g. Ozone)                   | (e.g., Skilled)                          | В           | S                   | R                 |
| Lithium-ion Polymer            | Ordinary/ Instructed/ Skilled            | See Annex M | N/A                 | N/A               |
| 8                              | Mechanically-caused injury               |             | <u> </u>            |                   |
| Class and Energy Source        | Body Part                                | 7           | Safeguards          | At .              |
| (e.g. MS3: Plastic fan blades) | (e.g. Ordinary)                          | В           | S                   | R                 |
| MS1: Equipment Mass            | Ordinary/ Instructed/ Skilled            | N/A         | N/A                 | N/A               |
| MS1: Sharp edges and corners   | Ordinary/ Instructed/ Skilled            | N/A         | N/A                 | N/A               |
| 9                              | Thermal burn                             |             |                     | $\sim$            |
| Class and Energy Source        | Body Part                                |             | Safeguards          |                   |
| (e.g. TS1: Keyboard caps)      | (e.g., Ordinary)                         | в <         | S                   | R                 |
| TS1: All accessible parts      | Ordinary/ Instructed/ Skilled            | N/A         | N/A                 | N/A               |
| 10                             | Radiation                                |             |                     |                   |
| Class and Energy Source        | Body Part                                |             | Safeguards          |                   |
| (e.g. RS1: PMP sound output)   | (e.g., Ordinary)                         | В           | S                   | R                 |
| RS1: LCD display or LED        | Ordinary/ Instructed/ Skilled            | N/A         | N/A                 | N/A               |

"B" – Basic Safeguard; "S" – Supplementary Safeguard; "R" – Reinforced Safeguard

#### Report No. S23083004604001

#### ENERGY SOURCE DIAGRAM

**Optional**. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

⊠ ES ⊠ PS ⊠ MS ⊠ TS ⊠ RS

Remark: see above table "OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS" for details.

Page 9 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause   | Requirement + Test                                      | Result - Remark                                                                                                                                                                                      | Verdic |
|----------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|          |                                                         |                                                                                                                                                                                                      | Vordio |
| 4        | GENERAL REQUIREMENTS                                    | <u> </u>                                                                                                                                                                                             | Р      |
| 4.1.1    | Acceptance of materials, components and subassemblies   | (See appended Table 4.1.2.)                                                                                                                                                                          | Р      |
| 4.1.2    | Use of components                                       | Safeguard components are<br>certified to IEC and/or national<br>standards and are used<br>correctly within their ratings.                                                                            | Р      |
| 4.1.3    | Equipment design and construction                       | Evaluation of safeguards<br>limiting the source supplying<br>outputs to fulfill ES1, and<br>protection in regard to risk of<br>ignition, mechanical-caused<br>injury and thermal burn<br>considered. | P      |
| 4.1.4    | Specified ambient temperature for outdoor use (°C)      | At A A                                                                                                                                                                                               | N/A    |
| 4.1.5    | Constructions and components not specifically covered   | <                                                                                                                                                                                                    | N/A    |
| 4.1.8    | Liquids and liquid filled components (LFC)              | No such parts used.                                                                                                                                                                                  | N/A    |
| 4.1.15   | Markings and instructions                               | (See Annex F)                                                                                                                                                                                        | Р      |
| 4.4.3    | Safeguard robustness                                    | See below                                                                                                                                                                                            | P      |
| 4.4.3.1  | General                                                 | 2                                                                                                                                                                                                    | Р      |
| 4.4.3.2  | Steady force tests                                      | (See Annex T.4)                                                                                                                                                                                      | Р      |
| 4.4.3.3  | Drop tests                                              | (See Annex T.7)                                                                                                                                                                                      | Р      |
| 4.4.3.4  | Impact tests                                            |                                                                                                                                                                                                      | N/A    |
| 4.4.3.5  | Internal accessible safeguard tests                     |                                                                                                                                                                                                      | N/A    |
| 4.4.3.6  | Glass impact tests                                      | 4                                                                                                                                                                                                    | N/A    |
| 4.4.3.7  | Glass fixation tests                                    | ×                                                                                                                                                                                                    | N/A    |
|          | Glass impact test (1J)                                  | A S                                                                                                                                                                                                  | N/A    |
| 4        | Push/pull test (10 N)                                   |                                                                                                                                                                                                      | N/A    |
| 4.4.3.8  | Thermoplastic material tests                            | (See Annex T.8)                                                                                                                                                                                      | Р      |
| 4.4.3.9  | Air comprising a safeguard                              |                                                                                                                                                                                                      | N/A    |
| 4.4.3.10 | Accessibility, glass, safeguard effectiveness           | All safeguard remains effective                                                                                                                                                                      | Р      |
| 4.4.4    | Displacement of a safeguard by an insulating liquid     |                                                                                                                                                                                                      | N/A    |
| 4.4.5    | Safety interlocks                                       | <u>ب</u> بې                                                                                                                                                                                          | N/A    |
| 4.5      | Explosion                                               | A A                                                                                                                                                                                                  | Р      |
| 4.5.1    | General                                                 | (See Annex M for batteries)                                                                                                                                                                          | P      |
| 4.5.2    | No explosion during normal/abnormal operating condition | (See Clause B.2, B.3)                                                                                                                                                                                | Р      |

Page 10 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

|         |                               | IEC 62368-1             |                                | *       |
|---------|-------------------------------|-------------------------|--------------------------------|---------|
| Clause  | Requirement + Test            |                         | Result - Remark                | Verdict |
|         | No harm by explosion during   | single fault conditions | (See Clause B.4)               | Р       |
| 4.6     | Fixing of conductors          | A                       |                                | N/A     |
| 5       | Fix conductors not to defeat  | a safeguard             |                                | N/A     |
|         | Compliance is checked by te   | est:                    |                                | N/A     |
| 4.7     | Equipment for direct insert   | tion into mains socket- | -outlets                       | N/A     |
| 4.7.2   | Mains plug part complies wit  | h relevant standard :   | Not such equipment.            | N/A     |
| 4.7.3   | Torque (Nm)                   |                         |                                | N/A     |
| 4.8     | Equipment containing coir     | n/button cell batteries |                                | N/A     |
| 4.8.1   | General                       |                         | No coin/button batteries used. | N/A     |
| 4.8.2   | Instructional safeguard       |                         |                                | N/A     |
| 4.8.3   | Battery compartment door/co   | over construction       |                                | N/A     |
|         | Open torque test              |                         | N 4 4.                         | N/A     |
| 4.8.4.2 | Stress relief test            |                         | 4                              | N/A     |
| 4.8.4.3 | Battery replacement test      |                         |                                | N/A     |
| 4.8.4.4 | Drop test                     |                         | A A S                          | N/A     |
| 4.8.4.5 | Impact test                   | t.                      |                                | N/A     |
| 4.8.4.6 | Crush test                    | * 5                     |                                | N/A     |
| 4.8.5   | Compliance                    |                         | · 4                            | N/A     |
|         | 30N force test with test prob | е                       |                                | N/A     |
|         | 20N force test with test hook |                         | × ×                            | N/A     |
| 4.9     | Likelihood of fire or shock   | due to entry of conduc  | ctive object                   | Р       |
| 4.10    | Component requirements        |                         | Re l                           | N/A     |
| 4.10.1  | Disconnect Device             | L.                      | (See Annex L)                  | N/A     |
| 4.10.2  | Switches and relays           |                         |                                | N/A     |

| 5       | ELECTRICALLY-CAUSED INJURY                                                                     |                          | Р   |
|---------|------------------------------------------------------------------------------------------------|--------------------------|-----|
| 5.2     | Classification and limits of electrical energy sources         2       ES1, ES2 and ES3 limits |                          | Р   |
| 5.2.2   |                                                                                                |                          | P   |
| 5.2.2.2 | Steady-state voltage and current limits:                                                       | (See appended table 5.2) | Р   |
| 5.2.2.3 | Capacitance limits:                                                                            | (See appended table 5.2) | N/A |
| 5.2.2.4 | Single pulse limits:                                                                           | (See appended table 5.2) | N/A |
| 5.2.2.5 | Limits for repetitive pulses                                                                   | (See appended table 5.2) | N/A |
| 5.2.2.6 | Ringing signals                                                                                | X S                      | N/A |
| 5.2.2.7 | Audio signals                                                                                  | 2                        | N/A |
| 5.3     | Protection against electrical energy sources                                                   | * * *                    | N/A |

Page 11 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause     | Requirement + Test                                                                    | Result - Remark                                                   | Verdict |
|------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------|
| 5.3.1      | General Requirements for accessible parts to ordinary, instructed and skilled persons | Only ES1 circuit generated<br>and accessible in this<br>equipment | N/A     |
| 5.3.1 a)   | Accessible ES1/ES2 derived from ES2/ES3 circuits                                      | · · · ·                                                           | N/A     |
| 5.3.1 b)   | Skilled persons not unintentional contact ES3 bare conductors                         |                                                                   | N/A     |
| 5.3.2.1    | Accessibility to electrical energy sources and safeguards                             | 4                                                                 | N/A     |
|            | Accessibility to outdoor equipment bare parts                                         |                                                                   | N/A     |
| 5.3.2.2    | Contact requirements                                                                  |                                                                   | N/A     |
|            | Test with test probe from Annex V                                                     | <                                                                 |         |
| 5.3.2.2 a) | Air gap – electric strength test potential (V): :                                     |                                                                   | N/A     |
| 5.3.2.2 b) | Air gap – distance (mm):                                                              | 2 3 3                                                             | N/A     |
| 5.3.2.3    | Compliance                                                                            | 5                                                                 | N/A     |
| 5.3.2.4    | Terminals for connecting stripped wire                                                |                                                                   | N/A     |
| 5.4        | Insulation materials and requirements                                                 |                                                                   | N/A     |
| 5.4.1.2    | Properties of insulating material                                                     | A A S                                                             | N/A     |
| 5.4.1.3    | Material is non-hygroscopic                                                           |                                                                   | N/A     |
| 5.4.1.4    | Maximum operating temperature for insulating materials:                               |                                                                   | N/A     |
| 5.4.1.5    | Pollution degrees:                                                                    |                                                                   | N/A     |
| 5.4.1.5.2  | Test for pollution degree 1 environment and for an insulating compound                |                                                                   | N/A     |
| 5.4.1.5.3  | Thermal cycling test                                                                  |                                                                   | N/A     |
| 5.4.1.6    | Insulation in transformers with varying dimensions                                    | ~                                                                 | N/A     |
| 5.4.1.7    | Insulation in circuits generating starting pulses                                     |                                                                   | N/A     |
| 5.4.1.8    | Determination of working voltage:                                                     | the states                                                        | N/A     |
| 5.4.1.9    | Insulating surfaces                                                                   |                                                                   | N/A     |
| 5.4.1.10   | Thermoplastic parts on which conductive metallic parts are directly mounted           |                                                                   | N/A     |
| 5.4.1.10.2 | Vicat test:                                                                           | A 2                                                               | N/A     |
| 5.4.1.10.3 | Ball pressure test:                                                                   | S.                                                                | N/A     |
| 5.4.2      | Clearances                                                                            |                                                                   | N/A     |
| 5.4.2.1    | General requirements                                                                  |                                                                   | N/A     |
|            | Clearances in circuits connected to AC Mains,<br>Alternative method                   | ALL S                                                             | N/A     |
| 5.4.2.2    | Procedure 1 for determining clearance                                                 |                                                                   | N/A     |

Page 12 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause      | Requirement + Test                                                                          | Result - Remark   | Verdic |
|-------------|---------------------------------------------------------------------------------------------|-------------------|--------|
| Clause      |                                                                                             | Result - Remark   | veruic |
|             | Temporary overvoltage:                                                                      | t S               | _      |
| 5.4.2.3     | Procedure 2 for determining clearance                                                       |                   | N/A    |
| 5.4.2.3.2.2 | a.c. mains transient voltage:                                                               |                   |        |
| 5.4.2.3.2.3 | d.c. mains transient voltage:                                                               |                   | 4      |
| 5.4.2.3.2.4 | External circuit transient voltage                                                          |                   | —      |
| 5.4.2.3.2.5 | Transient voltage determined by measurement:                                                | 4                 | *      |
| 5.4.2.4     | Determining the adequacy of a clearance using an electric strength test                     | t at              | N/A    |
| 5.4.2.5     | Multiplication factors for clearances and test voltages                                     | the t             | N/A    |
| 5.4.2.6     | Clearance measurement:                                                                      |                   | N/A    |
| 5.4.3       | Creepage distances                                                                          |                   | N/A    |
| 5.4.3.1     | General                                                                                     |                   | N/A    |
| 5.4.3.3     | Material group:                                                                             |                   | _      |
| 5.4.3.4     | Creepage distances measurement:                                                             |                   | N/A    |
| 5.4.4       | Solid insulation                                                                            |                   | N/A    |
| 5.4.4.1     | General requirements                                                                        |                   | N/A    |
| 5.4.4.2     | Minimum distance through insulation:                                                        |                   | N/A    |
| 5.4.4.3     | Insulating compound forming solid insulation                                                |                   | N/A    |
| 5.4.4.4     | Solid insulation in semiconductor devices                                                   |                   | N/A    |
| 5.4.4.5     | Insulating compound forming cemented joints                                                 |                   | N/A    |
| 5.4.4.6     | Thin sheet material                                                                         |                   | N/A    |
| 5.4.4.6.1   | General requirements                                                                        | 4                 | N/A    |
| 5.4.4.6.2   | Separable thin sheet material                                                               | *                 | N/A    |
| 7           | Number of layers (pcs):                                                                     |                   | N/A    |
| 5.4.4.6.3   | Non-separable thin sheet material                                                           |                   | N/A    |
| 1           | Number of layers (pcs):                                                                     | 7                 | N/A    |
| 5.4.4.6.4   | Standard test procedure for non-separable thin sheet material                               | the second second | N/A    |
| 5.4.4.6.5   | Mandrel test                                                                                |                   | N/A    |
| 5.4.4.7     | Solid insulation in wound components                                                        | 2                 | N/A    |
| 5.4.4.9     | Solid insulation at frequencies >30 kHz, $E_{\rm P}$ , $K_{\rm R}$ , $d$ , $V_{\rm PW}$ (V) |                   | N/A    |
|             | Alternative by electric strength test, tested voltage (V), $K_{\rm R}$ :                    |                   | N/A    |
| 5.4.5       | Antenna terminal insulation                                                                 |                   | N/A    |

Page 13 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause     | Requirement + Test                                             | Result - Remark | Verdict  |
|------------|----------------------------------------------------------------|-----------------|----------|
|            |                                                                |                 |          |
| 5.4.5.1    | General                                                        |                 | N/A      |
| 5.4.5.2    | Voltage surge test                                             |                 | N/A      |
| 5.4.5.3    | Insulation resistance (M )                                     | 4               | N/A      |
|            | Electric strength test                                         |                 | N/A      |
| 5.4.6      | Insulation of internal wire as part of supplementary safeguard |                 | N/A      |
| 5.4.7      | Tests for semiconductor components and for cemented joints     |                 | N/A      |
| 5.4.8      | Humidity conditioning                                          | A S             | N/A      |
| NOT .      | Relative humidity (%), temperature (°C), duration (h)          |                 | _        |
| 5.4.9      | Electric strength test                                         |                 | N/A      |
| 5.4.9.1    | Test procedure for type test of solid insulation :             | × + +           | N/A      |
| 5.4.9.2    | Test procedure for routine test                                | ~               | N/A      |
| 5.4.10     | Safeguards against transient voltages from external circuits   |                 | N/A      |
| 5.4.10.1   | Parts and circuits separated from external circuits            | A A A           | N/A      |
| 5.4.10.2   | Test methods                                                   |                 | N/A      |
| 5.4.10.2.1 | General                                                        | <u>s</u>        | N/A      |
| 5.4.10.2.2 | Impulse test                                                   |                 | N/A      |
| 5.4.10.2.3 | Steady-state test                                              |                 | N/A      |
| 5.4.10.3   | Verification for insulation breakdown for impulse test         | the state       | N/A      |
| 5.4.11     | Separation between external circuits and earth                 | 5               | N/A      |
| 5.4.11.1   | Exceptions to separation between external circuits and earth   |                 | N/A      |
| 5.4.11.2   | Requirements                                                   | 1 S             | N/A      |
| X          | SPDs bridge separation between external circuit and earth      | A               | N/A      |
| 5          | Rated operating voltage U <sub>op</sub> (V)                    |                 | <u> </u> |
|            | Nominal voltage U <sub>peak</sub> (V)                          | A 2             | _        |
| (          | Max increase due to variation U <sub>sp</sub>                  | ST I            |          |
|            | Max increase due to ageing U <sub>sa</sub> :                   |                 | <u> </u> |
| 5.4.11.3   | Test method and compliance                                     |                 | N/A      |
| 5.4.12     | Insulating liquid                                              | AT S            | N/A      |
| 5.4.12.1   | General requirements                                           |                 | N/A      |
| 5.4.12.2   | Electric strength of an insulating liquid                      |                 | N/A      |

#### Page 14 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause   | Requirement + Test                                                                  | Result - Remark | Verdict |
|----------|-------------------------------------------------------------------------------------|-----------------|---------|
| 5.4.12.3 | Compatibility of an insulating liquid                                               |                 | N/A     |
| 5.4.12.4 | Container for insulating liquid                                                     |                 | N/A     |
| 5.5      | Components as safeguards                                                            |                 | N/A     |
| 5.5.1    | General                                                                             |                 | N/A     |
| 5.5.2    | Capacitors and RC units                                                             | A 2             | N/A     |
| 5.5.2.1  | General requirement                                                                 | 2               | N/A     |
| 5.5.2.2  | Safeguards against capacitor discharge after disconnection of a connector           | t st            | N/A     |
| 5.5.3    | Transformers                                                                        |                 | N/A     |
| 5.5.4    | Optocouplers                                                                        |                 | N/A     |
| 5.5.5    | Relays                                                                              |                 | N/A     |
| 5.5.6    | Resistors                                                                           | A & S           | N/A     |
| 5.5.7    | SPDs                                                                                | 5               | N/A     |
| 5.5.8    | Insulation between the mains and an external circuit consisting of a coaxial cable: |                 | N/A     |
| 5.5.9    | Safeguards for socket-outlets in outdoor equipment                                  | A A S           | N/A     |
| ×        | RCD rated residual operating current (mA):                                          | 2, 4,           | _       |
| 5.6      | Protective conductor                                                                | R               | N/A     |
| 5.6.2    | Requirement for protective conductors                                               | ×               | N/A     |
| 5.6.2.1  | General requirements                                                                | - 2             | N/A     |
| 5.6.2.2  | Colour of insulation                                                                |                 | N/A     |
| 5.6.3    | Requirement for protective earthing conductors                                      |                 | N/A     |
|          | Protective earthing conductor size (mm <sup>2</sup> ):                              | 5               | —       |
| -Star    | Protective earthing conductor serving as a reinforced safeguard                     | , t             | N/A     |
|          | Protective earthing conductor serving as a double safeguard                         |                 | N/A     |
| 5.6.4    | Requirements for protective bonding conductors                                      |                 | N/A     |
| 5.6.4.1  | Protective bonding conductors                                                       |                 | SN/A    |
|          | Protective bonding conductor size (mm <sup>2</sup> ):                               |                 | _       |
| 5.6.4.2  | Protective current rating (A)                                                       | 5               | N/A     |
| 5.6.5    | Terminals for protective conductors                                                 | . –             | N/A     |
| 5.6.5.1  | Terminal size for connecting protective earthing conductors (mm):                   | 1               | N/A     |
| t.       | Terminal size for connecting protective bonding conductors (mm)                     | 4               | N/A     |
| 5.6.5.2  | Corrosion                                                                           |                 | N/A     |

Page 15 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause  | Requirement + Test                                                                  | Result - Remark        | Verdict |
|---------|-------------------------------------------------------------------------------------|------------------------|---------|
| Clause  |                                                                                     | Result - Remark        | verdict |
| 5.6.6   | Resistance of the protective bonding system                                         | t S                    | N/A     |
| 5.6.6.1 | Requirements                                                                        |                        | N/A     |
| 5.6.6.2 | Test Method:                                                                        |                        | N/A     |
| 5.6.6.3 | Resistance ( ) or voltage drop:                                                     |                        | N/A     |
| 5.6.7   | Reliable connection of a protective earthing conductor                              | Star &                 | N/A     |
| 5.6.8   | Functional earthing                                                                 |                        | N/A     |
| *       | Conductor size (mm <sup>2</sup> ):                                                  |                        | N/A     |
| Ļ       | Class II with functional earthing marking                                           | 1 × ×                  | N/A     |
| A.      | Appliance inlet cl & cr (mm):                                                       |                        | N/A     |
| 5.7     | Prospective touch voltage, touch current and protect                                | tive conductor current | N/A     |
| 5.7.2   | Measuring devices and networks                                                      | A 7 5                  | N/A     |
| 5.7.2.1 | Measurement of touch current                                                        | 5                      | N/A     |
| 5.7.2.2 | Measurement of voltage                                                              |                        | N/A     |
| 5.7.3   | Equipment set-up, supply connections and earth connections                          | to the star            | N/A     |
| 5.7.4   | Unearthed accessible parts                                                          | . 7                    | N/A     |
| 5.7.5   | Earthed accessible conductive parts:                                                | R                      | N/A     |
| 5.7.6   | Requirements when touch current exceeds ES2 limits                                  | di C                   | N/A     |
|         | Protective conductor current (mA):                                                  | 4. X                   | N/A     |
| 7       | Instructional Safeguard                                                             |                        | N/A     |
| 5.7.7   | Prospective touch voltage and touch current associated with external circuits       | ALC F                  | N/A     |
| 5.7.7.1 | Touch current from coaxial cables                                                   | ×                      | N/A     |
| 5.7.7.2 | Prospective touch voltage and touch current associated with paired conductor cables |                        | N/A     |
| 5.7.8   | Summation of touch currents from external circuits                                  | 4.                     | N/A     |
| L'é     | a) Equipment connected to earthed external circuits, current (mA):                  | , at                   | N/A     |
| 1       | b) Equipment connected to unearthed external circuits, current (mA):                | Star &                 | N/A     |
| 5.8     | Backfeed safeguard in battery backed up supplies                                    |                        | N/A     |
|         | Mains terminal ES                                                                   |                        | N/A     |
|         | Air gap (mm):                                                                       | X S                    | N/A     |

6

ELECTRICALLY- CAUSED FIRE

Shenzhen NTEK Testing Technology Co., Ltd

Ρ

#### Page 16 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause  | Requirement + Test                                                                                                            | Result - Remark                                                                                                                                                                                                                                                                                                   | Verdict |
|---------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 6.2     | Classification of PS and PIS                                                                                                  |                                                                                                                                                                                                                                                                                                                   | Р       |
| 6.2.2   | Power source circuit classifications                                                                                          | (See appended table 6.2.2)                                                                                                                                                                                                                                                                                        | Р       |
| 6.2.3   | Classification of potential ignition sources                                                                                  | See below.                                                                                                                                                                                                                                                                                                        | P       |
| 6.2.3.1 | Arcing PIS                                                                                                                    | No Arcing PIS exist in the equipment                                                                                                                                                                                                                                                                              | N/A     |
| 6.2.3.2 | Resistive PIS                                                                                                                 | All conductors and devices are considered as Resistive PIS.                                                                                                                                                                                                                                                       | P       |
| 6.3 🤝   | Safeguards against fire under normal operating ar conditions                                                                  | nd abnormal operating                                                                                                                                                                                                                                                                                             | P       |
| 6.3.1   | No ignition and attainable temperature value less<br>than 90 % defined by ISO 871 or less than 300 C<br>for unknown materials | (See appended table 5.4.1.4,<br>9.3, B.1.5, B.2.6)                                                                                                                                                                                                                                                                | P       |
| *       | Combustible materials outside fire enclosure:                                                                                 |                                                                                                                                                                                                                                                                                                                   | N/A     |
| 6.4     | Safeguards against fire under single fault condition                                                                          | ons 🔨 🔽                                                                                                                                                                                                                                                                                                           | Р       |
| 6.4.1   | Safeguard method                                                                                                              | Method of Control fire spread used.                                                                                                                                                                                                                                                                               | Р       |
| 6.4.2   | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits                                         | AT AT AN                                                                                                                                                                                                                                                                                                          | N/A     |
| 6.4.3   | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits                                 |                                                                                                                                                                                                                                                                                                                   | Р       |
| 6.4.3.1 | Supplementary safeguards                                                                                                      | 4                                                                                                                                                                                                                                                                                                                 | Р       |
| 6.4.3.2 | Single Fault Conditions                                                                                                       | (See appended table B.3, B.4)                                                                                                                                                                                                                                                                                     | Р       |
|         | Special conditions for temperature limited by fuse                                                                            | ( <del>\</del>                                                                                                                                                                                                                                                                                                    | N/A     |
| 6.4.4   | Control of fire spread in PS1 circuits                                                                                        | A S                                                                                                                                                                                                                                                                                                               | Р       |
| 6.4.5   | Control of fire spread in PS2 circuits                                                                                        | See below.                                                                                                                                                                                                                                                                                                        | Р       |
| 6.4.5.2 | Supplementary safeguards                                                                                                      | Compliance detailed as follows:                                                                                                                                                                                                                                                                                   | Р       |
|         | what what what what                                                                                                           | <ul> <li>Printed board: rated min. V-<br/>1 class material;</li> <li>The battery packs:<br/>complying with IEC 62133-2.</li> <li>All other components: at<br/>least V-2 except for parts<br/>mounted on min. V-1<br/>material or small parts of<br/>combustible material (with<br/>mass less than 4g).</li> </ul> | sigt of |
| 6.4.6   | Control of fire spread in PS3 circuits                                                                                        | <u> </u>                                                                                                                                                                                                                                                                                                          | N/A     |
| 6.4.7   | Separation of combustible materials from a PIS                                                                                | V-0 enclosure used                                                                                                                                                                                                                                                                                                | Р       |
| 6.4.7.2 | Separation by distance                                                                                                        |                                                                                                                                                                                                                                                                                                                   | N/A     |
| 6.4.7.3 | Separation by a fire barrier                                                                                                  |                                                                                                                                                                                                                                                                                                                   | N/A     |

#### Page 17 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

| 0         | IEC 62368-1                                                                                       |                                             |         |
|-----------|---------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
| Clause    | Requirement + Test                                                                                | Result - Remark                             | Verdict |
| 6.4.8     | Fire enclosures and fire barriers                                                                 | V-0 enclosure used                          | Р       |
| 6.4.8.2   | Fire enclosure and fire barrier material properties                                               | -                                           | Р       |
| 6.4.8.2.1 | Requirements for a fire barrier                                                                   |                                             | N/A     |
| 6.4.8.2.2 | Requirements for a fire enclosure                                                                 | Fire enclosure used                         | P       |
| 6.4.8.3   | Constructional requirements for a fire enclosure and a fire barrier                               |                                             | Р       |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings                                                          | No opening                                  | N/A     |
| 6.4.8.3.2 | Fire barrier dimensions                                                                           |                                             | N/A     |
| 6.4.8.3.3 | Top openings and properties                                                                       |                                             | N/A     |
|           | Openings dimensions (mm):                                                                         |                                             | N/A     |
| 6.4.8.3.4 | Bottom openings and properties                                                                    |                                             | N/A     |
|           | Openings dimensions (mm):                                                                         | A 4 5                                       | N/A     |
|           | Flammability tests for the bottom of a fire enclosure                                             | 2                                           | N/A     |
|           | Instructional Safeguard                                                                           |                                             | N/A     |
| 6.4.8.3.5 | Side openings and properties                                                                      |                                             | N/A     |
| 4         | Openings dimensions (mm):                                                                         |                                             | N/A     |
| 6.4.8.3.6 | Integrity of a fire enclosure, condition met: a), b) or c)                                        |                                             | N/A     |
| 6.4.8.4   | Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating | V-0 enclosure used                          | Р       |
| 6.4.9     | Flammability of insulating liquid                                                                 | ~ ~ ~                                       | N/A     |
| 6.5 🤿     | Internal and external wiring                                                                      |                                             | N/A     |
| 6.5.1     | General requirements                                                                              |                                             | N/A     |
| 6.5.2     | Requirements for interconnection to building wiring                                               | No such interconnection to building wiring. | N/A     |
| 6.5.3     | Internal wiring size (mm <sup>2</sup> ) for socket-outlets:                                       | No socket-outlet used.                      | N/A     |
| 6.6       | Safeguards against fire due to the connection to                                                  | additional equipment                        | Р       |

| 7   | INJURY CAUSED BY HAZARDOUS SUBSTANCES                             | Р   |
|-----|-------------------------------------------------------------------|-----|
| 7.2 | Reduction of exposure to hazardous substances                     | N/A |
| 7.3 | Ozone exposure                                                    | N/A |
| 7.4 | Use of personal safeguards or personal protective equipment (PPE) | N/A |
| 2   | Personal safeguards and instructions                              | _ < |
| 7.5 | Use of instructional safeguards and instructions                  | N/A |
| ¥   | Instructional safeguard (ISO 7010):                               |     |
| 7.6 | Batteries and their protection circuits                           | Р   |
|     |                                                                   |     |

#### Page 18 of 79

Report No. S23083004604001

## NTEK 北测<sup>®</sup>

|        |                    | IEC 62368-1 | 5 2             |         |
|--------|--------------------|-------------|-----------------|---------|
| Clause | Requirement + Test |             | Result - Remark | Verdict |

| 8           | MECHANICALLY-CAUSED INJURY                                                  |                                                                                            | Р   |
|-------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----|
| 8.2         | Mechanical energy source classifications                                    |                                                                                            | Р   |
| 8.3         | Safeguards against mechanical energy sources                                | t t                                                                                        | Р   |
| 8.4         | Safeguards against parts with sharp edges and co                            | orners 🦟 🔬                                                                                 | Р   |
| 8.4.1       | Safeguards                                                                  | 2                                                                                          | N/A |
| 5           | Instructional Safeguard                                                     |                                                                                            | N/A |
| 8.4.2       | Sharp edges or corners                                                      | Accessible edges and corners<br>of the equipment are rounded<br>and are classified as MS1. | P   |
| 8.5         | Safeguards against moving parts                                             |                                                                                            | N/A |
| 8.5.1       | Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts     | At all al                                                                                  | N/A |
| .ct         | MS2 or MS3 part required to be accessible for the function of the equipment | 4                                                                                          | N/A |
|             | Moving MS3 parts only accessible to skilled person                          |                                                                                            | N/A |
| 8.5.2       | Instructional safeguard:                                                    |                                                                                            | N/A |
| 8.5.4       | Special categories of equipment containing moving parts                     | 2. 4                                                                                       | N/A |
| 8.5.4.1     | General                                                                     | 4                                                                                          | N/A |
| 8.5.4.2     | Equipment containing work cells with MS3 parts                              |                                                                                            | N/A |
| 8.5.4.2.1   | Protection of persons in the work cell                                      | × ×                                                                                        | N/A |
| 8.5.4.2.2   | Access protection override                                                  | t st                                                                                       | N/A |
| 8.5.4.2.2.1 | Override system                                                             |                                                                                            | N/A |
| 8.5.4.2.2.2 | Visual indicator                                                            |                                                                                            | N/A |
| 8.5.4.2.3   | Emergency stop system                                                       |                                                                                            | N/A |
|             | Maximum stopping distance from the point of activation (m)                  | STATE OF                                                                                   | N/A |
| STOR        | Space between end point and nearest fixed mechanical part (mm)              | dt -                                                                                       | N/A |
| 8.5.4.2.4   | Endurance requirements                                                      | * *                                                                                        | N/A |
| d t         | Mechanical system subjected to 100 000 cycles of operation                  | 4                                                                                          | N/A |
|             | - Mechanical function check and visual inspection                           | A 4                                                                                        | N/A |
|             | - Cable assembly:                                                           | A 5                                                                                        | N/A |
| 8.5.4.3     | Equipment having electromechanical device for destruction of media          | 5                                                                                          | N/A |
| 8.5.4.3.1   | Equipment safeguards                                                        |                                                                                            | N/A |

Page 19 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| 0         | IEC 62368-1                                            |                                                                                                                 | N/ 11  |
|-----------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------|
| Clause    | Requirement + Test                                     | Result - Remark                                                                                                 | Verdic |
| 8.5.4.3.2 | Instructional safeguards against moving parts:         | At Si                                                                                                           | N/A    |
| 8.5.4.3.3 | Disconnection from the supply                          |                                                                                                                 | N/A    |
| 8.5.4.3.4 | Cut type and test force (N):                           |                                                                                                                 | N/A    |
| 8.5.4.3.5 | Compliance                                             |                                                                                                                 | N/A    |
| 8.5.5     | High pressure lamps                                    | No such lamps provided.                                                                                         | N/A    |
|           | Explosion test                                         | 4                                                                                                               | N/A    |
| 8.5.5.3   | Glass particles dimensions (mm)                        | í st                                                                                                            | N/A    |
| 8.6       | Stability of equipment                                 |                                                                                                                 | N/A    |
| 8.6.1     | General                                                | 4. 6                                                                                                            | N/A    |
| 5         | Instructional safeguard:                               | ×                                                                                                               | N/A    |
| 8.6.2     | Static stability                                       |                                                                                                                 | N/A    |
| 8.6.2.2   | Static stability test:                                 |                                                                                                                 | N/A    |
| 8.6.2.3   | Downward force test                                    |                                                                                                                 | N/A    |
| 8.6.3     | Relocation stability                                   |                                                                                                                 | N/A    |
|           | Wheels diameter (mm):                                  |                                                                                                                 |        |
| * .       | Tilt test                                              | 2 6                                                                                                             | N/A    |
| 8.6.4     | Glass slide test                                       |                                                                                                                 | N/A    |
| 8.6.5     | Horizontal force test:                                 | t t                                                                                                             | N/A    |
| 8.7       | Equipment mounted to wall, ceiling or other struct     | ture                                                                                                            | N/A    |
| 8.7.1 🍝   | Mount means type:                                      |                                                                                                                 | N/A    |
| 8.7.2     | Test methods                                           |                                                                                                                 | N/A    |
|           | Test 1, additional downwards force (N):                | 4                                                                                                               | N/A    |
| - Liller  | Test 2, number of attachment points and test force (N) | the second se | N/A    |
|           | Test 3 Nominal diameter (mm) and applied torque (Nm)   | A A                                                                                                             | N/A    |
| 8.8       | Handles strength                                       |                                                                                                                 | N/A    |
| 8.8.1     | General                                                | No handle                                                                                                       | N/A    |
| 3.8.2     | Handle strength test                                   |                                                                                                                 | N/A    |
| X         | Number of handles                                      | 4                                                                                                               | 1      |
|           | Force applied (N):                                     |                                                                                                                 | N/A    |
| 8.9       | Wheels or casters attachment requirements              |                                                                                                                 | N/A    |
| 3.9.2     | Pull test                                              |                                                                                                                 | N/A    |
| 8.10      | Carts, stands and similar carriers                     | 7                                                                                                               | N/A    |
| 3.10.1 🤿  | General                                                | + + ×                                                                                                           | N/A    |

Page 20 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

|             | IEC 62368-1                                     |                 |         |
|-------------|-------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                              | Result - Remark | Verdict |
| 8.10.2      | Marking and instructions                        |                 | N/A     |
| 8.10.3      | Cart, stand or carrier loading test             | -               | N/A     |
| <u>````</u> | Loading force applied (N):                      |                 | N/A     |
| 8.10.4      | Cart, stand or carrier impact test              |                 | N/A     |
| 8.10.5      | Mechanical stability                            |                 | N/A     |
|             | Force applied (N):                              | ~               | N/A     |
| 8.10.6      | Thermoplastic temperature stability             |                 | N/A     |
| 8.11        | Mounting means for slide-rail mounted equipment | (SRME)          | N/A     |
| 8.11.1      | General                                         | 2° T            | N/A     |
| 8.11.2      | Requirements for slide rails                    | 4               | N/A     |
|             | Instructional Safeguard:                        |                 | N/A     |
| 8.11.3      | Mechanical strength test                        | X 7 7           | N/A     |
| 8.11.3.1    | Downward force test, force (N) applied:         | 4               | N/A     |
| 8.11.3.2    | Lateral push force test                         |                 | N/A     |
| 8.11.3.3    | Integrity of slide rail end stops               |                 | N/A     |
| 8.11.4      | Compliance                                      | 5 7             | N/A     |
| 8.12        | Telescoping or rod antennas                     | L.              | N/A     |
|             | Button/ball diameter (mm):                      | 4               |         |

| 9     | THERMAL BURN INJURY                          | × <                                             | P   |
|-------|----------------------------------------------|-------------------------------------------------|-----|
| 9.2   | Thermal energy source classifications        | x x                                             | Р   |
| 9.3   | Touch temperature limits                     | Str. I                                          | Р   |
| 9.3.1 | Touch temperatures of accessible parts:      | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) | P   |
| 9.3.2 | Test method and compliance                   | A S                                             | Р   |
| 9.4   | Safeguards against thermal energy sources    | ST.                                             | N/A |
| 9.5   | Requirements for safeguards                  |                                                 | N/A |
| 9.5.1 | Equipment safeguard                          |                                                 | N/A |
| 9.5.2 | Instructional safeguard:                     |                                                 | N/A |
| 9.6   | Requirements for wireless power transmitters | 4                                               | N/A |
| 9.6.1 | General                                      | <u>ک</u> ــــ                                   | N/A |
| 9.6.2 | Specification of the foreign objects         |                                                 | N/A |
|       | Test method and compliance:                  |                                                 | N/A |

P\_

Page 21 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause   | Requirement + Test                                                              | Result - Remark                    | Verdic   |
|----------|---------------------------------------------------------------------------------|------------------------------------|----------|
| 10.2     | Radiation energy source classification                                          |                                    | P        |
| 10.2.1   | General classification                                                          | RS1: LCD display or LED            | Р        |
|          | Lasers                                                                          |                                    |          |
| <b></b>  | Lamps and lamp systems                                                          | LCD display or LED comply with RS1 | 4        |
|          | Image projectors:                                                               |                                    |          |
| 5        | X-Ray                                                                           |                                    | 4        |
|          | Personal music player                                                           | A A                                | <u> </u> |
| 10.3     | Safeguards against laser radiation                                              |                                    | N/A      |
| A.C.     | The standard(s) equipment containing laser(s) comply                            | , t                                | N/A      |
| 10.4     | Safeguards against optical radiation from lamps LED types)                      | and lamp systems (including        | Р        |
| 10.4.1   | General requirements                                                            | LCD display or LED comply with RS1 | Р        |
|          | Instructional safeguard provided for accessible radiation level needs to exceed |                                    | N/A      |
| *        | Risk group marking and location:                                                | 7. 6                               | N/A      |
|          | Information for safe operation and installation                                 |                                    | N/A      |
| 10.4.2   | Requirements for enclosures                                                     | 1                                  | N/A      |
|          | UV radiation exposure:                                                          |                                    | N/A      |
| 10.4.3   | Instructional safeguard                                                         | 1<br>1                             | N/A      |
| 10.5     | Safeguards against X-radiation                                                  |                                    | N/A      |
| 10.5.1   | Requirements                                                                    |                                    | N/A      |
|          | Instructional safeguard for skilled persons                                     |                                    | _        |
| 10.5.3   | Maximum radiation (pA/kg)                                                       |                                    | Z        |
| 10.6     | Safeguards against acoustic energy sources                                      |                                    | N/A      |
| 10.6.1   | General                                                                         | 7                                  | N/A      |
| 10.6.2   | Classification                                                                  | at .                               | N/A      |
|          | Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):                              | A S                                | N/A      |
| (        | Unweighted RMS output voltage (mV):                                             |                                    | N/A      |
|          | Digital output signal (dBFS):                                                   |                                    | N/A      |
| 10.6.3   | Requirements for dose-based systems                                             |                                    | N/A      |
| 10.6.3.1 | General requirements                                                            |                                    |          |
| 10.6.3.2 | Dose-based warning and automatic decrease                                       | S                                  | F        |
| 10.6.3.3 | Exposure-based warning and requirements                                         |                                    |          |

#### Page 22 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

|          | IEC 62368-1                                                      |                 |         |
|----------|------------------------------------------------------------------|-----------------|---------|
| Clause   | Requirement + Test                                               | Result - Remark | Verdict |
|          | 30 s integrated exposure level (MEL30):                          |                 | N/A     |
| + /      | Warning for MEL ≥ 100 dB(A):                                     |                 | N/A     |
| 10.6.4   | Measurement methods                                              |                 | N/A     |
| 10.6.5   | Protection of persons                                            |                 | N/A     |
|          | Instructional safeguards:                                        | - 10 - 5        | N/A     |
| 10.6.6   | Requirements for listening devices (headphones, earphones, etc.) | 5               | N/A     |
| 10.6.6.1 | Corded listening devices with analogue input                     |                 | N/A     |
|          | Listening device input voltage (mV):                             |                 | N/A     |
| 10.6.6.2 | Corded listening devices with digital input                      |                 | N/A     |
| 4        | Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):          |                 | N/A     |
| 10.6.6.3 | Cordless listening devices                                       | A 4 5           | N/A     |
|          | Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):          | 5               | N/A     |

| В     | NORMAL OPERATING CONDITION TESTS, ABNO<br>CONDITION TESTS AND SINGLE FAULT CONDIT |                                                      | Ρ   |
|-------|-----------------------------------------------------------------------------------|------------------------------------------------------|-----|
| B.1   | General                                                                           | <u> </u>                                             | Р   |
| B.1.5 | Temperature measurement conditions                                                | (See appended table B.1.5)                           | Р   |
| B.2   | Normal operating conditions                                                       | 4 7                                                  | Р   |
| B.2.1 | General requirements:                                                             | (See Test Item Particulars and appended test tables) | Р   |
| 4     | Audio Amplifiers and equipment with audio amplifiers:                             | at she                                               | N/A |
| B.2.3 | Supply voltage and tolerances                                                     | 4                                                    | N/A |
| B.2.5 | Input test                                                                        | (See appended table B.2.5)                           | Р   |
| B.3   | Simulated abnormal operating conditions                                           | + 1                                                  | Р   |
| B.3.1 | General                                                                           |                                                      | Р   |
| B.3.2 | Covering of ventilation openings                                                  |                                                      | N/A |
| 5     | Instructional safeguard:                                                          |                                                      | N/A |
| B.3.3 | DC mains polarity test                                                            | * *                                                  | N/A |
| B.3.4 | Setting of voltage selector                                                       | 5                                                    | N/A |
| B.3.5 | Maximum load at output terminals                                                  |                                                      | P   |
| B.3.6 | Reverse battery polarity                                                          |                                                      | N/A |
| B.3.7 | Audio amplifier abnormal operating conditions                                     |                                                      | N/A |
| B.3.8 | Safeguards functional during and after abnormal operating conditions              | e A                                                  | N/A |

Page 23 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause  | Requirement + Test                                                       | Result - Remark                                                                                                                     | Verdic |
|---------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|
| B.4     | Simulated single fault conditions                                        |                                                                                                                                     | Р      |
| 4       |                                                                          |                                                                                                                                     | -      |
| B.4.1   | General                                                                  | r 2                                                                                                                                 | P      |
| B.4.2   | Temperature controlling device                                           |                                                                                                                                     | N/A    |
| B.4.3   | Blocked motor test                                                       |                                                                                                                                     | N/A    |
| B.4.4   | Functional insulation                                                    |                                                                                                                                     | Р      |
| B.4.4.1 | Short circuit of clearances for functional insulation                    | ~                                                                                                                                   | P      |
| B.4.4.2 | Short circuit of creepage distances for functional insulation            | the the                                                                                                                             | P      |
| B.4.4.3 | Short circuit of functional insulation on coated printed boards          | the the                                                                                                                             | N/A    |
| B.4.5   | Short-circuit and interruption of electrodes in tubes and semiconductors |                                                                                                                                     | N/A    |
| B.4.6   | Short circuit or disconnection of passive components                     | 20 P 7                                                                                                                              | N/A    |
| B.4.7   | Continuous operation of components                                       | The EUT is continuous<br>operating type and no such<br>components intended for short<br>time operation or intermittent<br>operation | N/A    |
| B.4.8   | Compliance during and after single fault conditions                      | (See appended table B.3, B.4)                                                                                                       | Р      |
| B.4.9   | Battery charging and discharging under single fault conditions           | (See Annex M)                                                                                                                       | Ρ      |
| c 🚄     | UV RADIATION                                                             |                                                                                                                                     | N/A    |
| C.1     | Protection of materials in equipment from UV rac                         | liation                                                                                                                             | N/A    |
| C.1.2   | Requirements                                                             | 2                                                                                                                                   | N/A    |
| C.1.3   | Test method                                                              |                                                                                                                                     | N/A    |
| C.2     | UV light conditioning test                                               |                                                                                                                                     | N/A    |
| C.2.1   | Test apparatus                                                           |                                                                                                                                     | N/A    |
| C.2.2   | Mounting of test samples                                                 | Ć.                                                                                                                                  | N/A    |
| C.2.3   | Carbon-arc light-exposure test                                           |                                                                                                                                     | N/A    |
| C.2.4   | Xenon-arc light-exposure test                                            |                                                                                                                                     | N/A    |
| D       | TEST GENERATORS                                                          |                                                                                                                                     | N/A    |
| D.1     | Impulse test generators                                                  |                                                                                                                                     | N/A    |
| D.2     | Antenna interface test generator                                         | <u>ک</u> کی                                                                                                                         | N/A    |
| D.3     | Electronic pulse generator                                               | A 2                                                                                                                                 | N/A    |
| E       | TEST CONDITIONS FOR EQUIPMENT CONTAINI                                   | NG AUDIO AMPLIFIERS                                                                                                                 | N/A    |
| E.1     | Electrical energy source classification for audio                        |                                                                                                                                     | N/A    |

Page 24 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause   | Requirement + Test                                             | Result - Remark                                                        | Verdic |
|----------|----------------------------------------------------------------|------------------------------------------------------------------------|--------|
| Clause   |                                                                | Result - Remark                                                        | veruic |
|          | Maximum non-clipped output power (W)                           | maximum volume                                                         |        |
| t,       | Rated load impedance (Ω)                                       |                                                                        | —      |
| <u> </u> | Open-circuit output voltage (V):                               |                                                                        |        |
|          | Instructional safeguard:                                       |                                                                        | 4      |
| E.2      | Audio amplifier normal operating conditions                    |                                                                        | N/A    |
|          | Audio signal source type                                       |                                                                        | ×-     |
| 7        | Audio output power (W):                                        |                                                                        |        |
|          | Audio output voltage (V):                                      |                                                                        | _      |
| 1        | Rated load impedance (Ω)                                       | 4                                                                      |        |
| 5        | Requirements for temperature measurement                       | A                                                                      | N/A    |
| E.3      | Audio amplifier abnormal operating conditions                  |                                                                        | N/A    |
| F        | EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS               | INSTRUCTIONAL                                                          | Р      |
| F.1      | General                                                        | A                                                                      | Р      |
|          | Language:                                                      | English.                                                               | _      |
| F.2      | Letter symbols and graphical symbols                           | ST ST                                                                  | Р      |
| F.2.1    | Letter symbols according to IEC60027-1                         |                                                                        | N/A    |
| F.2.2    | Graphic symbols according to IEC, ISO or manufacturer specific | * *                                                                    | Р      |
| F.3      | Equipment markings                                             |                                                                        | Р      |
| F.3.1 🔶  | Equipment marking locations                                    | The equipment marking is located on the surface and is easily visible. | P      |
| F.3.2    | Equipment identification markings                              | See below.                                                             | Р      |
| F.3.2.1  | Manufacturer identification                                    | See copy of marking plate                                              | Р      |
| F.3.2.2  | Model identification                                           | See copy of marking plate                                              | Р      |
| F.3.3    | Equipment rating markings                                      | See copy of marking plate                                              | Р      |
| F.3.3.1  | Equipment with direct connection to mains                      |                                                                        | N/A    |
| F.3.3.2  | Equipment without direct connection to mains                   |                                                                        | P      |
| F.3.3.3  | Nature of the supply voltage                                   |                                                                        | N/A    |
| F.3.3.4  | Rated voltage                                                  | 5                                                                      | N/A    |
| F.3.3.5  | Rated frequency:                                               | × + <                                                                  | N/A    |
| F.3.3.6  | Rated current or rated power:                                  |                                                                        | N/A    |
| F.3.3.7  | Equipment with multiple supply connections                     | Only one connection.                                                   | N/A    |
| F.3.4    | Voltage setting device                                         | No voltage setting device.                                             | N/A    |
| F.3.5    | Terminals and operating devices                                |                                                                        | N/A    |

Page 25 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

|           | IEC 62368-1                                                                                    |                                                                                                                                                                        |        |
|-----------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Clause    | Requirement + Test                                                                             | Result - Remark                                                                                                                                                        | Verdic |
| F.3.5.1   | Mains appliance outlet and socket-outlet markings                                              |                                                                                                                                                                        | N/A    |
| F.3.5.2   | Switch position identification marking                                                         | ~ ~                                                                                                                                                                    | N/A    |
| F.3.5.3   | Replacement fuse identification and rating markings                                            |                                                                                                                                                                        | N/A    |
|           | Instructional safeguards for neutral fuse                                                      |                                                                                                                                                                        | N/A    |
| F.3.5.4   | Replacement battery identification marking:                                                    | The built-in battery is<br>impossible for ordinary person<br>to replaced                                                                                               | N/A    |
| F.3.5.5   | Neutral conductor terminal                                                                     |                                                                                                                                                                        | N/A    |
| =.3.5.6   | Terminal marking location                                                                      | ~                                                                                                                                                                      | N/A    |
| F.3.6     | Equipment markings related to equipment<br>classification                                      |                                                                                                                                                                        | N/A    |
| F.3.6.1   | Class I equipment                                                                              |                                                                                                                                                                        | N/A    |
| F.3.6.1.1 | Protective earthing conductor terminal:                                                        | 7                                                                                                                                                                      | N/A    |
| F.3.6.1.2 | Protective bonding conductor terminals                                                         |                                                                                                                                                                        | N/A    |
| F.3.6.2   | Equipment class marking                                                                        | A A S                                                                                                                                                                  | N/A    |
| F.3.6.3   | Functional earthing terminal marking                                                           | 5 7                                                                                                                                                                    | N/A    |
| F.3.7     | Equipment IP rating marking                                                                    | L.                                                                                                                                                                     | N/A    |
| F.3.8     | External power supply output marking                                                           | 4                                                                                                                                                                      | N/A    |
| F.3.9     | Durability, legibility and permanence of marking                                               | All markings required are<br>easily discernible under<br>normal lighting conditions.                                                                                   | P      |
| F.3.10    | Test for permanence of markings                                                                | After rubbing test by water<br>and petroleum spirit, the<br>marking still legible; it is not<br>easily possible to remove the<br>marking plate and show no<br>curling. | P      |
| F.4       | Instructions                                                                                   |                                                                                                                                                                        | Р      |
|           | a) Information prior to installation and initial use                                           |                                                                                                                                                                        | N/A    |
| 4         | <ul> <li>Equipment for use in locations where children<br/>not likely to be present</li> </ul> |                                                                                                                                                                        | P      |
|           | c) Instructions for installation and interconnection                                           |                                                                                                                                                                        | N/A    |
|           | d) Equipment intended for use only in restricted access area                                   | t s                                                                                                                                                                    | N/A    |
|           | e) Equipment intended to be fastened in place                                                  |                                                                                                                                                                        | N/A    |
|           | f) Instructions for audio equipment terminals                                                  |                                                                                                                                                                        | N/A    |
|           | g) Protective earthing used as a safeguard                                                     |                                                                                                                                                                        | N/A    |

#### Page 26 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

|         | IEC 62368-1                                                                                      | ~ ~             | 1      |
|---------|--------------------------------------------------------------------------------------------------|-----------------|--------|
| Clause  | Requirement + Test                                                                               | Result - Remark | Verdic |
| (       | h) Protective conductor current exceeding ES2<br>limits                                          |                 | N/A    |
|         | i) Graphic symbols used on equipment                                                             | 4               | N/A    |
| 4       | j) Permanently connected equipment not provided with all-pole mains switch                       | t At            | N/A    |
|         | k) Replaceable components or modules providing safeguard function                                | AND C           | N/A    |
| ~       | I) Equipment containing insulating liquid                                                        | . [             | N/A    |
|         | m) Installation instructions for outdoor equipment                                               |                 | N/A    |
| F.5     | Instructional safeguards                                                                         | 2, 4            | N/A    |
| G       | COMPONENTS                                                                                       |                 | Р      |
| G.1     | Switches                                                                                         |                 | N/A    |
| G.1.1   | General                                                                                          | A 4 4           | N/A    |
| G.1.2   | Ratings, endurance, spacing, maximum load                                                        | 4               | N/A    |
| G.1.3   | Test method and compliance                                                                       |                 | N/A    |
| G.2     | Relays                                                                                           | X X X           | N/A    |
| G.2.1   | Requirements                                                                                     |                 | N/A    |
| G.2.2   | Overload test                                                                                    | Į.              | N/A    |
| G.2.3   | Relay controlling connectors supplying power to other equipment                                  | * *             | N/A    |
| G.2.4   | Test method and compliance                                                                       |                 | N/A    |
| G.3     | Protective devices                                                                               |                 | N/A    |
| G.3.1   | Thermal cut-offs                                                                                 |                 | N/A    |
|         | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | 4               | N/A    |
| 4       | Thermal cut-outs tested as part of the equipment as indicated in c)                              | at shit         | N/A    |
| G.3.1.2 | Test method and compliance                                                                       | Str. I          | N/A    |
| G.3.2   | Thermal links                                                                                    |                 | N/A    |
| G.3.2.1 | a) Thermal links tested separately according to IEC 60691 with specifics                         | the state       | N/A    |
|         | b) Thermal links tested as part of the equipment                                                 | S <sup>V</sup>  | N/A    |
| G.3.2.2 | Test method and compliance                                                                       |                 | N/A    |
| G.3.3   | PTC thermistors                                                                                  | A 4             | N/A    |
| G.3.4   | Overcurrent protection devices                                                                   |                 | N/A    |
| G.3.5   | Safeguards components not mentioned in G.3.1 to G.3.4                                            |                 | N/A    |

#### Page 27 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause    | Requirement + Test                                                                           | Result - Remark | Verdic |
|-----------|----------------------------------------------------------------------------------------------|-----------------|--------|
|           |                                                                                              |                 | Verdie |
| G.3.5.1   | Non-resettable devices suitably rated and marking provided                                   |                 | N/A    |
| G.3.5.2   | Single faults conditions:                                                                    | 2               | N/A    |
| G.4       | Connectors                                                                                   | ×               | N/A    |
| G.4.1     | Spacings                                                                                     | A St            | N/A    |
| G.4.2     | Mains connector configuration:                                                               | Str.            | N/A    |
| G.4.3     | Plug is shaped that insertion into mains socket-<br>outlets or appliance coupler is unlikely |                 | N/A    |
| G.5       | Wound components                                                                             |                 | Р      |
| G.5.1     | Wire insulation in wound components                                                          | 4. 1            | N/A    |
| G.5.1.2   | Protection against mechanical stress                                                         | ×               | N/A    |
| G.5.2     | Endurance test                                                                               |                 | N/A    |
| G.5.2.1   | General test requirements                                                                    | 1 T C           | N/A    |
| G.5.2.2   | Heat run test                                                                                |                 | N/A    |
|           | Test time (days per cycle)                                                                   |                 |        |
|           | Test temperature ( C):                                                                       |                 |        |
| G.5.2.3   | Wound components supplied from the mains                                                     |                 | N/A    |
| G.5.2.4   | No insulation breakdown                                                                      | L.C.            | N/A    |
| G.5.3     | Transformers                                                                                 | × <             | N/A    |
| G.5.3.1   | Compliance method:                                                                           |                 | N/A    |
| <u>``</u> | Position:                                                                                    |                 | N/A    |
|           | Method of protection:                                                                        |                 | N/A    |
| G.5.3.2   | Insulation                                                                                   | 5               | N/A    |
|           | Protection from displacement of windings:                                                    |                 |        |
| G.5.3.3   | Transformer overload tests                                                                   |                 | N/A    |
| G.5.3.3.1 | Test conditions                                                                              |                 | N/A    |
| G.5.3.3.2 | Winding temperatures                                                                         | 2               | N/A    |
| G.5.3.3.3 | Winding temperatures - alternative test method                                               | 4               | N/A    |
| G.5.3.4   | Transformers using FIW                                                                       | A S             | N/A    |
| G.5.3.4.1 | General                                                                                      | Str.            | N/A    |
| 15        | FIW wire nominal diameter:                                                                   |                 |        |
| G.5.3.4.2 | Transformers with basic insulation only                                                      | A 4             | N/A    |
| G.5.3.4.3 | Transformers with double insulation or reinforced insulation                                 |                 | N/A    |
| G.5.3.4.4 | Transformers with FIW wound on metal or ferrite core                                         |                 | N/A    |

Page 28 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

|           | IEC 62368-1                                                                 | が<br>、<br>よ<br>、                             |        |
|-----------|-----------------------------------------------------------------------------|----------------------------------------------|--------|
| Clause    | Requirement + Test                                                          | Result - Remark                              | Verdic |
| G.5.3.4.5 | Thermal cycling test and compliance                                         | * *                                          | N/A    |
| G.5.3.4.6 | Partial discharge test                                                      |                                              | N/A    |
| G.5.3.4.7 | Routine test                                                                |                                              | N/A    |
| G.5.4     | Motors                                                                      |                                              | P      |
| G.5.4.1   | General requirements                                                        |                                              | Р      |
| G.5.4.2   | Motor overload test conditions                                              | ~                                            | N/A    |
| G.5.4.3   | Running overload test                                                       | .L.                                          | N/A    |
| G.5.4.4.2 | Locked-rotor overload test                                                  |                                              | N/A    |
| ×         | Test duration (days)                                                        | <u> </u>                                     |        |
| G.5.4.5   | Running overload test for DC motors                                         |                                              | N/A    |
| G.5.4.5.2 | Tested in the unit                                                          |                                              | N/A    |
| G.5.4.5.3 | Alternative method                                                          | $\mathcal{A} \xrightarrow{\sim} \mathcal{A}$ | N/A    |
| G.5.4.6   | Locked-rotor overload test for DC motors                                    | Ś                                            | Р      |
| G.5.4.6.2 | Tested in the unit                                                          |                                              | N/A    |
|           | Maximum Temperature                                                         | X X X                                        | N/A    |
| G.5.4.6.3 | Alternative method                                                          |                                              | Р      |
| G.5.4.7   | Motors with capacitors                                                      |                                              | N/A    |
| G.5.4.8   | Three-phase motors                                                          |                                              | N/A    |
| G.5.4.9   | Series motors                                                               |                                              | N/A    |
|           | Operating voltage:                                                          | × ×                                          |        |
| G.6       | Wire Insulation                                                             |                                              | N/A    |
| G.6.1     | General                                                                     |                                              | N/A    |
| G.6.2     | Enamelled winding wire insulation                                           |                                              | N/A    |
| G.7       | Mains supply cords                                                          |                                              | N/A    |
| G.7.1     | General requirements                                                        |                                              | N/A    |
|           | Туре                                                                        | 5                                            | -      |
| G.7.2     | Cross sectional area (mm <sup>2</sup> or AWG):                              | .L.                                          | N/A    |
| G.7.3     | Cord anchorages and strain relief for non-<br>detachable power supply cords |                                              | N/A    |
| G.7.3.2   | Cord strain relief                                                          | 5                                            | N/A    |
| G.7.3.2.1 | Requirements                                                                | .L. A                                        | N/A    |
|           | Strain relief test force (N):                                               |                                              | N/A    |
| G.7.3.2.2 | Strain relief mechanism failure                                             |                                              | N/A    |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm):                              |                                              | N/A    |
| G.7.3.2.4 | Strain relief and cord anchorage material                                   |                                              | N/A    |

Page 29 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause    | Requirement + Test                                                                             | Result - Remark | Verdict |
|-----------|------------------------------------------------------------------------------------------------|-----------------|---------|
| G.7.4     | Cord Entry                                                                                     |                 | N/A     |
| G.7.5     | Non-detachable cord bend protection                                                            |                 | N/A     |
| G.7.5.1   | Requirements                                                                                   |                 | N/A     |
| G.7.5.1   |                                                                                                | ×               |         |
| G.7.5.2   | Test method and compliance         Overall diameter or minor overall dimension, D         (mm) | ALL AND         | N/A     |
|           | Radius of curvature after test (mm):                                                           | ~               | 4       |
| G.7.6     | Supply wiring space                                                                            | + 4             | N/A     |
| G.7.6.1   | General requirements                                                                           | Nº S            | N/A     |
| G.7.6.2   | Stranded wire                                                                                  |                 | N/A     |
| G.7.6.2.1 | Requirements                                                                                   |                 | N/A     |
| G.7.6.2.2 | Test with 8 mm strand                                                                          | A & S           | N/A     |
| G.8       | Varistors                                                                                      |                 | N/A     |
| G.8.1     | General requirements                                                                           | .1              | N/A     |
| G.8.2     | Safeguards against fire                                                                        | + + 1           | N/A     |
| G.8.2.1   | General                                                                                        |                 | N/A     |
| G.8.2.2   | Varistor overload test                                                                         |                 | N/A     |
| G.8.2.3   | Temporary overvoltage test                                                                     | S. C.           | N/A     |
| G.9       | Integrated circuit (IC) current limiters                                                       | A               | N/A     |
| G.9.1     | Requirements                                                                                   | SN I            | N/A     |
| ~ ~       | IC limiter output current (max. 5A)                                                            |                 |         |
|           | Manufacturers' defined drift                                                                   |                 |         |
| G.9.2     | Test Program                                                                                   | 4               | N/A     |
| G.9.3     | Compliance                                                                                     | ×               | N/A     |
| G.10      | Resistors                                                                                      | * *             | N/A     |
| G.10.1    | General                                                                                        |                 | N/A     |
| G.10.2    | Conditioning                                                                                   |                 | N/A     |
| G.10.3    | Resistor test                                                                                  |                 | N/A     |
| G.10.4    | Voltage surge test                                                                             |                 | N/A     |
| G.10.5    | Impulse test                                                                                   | 5               | N/A     |
| G.10.6    | Overload test                                                                                  | .L. &           | N/A     |
| G.11      | Capacitors and RC units                                                                        |                 | N/A     |
| G.11.1    | General requirements                                                                           |                 | N/A     |
| G.11.2    | Conditioning of capacitors and RC units                                                        |                 | N/A     |
| G.11.3    | Rules for selecting capacitors                                                                 |                 | N/A     |

Page 30 of 79

Report No. S23083004604001

## NTEK 北测<sup>®</sup>

| Clause   | Requirement + Test                                                                           | Result - Remark | Verdict          |
|----------|----------------------------------------------------------------------------------------------|-----------------|------------------|
|          |                                                                                              | Result - Remark |                  |
| G.12     | Optocouplers                                                                                 |                 | N/A              |
| * <      | Optocouplers comply with IEC 60747-5-5 with specifics                                        | 4               | N/A              |
| 7        | Type test voltage V <sub>ini, a</sub> :                                                      | A CONTRACT      | 4                |
|          | Routine test voltage, V <sub>ini, b</sub> :                                                  | At S            |                  |
| G.13     | Printed boards                                                                               | ST I            | Р                |
| G.13.1   | General requirements                                                                         |                 | Р                |
| G.13.2   | Uncoated printed boards                                                                      |                 | P                |
| G.13.3   | Coated printed boards                                                                        | 14 A            | N/A              |
| G.13.4   | Insulation between conductors on the same inner surface                                      | *               | N/A              |
| G.13.5   | Insulation between conductors on different surfaces                                          | A A A           | N/A              |
| 4        | Distance through insulation:                                                                 |                 | N/A              |
|          | Number of insulation layers (pcs):                                                           |                 | _                |
| G.13.6   | Tests on coated printed boards                                                               |                 | N/A              |
| G.13.6.1 | Sample preparation and preliminary inspection                                                |                 | N/A              |
| G.13.6.2 | Test method and compliance                                                                   | · ~ ~           | N/A              |
| G.14     | Coating on components terminals                                                              | 29              | N/A              |
| G.14.1   | Requirements:                                                                                | * <             | N/A              |
| G.15     | Pressurized liquid filled components                                                         |                 | N/A              |
| G.15.1   | Requirements                                                                                 |                 | N/A              |
| G.15.2   | Test methods and compliance                                                                  |                 | N/A              |
| G.15.2.1 | Hydrostatic pressure test                                                                    | 5               | N/A              |
| G.15.2.2 | Creep resistance test                                                                        |                 | N/A              |
| G.15.2.3 | Tubing and fittings compatibility test                                                       |                 | N/A              |
| G.15.2.4 | Vibration test                                                                               |                 | N/A              |
| G.15.2.5 | Thermal cycling test                                                                         | 4               | N/A              |
| G.15.2.6 | Force test                                                                                   | A .             | N/A              |
| G.15.3   | Compliance                                                                                   | * 5             | N/A              |
| G.16     | IC including capacitor discharge function (ICX)                                              |                 | N/A              |
| G.16.1   | Condition for fault tested is not required                                                   |                 | N/A              |
| 2        | ICX with associated circuitry tested in equipment                                            | <u>ک</u> ای     | N/A              |
|          | ICX tested separately                                                                        | A 4             | N/A              |
| G.16.2   | Tests                                                                                        |                 | N/A              |
| 4        | Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test: | t to she        | - <del>-</del> - |

Page 31 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

|         | IEC 62368-1                                                                                            | <b>次 ふ</b>      |         |
|---------|--------------------------------------------------------------------------------------------------------|-----------------|---------|
| Clause  | Requirement + Test                                                                                     | Result - Remark | Verdict |
|         | Mains voltage that impulses to be superimposed on                                                      |                 | -       |
| × 4     | Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test             | 4               |         |
| G.16.3  | Capacitor discharge test:                                                                              |                 | N/A     |
| Н       | CRITERIA FOR TELEPHONE RINGING SIGNALS                                                                 |                 | N/A     |
| H.1 📈   | General                                                                                                | ~               | N/A     |
| H.2     | Method A                                                                                               |                 | N/A     |
| H.3     | Method B                                                                                               |                 | N/A     |
| H.3.1   | Ringing signal                                                                                         | 4. 7            | N/A     |
| H.3.1.1 | Frequency (Hz):                                                                                        | ×               |         |
| H.3.1.2 | Voltage (V)                                                                                            |                 | _ •     |
| H.3.1.3 | Cadence; time (s) and voltage (V):                                                                     | Ke C C          |         |
| H.3.1.4 | Single fault current (mA)::                                                                            |                 |         |
| H.3.2   | Tripping device and monitoring voltage                                                                 |                 | N/A     |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage                                        |                 | N/A     |
| H.3.2.2 | Tripping device                                                                                        |                 | N/A     |
| H.3.2.3 | Monitoring voltage (V):                                                                                |                 | N/A     |
| J       | INSULATED WINDING WIRES FOR USE WITHOUT IN INSULATION                                                  | NTERLEAVED      | N/A     |
| J.1 🔶   | General                                                                                                |                 | N/A     |
|         | Winding wire insulation:                                                                               |                 |         |
|         | Solid round winding wire, diameter (mm):                                                               | 4               | N/A     |
| - Arth  | Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm <sup>2</sup> ): | L At            | N/A     |
| J.2/J.3 | Tests and Manufacturing                                                                                |                 | N/A     |
| к       | SAFETY INTERLOCKS                                                                                      | 4               | N/A     |
| K.1     | General requirements                                                                                   | A CONTRACTOR    | N/A     |
|         | Instructional safeguard:                                                                               | * *             | N/A     |
| K.2     | Components of safety interlock safeguard mechani                                                       | sm              | N/A     |
| K.3     | Inadvertent change of operating mode                                                                   |                 | N/A     |
| K.4     | Interlock safeguard override                                                                           | <u>ب</u> ب      | N/A     |
| K.5     | Fail-safe                                                                                              | A 4             | N/A     |
| K.5.1   | Under single fault condition                                                                           |                 | N/A     |
| K.6     | Mechanically operated safety interlocks                                                                |                 | N/A     |

#### Page 32 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause   | Requirement + Test                                                         | Result - Remark                                 | Verdic |
|----------|----------------------------------------------------------------------------|-------------------------------------------------|--------|
|          |                                                                            |                                                 | Ż      |
| K.6.1    | Endurance requirement                                                      |                                                 | N/A    |
| K.6.2    | Test method and compliance                                                 |                                                 | N/A    |
| К.7      | Interlock circuit isolation                                                |                                                 | N/A    |
| K.7.1    | Separation distance for contact gaps & interlock circuit elements          | A Star                                          | N/A    |
|          | In circuit connected to mains, separation distance for contact gaps (mm)   | AN I                                            | N/A    |
| 7        | In circuit isolated from mains, separation distance for contact gaps (mm): | t t                                             | N/A    |
|          | Electric strength test before and after the test of K.7.2                  | 21 6                                            | N/A    |
| K.7.2    | Overload test, Current (A):                                                |                                                 | N/A    |
| K.7.3    | Endurance test                                                             | x x x                                           | N/A    |
| K.7.4    | Electric strength test                                                     |                                                 | N/A    |
| L        | DISCONNECT DEVICES                                                         |                                                 | N/A    |
| L.1      | General requirements                                                       | Not directly connected to the mains             | N/A    |
| L.2      | Permanently connected equipment                                            | 5 2                                             | N/A    |
| L.3      | Parts that remain energized                                                | L.                                              | N/A    |
| L.4      | Single-phase equipment                                                     | 4                                               | N/A    |
| L.5      | Three-phase equipment                                                      |                                                 | N/A    |
| L.6      | Switches as disconnect devices                                             | Υ Υ V                                           | N/A    |
| L.7      | Plugs as disconnect devices                                                |                                                 | N/A    |
| L.8      | Multiple power sources                                                     |                                                 | N/A    |
|          | Instructional safeguard:                                                   |                                                 | N/A    |
| м        | EQUIPMENT CONTAINING BATTERIES AND THE                                     | IR PROTECTION CIRCUITS                          | Р      |
| M.1      | General requirements                                                       |                                                 | Р      |
| M.2      | Safety of batteries and their cells                                        | ~                                               | Р      |
| M.2.1    | Batteries and their cells comply with relevant IEC standards               | IEC 62133-2: 2017<br>(See appended table 4.1.2) | P      |
| M.3      | Protection circuits for batteries provided within the equipment            | All A                                           | Р      |
| M.3.1    | Requirements                                                               |                                                 | Р      |
| M.3.2    | Test method                                                                |                                                 | Р      |
|          | Overcharging of a rechargeable battery                                     | (See appended table M.3)                        | Р      |
|          | Excessive discharging                                                      | (See appended table M.3)                        | Р      |
| <u>ک</u> | Unintentional charging of a non-rechargeable battery                       |                                                 | N/A    |

Page 33 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause  | Requirement + Test                                                                                | Result - Remark                                                                                   | Verdic |
|---------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------|
|         | Reverse charging of a rechargeable battery                                                        | Built-in battery used, reverse charging is prevented                                              | N/A    |
| M.3.3   | Compliance                                                                                        | (See appended table M.3)                                                                          | Р      |
| M.4     | Additional safeguards for equipment containing a battery                                          | a portable secondary lithium                                                                      | Р      |
| M.4.1   | General                                                                                           |                                                                                                   | Р      |
| M.4.2   | Charging safeguards                                                                               | 4                                                                                                 | P      |
| M.4.2.1 | Requirements                                                                                      |                                                                                                   | Р      |
| M.4.2.2 | Compliance                                                                                        | (See appended table M.4.2)                                                                        | Р      |
| M.4.3   | Fire enclosure                                                                                    | V-0 enclosure used                                                                                | Р      |
| M.4.4   | Drop test of equipment containing a secondary lithium battery                                     |                                                                                                   | P      |
| M.4.4.2 | Preparation and procedure for the drop test                                                       |                                                                                                   | Р      |
| M.4.4.3 | Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%):: | Three times.<br>After a drop test, the voltage<br>difference within 24 hours did<br>not exceed 5% | Р      |
| M.4.4.4 | Check of the charge/discharge function                                                            | Charging normally                                                                                 | Р      |
| M.4.4.5 | Charge / discharge cycle test                                                                     | Discharging normally                                                                              | Р      |
| M.4.4.6 | Compliance                                                                                        | 4                                                                                                 | Р      |
| M.5     | Risk of burn due to short-circuit during carrying                                                 |                                                                                                   | N/A    |
| M.5.1 💉 | Requirement                                                                                       | × ×                                                                                               | N/A    |
| M.5.2   | Test method and compliance                                                                        | * 5                                                                                               | N/A    |
| M.6     | Safeguards against short-circuits                                                                 |                                                                                                   | Р      |
| M.6.1   | External and internal faults                                                                      |                                                                                                   | Р      |
| M.6.2   | Compliance                                                                                        | Has been conducted on the battery as part of compliance with IEC 62133-2: 2017.                   | Р      |
| М.7     | Risk of explosion from lead acid and NiCd batter                                                  | ies 🦿                                                                                             | N/A    |
| M.7.1   | Ventilation preventing explosive gas concentration                                                | t .                                                                                               | N/A    |
|         | Calculated hydrogen generation rate:                                                              |                                                                                                   | N/A    |
| M.7.2   | Test method and compliance                                                                        | SV i                                                                                              | N/A    |
|         | Minimum air flow rate, Q (m <sup>3</sup> /h):                                                     |                                                                                                   | N/A    |
| M.7.3   | Ventilation tests                                                                                 | × 4                                                                                               | N/A    |
| M.7.3.1 | General                                                                                           |                                                                                                   | N/A    |
| M.7.3.2 | Ventilation test – alternative 1                                                                  | <u> </u>                                                                                          | N/A    |
|         | Hydrogen gas concentration (%)                                                                    |                                                                                                   | N/A    |

Page 34 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause  | Requirement + Test                                                                      | Result - Remark               | Verdic     |
|---------|-----------------------------------------------------------------------------------------|-------------------------------|------------|
| M.7.3.3 | Ventilation test – alternative 2                                                        |                               | N/A        |
|         | Obtained hydrogen generation rate:                                                      |                               | N/A        |
| M.7.3.4 | Ventilation test – alternative 3                                                        |                               | N/A        |
|         | Hydrogen gas concentration (%):                                                         |                               | N/A        |
| M.7.4   | Marking                                                                                 |                               | N/A        |
| M.8     | Protection against internal ignition from externative with aqueous electrolyte          | al spark sources of batteries | N/A        |
| M.8.1   | General                                                                                 |                               | N/A        |
| M.8.2   | Test method                                                                             | - 1                           | N/A        |
| M.8.2.1 | General                                                                                 |                               | N/A        |
| M.8.2.2 | Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):                            |                               | <b>t</b> – |
| M.8.2.3 | Correction factors:                                                                     | A 4 5                         | _          |
| M.8.2.4 | Calculation of distance d (mm):                                                         | 2                             |            |
| M.9     | Preventing electrolyte spillage                                                         |                               | N/A        |
| M.9.1   | Protection from electrolyte spillage                                                    |                               | N/A        |
| M.9.2   | Tray for preventing electrolyte spillage                                                | No No C                       | N/A        |
| M.10    | Instructions to prevent reasonably foreseeable misuse                                   | E L                           | Р          |
|         | Instructional safeguard:                                                                | Stated in user manual.        | Р          |
| N       | ELECTROCHEMICAL POTENTIALS                                                              |                               | N/A        |
| 2       | Material(s) used                                                                        |                               |            |
| 0       | MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES                                        |                               | N/A        |
|         | Value of <i>X</i> (mm):                                                                 | 4                             | —          |
| P       | SAFEGUARDS AGAINST CONDUCTIVE OBJEC                                                     | TS                            | N/A        |
| P.1     | General                                                                                 |                               | N/A        |
| P.2     | Safeguards against entry or consequences of e                                           | entry of a foreign            | N/A        |
| P.2.1   | General                                                                                 | 2                             | N/A        |
| P.2.2   | Safeguards against entry of a foreign object                                            |                               | N/A        |
|         | Location and Dimensions (mm)                                                            | A 2                           |            |
| P.2.3   | Safeguards against the consequences of entry of a foreign object                        |                               | N/A        |
| P.2.3.1 | Safeguard requirements                                                                  | × *                           | N/A        |
|         | The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment |                               | N/A        |
|         | Transportable equipment with metalized plastic parts                                    |                               | N/A        |

Page 35 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

|         | IEC 62368-1                                         | A &                          | 1       |
|---------|-----------------------------------------------------|------------------------------|---------|
| Clause  | Requirement + Test                                  | Result - Remark              | Verdic  |
| P.2.3.2 | Consequence of entry test:                          |                              | N/A     |
| P.3     | Safeguards against spillage of internal liquids     |                              | N/A     |
| P.3.1   | General                                             |                              | N/A     |
| P.3.2   | Determination of spillage consequences              |                              | N/A     |
| P.3.3   | Spillage safeguards                                 |                              | N/A     |
| P.3.4   | Compliance                                          | 2                            | N/A     |
| P.4     | Metallized coatings and adhesives securing parts    | S                            | N/A     |
| P.4.1   | General                                             |                              | N/A     |
| P.4.2   | Tests                                               | 5 6                          | N/A     |
|         | Conditioning, T <sub>C</sub> (°C):                  |                              | _       |
|         | Duration (weeks):                                   |                              |         |
| Q       | CIRCUITS INTENDED FOR INTERCONNECTION               |                              | Р       |
| Q.1     | Limited power sources                               | 2                            | Р       |
| Q.1.1   | Requirements                                        |                              | N/A     |
| -       | a) Inherently limited output                        |                              | N/A     |
| .L-     | b) Impedance limited output                         | 5 6                          | N/A     |
|         | c) Regulating network limited output                |                              | N/A     |
|         | d) Overcurrent protective device limited output     | 4                            | Р       |
|         | e) IC current limiter complying with G.9            |                              | N/A     |
| Q.1.2   | Test method and compliance:                         | (see appended table Annex Q) | P       |
|         | Current rating of overcurrent protective device (A) | Star 6                       | N/A     |
| Q.2     | Test for external circuits – paired conductor cable | 1. A                         | N/A     |
|         | Maximum output current (A)                          |                              | N/A     |
|         | Current limiting method:                            | 5                            |         |
| R       | LIMITED SHORT CIRCUIT TEST                          | Ļ                            | N/A     |
| R.1     | General                                             |                              | N/A     |
| R.2     | Test setup                                          |                              | N/A     |
| ¥       | Overcurrent protective device for test:             | 2                            | <u></u> |
| R.3     | Test method                                         |                              | N/A     |
|         | Cord/cable used for test:                           |                              |         |
| R.4     | Compliance                                          |                              | N/A     |

Page 36 of 79

## NTEK 北测<sup>®</sup>

Report No. S23083004604001

| •      | IEC 62368-1                                                                                       |                          | 1      |
|--------|---------------------------------------------------------------------------------------------------|--------------------------|--------|
| Clause | Requirement + Test                                                                                | Result - Remark          | Verdic |
| S      | TESTS FOR RESISTANCE TO HEAT AND FIRE                                                             | * 5                      | N/A    |
| \$.1   | Flammability test for fire enclosures and fire bar where the steady state power does not exceed 4 |                          | N/A    |
|        | Samples, material                                                                                 | ×                        | 4      |
|        | Wall thickness (mm):                                                                              | A S                      | _      |
|        | Conditioning ( C):                                                                                |                          |        |
|        | Test flame according to IEC 60695-11-5 with conditions as set out                                 | + A                      | N/A    |
|        | - Material not consumed completely                                                                | R S                      | N/A    |
|        | - Material extinguishes within 30s                                                                | 6                        | N/A    |
| ~      | - No burning of layer or wrapping tissue                                                          | 1. A                     | N/A    |
| S.2    | Flammability test for fire enclosure and fire barri                                               | er integrity             | N/A    |
|        | Samples, material:                                                                                | ST T                     |        |
|        | Wall thickness (mm):                                                                              |                          |        |
|        | Conditioning ( C):                                                                                |                          | _      |
| S.3    | Flammability test for the bottom of a fire enclosu                                                | ire 🗸 🤟                  | N/A    |
| S.3.1  | Mounting of samples                                                                               | 6. 2                     | N/A    |
| S.3.2  | Test method and compliance                                                                        |                          | N/A    |
|        | Mounting of samples:                                                                              | t t                      |        |
|        | Wall thickness (mm):                                                                              |                          |        |
| S.4 🔶  | Flammability classification of materials                                                          |                          | N/A    |
| S.5    | Flammability test for fire enclosures and fire bar where the steady state power exceeding 4 000 W |                          | N/A    |
|        | Samples, material:                                                                                |                          | _      |
|        | Wall thickness (mm):                                                                              |                          | Z      |
|        | Conditioning ( C):                                                                                | 7                        | _      |
| т      | MECHANICAL STRENGTH TESTS                                                                         | 4                        | P      |
| T.1    | General                                                                                           | A.                       | Р      |
| Т.2    | Steady force test, 10 N:                                                                          | * *                      | N/A    |
| Т.3    | Steady force test, 30 N:                                                                          | 5                        | N/A    |
| т.4    | Steady force test, 100 N:                                                                         | (See appended table T.4) | Р      |
| Т.5    | Steady force test, 250 N:                                                                         |                          | N/A    |
| T.6    | Enclosure impact test                                                                             |                          | N/A    |
|        | Fall test                                                                                         | 5                        | N/A    |
|        | Swing test                                                                                        |                          | N/A    |

Page 37 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause  | Requirement + Test                                                                                | Result - Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Verdic |
|---------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| T.7     | Drop test:                                                                                        | (See appended table T.7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Р      |
| T.8     | Stress relief test                                                                                | (See appended table T.8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Р      |
| т.9     | Glass Impact Test                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| T.10    | Glass fragmentation test                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
|         | Number of particles counted                                                                       | No such glass provided.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | N/A    |
| T.11 💉  | Test for telescoping or rod antennas                                                              | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A    |
| Ċ.      | Torque value (Nm)                                                                                 | No such antennas provided.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N/A    |
| U       | MECHANICAL STRENGTH OF CATHODE RAY TU<br>AGAINST THE EFFECTS OF IMPLOSION                         | BES (CRT) AND PROTECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A    |
| U.1     | General                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
|         | Instructional safeguard :                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| U.2     | Test method and compliance for non-intrinsically                                                  | protected CRTs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N/A    |
| U.3     | Protective screen                                                                                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A    |
| V       | DETERMINATION OF ACCESSIBLE PARTS                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Р      |
| V.1     | Accessible parts of equipment                                                                     | the the second s | Р      |
| V.1.1   | General                                                                                           | S. S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Р      |
| V.1.2   | Surfaces and openings tested with jointed test probes                                             | L. L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A    |
| V.1.3   | Openings tested with straight unjointed test probes                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| V.1.4   | Plugs, jacks, connectors tested with blunt probe                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| V.1.5 🔷 | Slot openings tested with wedge probe                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| V.1.6   | Terminals tested with rigid test wire                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Р      |
| V.2     | Accessible part criterion                                                                         | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Р      |
| ×       | ALTERNATIVE METHOD FOR DETERMINING CLE<br>IN CIRCUITS CONNECTED TO AN AC MAINS NOT<br>(300 V RMS) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
|         | Clearance                                                                                         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A    |
| Υ       | CONSTRUCTION REQUIREMENTS FOR OUTDOO                                                              | RENCLOSURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N/A    |
| Y.1     | General                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| Y.2     | Resistance to UV radiation                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| Y.3     | Resistance to corrosion                                                                           | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A    |
| Y.3     | Resistance to corrosion                                                                           | × ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N/A    |
| Y.3.1   | Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |
| Y.3.2   | Test apparatus                                                                                    | 4°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N/A    |
| Y.3.3   | Water – saturated sulphur dioxide atmosphere                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A    |

Page 38 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

|           | IEC 62368-1                                        |                 |        |
|-----------|----------------------------------------------------|-----------------|--------|
| Clause    | Requirement + Test                                 | Result - Remark | Verdic |
| Y.3.4     | Test procedure:                                    | t st            | N/A    |
| Y.3.5     | Compliance                                         |                 | N/A    |
| Y.4       | Gaskets                                            |                 | N/A    |
| Y.4.1     | General                                            |                 | N/A    |
| Y.4.2     | Gasket tests                                       |                 | N/A    |
| Y.4.3     | Tensile strength and elongation tests              | 4               | N/A    |
| 4         | Alternative test methods:                          |                 | N/A    |
| Y.4.4     | Compression test                                   |                 | N/A    |
| Y.4.5     | Oil resistance                                     | 2° 7            | N/A    |
| Y.4.6     | Securing means                                     |                 | N/A    |
| Y.5       | Protection of equipment within an outdoor enclosur | e               | N/A    |
| Y.5.1     | General                                            | X               | N/A    |
| Y.5.2     | Protection from moisture                           | ~               | N/A    |
|           | Relevant tests of IEC 60529 or Y.5.3               | ×               | N/A    |
| Y.5.3     | Water spray test                                   | A A S           | N/A    |
| Y.5.4     | Protection from plants and vermin                  |                 | N/A    |
| Y.5.5     | Protection from excessive dust                     |                 | N/A    |
| Y.5.5.1   | General                                            | ~ ~             | N/A    |
| Y.5.5.2   | IP5X equipment                                     |                 | N/A    |
| Y.5.5.3 💉 | IP6X equipment                                     | 4. X            | N/A    |
| Y.6       | Mechanical strength of enclosures                  |                 | N/A    |
| Y.6.1     | General                                            |                 | N/A    |
| Y.6.2     | Impact test:                                       |                 | N/A    |

#### Page 39 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

|                       |                         | IEC                                      | 62368-1         |          |                    |                                  |          |
|-----------------------|-------------------------|------------------------------------------|-----------------|----------|--------------------|----------------------------------|----------|
| Clause                | Requirement + Test      | ACC.                                     | Result - Remark |          |                    | Verdict                          |          |
| 5.2                   | TABLE: Classificat      | ion of electrical e                      | nergy sour      | ces      | ,L                 | Ŕ                                | Р        |
| Supply Location (e.g. |                         | Test conditions                          |                 | Parar    | meters             | ~                                | ES Class |
| Voltage               | circuit<br>designation) | to the                                   | U (V)           | I (mA)   | Type <sup>1)</sup> | Additional<br>Info <sup>2)</sup> | S.C.     |
| 5dc                   | Input circuit           | Normal                                   | 5rms            |          | SS                 | DC                               | ES1      |
|                       | 5                       | Abnormal:                                |                 | <u> </u> |                    |                                  |          |
|                       |                         | Single fault:                            | - 4             |          |                    |                                  |          |
| Full charge           |                         | Normal                                   | 4.45Vrms        |          | SS                 | DC                               | ES1      |
| battery               | output                  | Abnormal: over<br>load                   |                 | F - 4    |                    | - ' -                            |          |
|                       |                         | Single fault:<br>Battery B1- to P-<br>SC | 4.45Vrms        |          | SS                 | DC                               |          |

Supplementary information:

1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.

2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

3) SC=Short Circuit, OC=Open Circuit.

| 5.4.1.8    | TABLE: Working volta | N/A                                          |                     |                   |          |
|------------|----------------------|----------------------------------------------|---------------------|-------------------|----------|
| Location   | + 5                  | RMS voltage<br>(V)                           | Peak voltage<br>(V) | Frequency<br>(Hz) | Comments |
| 🔨          |                      |                                              |                     | 4-                | <u></u>  |
|            |                      | <u> -                                   </u> |                     | -*                | <u> </u> |
| Supplement | ary information:     | ÷                                            |                     |                   |          |

| 5.4.1.10.2 TABL     | E: Vicat soft | 4                      | N/A            |                                              |         |  |  |  |
|---------------------|---------------|------------------------|----------------|----------------------------------------------|---------|--|--|--|
| Method              |               |                        | ISO 306 / B50  |                                              | Ť       |  |  |  |
| Object/ Part No./Ma | aterial       | Manufacturer/trademark | Thickness (mm) | T softeni                                    | ng (°C) |  |  |  |
| <u>_</u> C          |               | ×                      |                | <u> </u>                                     | 7       |  |  |  |
| - 6                 |               | - <u>`</u>             | 24             |                                              |         |  |  |  |
| Supplementary info  | rmation:      |                        | 4              |                                              | 1       |  |  |  |
|                     |               |                        |                | <u>+                                    </u> |         |  |  |  |

| 5.4.1.10.3  | TABLE: Ball pressure test of thermoplastics | Str.   | N/A |
|-------------|---------------------------------------------|--------|-----|
| Allowed imp | pression diameter (mm)                      | ≤ 2 mm | _   |

#### Page 40 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

|             |                  | IEC 62                 | 368-1     |      |                          |   |                    |
|-------------|------------------|------------------------|-----------|------|--------------------------|---|--------------------|
| Clause      | Requirement + T  | est                    |           | Resu | t - Remark               |   | Verdict            |
| Object/Part | No./Material     | Manufacturer/trademark | Thickness | (mm) | Test<br>temperature (°C) |   | ession<br>ter (mm) |
| + _         | × 4              |                        | ×         |      | <u> </u>                 |   |                    |
| - 4         |                  | <u>_</u>               | <u> </u>  |      |                          | 1 | -                  |
| Supplement  | ary information: | 74 4                   |           |      | 1 1                      | 9 | ~                  |
| Ļ           |                  |                        |           |      | X V                      |   |                    |

| 5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance       |                       |                         |                            |                     |            |                           |                     |            |
|----------------------------------------------------------------|-----------------------|-------------------------|----------------------------|---------------------|------------|---------------------------|---------------------|------------|
| Clearance (cl) and<br>creepage distance<br>(cr) at/of/between: | U <sub>p</sub><br>(V) | U <sub>rms</sub><br>(V) | Freq <sup>1)</sup><br>(Hz) | Required<br>cl (mm) | cl<br>(mm) | E.S. <sup>2)</sup><br>(V) | Required<br>cr (mm) | cr<br>(mm) |
| 5                                                              | -                     |                         | -                          |                     |            |                           | ¢                   | , ,        |
| Supplementary information:                                     |                       |                         |                            |                     |            |                           |                     |            |

1) Only for frequency above 30 kHz

2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

| 5.4.4.2    |                   | n distance through insulat | ion        |                      | N/A                  |
|------------|-------------------|----------------------------|------------|----------------------|----------------------|
|            | rough insulation  | Peak voltage (V)           | Insulation | Required DTI<br>(mm) | Measured DTI<br>(mm) |
|            | A.                | - <sup>2</sup>             |            |                      |                      |
| Supplement | tary information: | 4                          | dt .       | L.C.                 |                      |
|            |                   |                            | <u> </u>   |                      | <u>x</u> x           |

| 5.4.4.9 TABLE: Solid in    | ABLE: Solid insulation at frequencies >30 kHz |                    |                |                     |            |                          |  |  |  |
|----------------------------|-----------------------------------------------|--------------------|----------------|---------------------|------------|--------------------------|--|--|--|
| Insulation material        | E <sub>P</sub>                                | Frequency<br>(kHz) | K <sub>R</sub> | Thickness<br>d (mm) | Insulation | V <sub>PW</sub><br>(Vpk) |  |  |  |
|                            |                                               | N.                 | 1              |                     |            |                          |  |  |  |
| Supplementary information: | 4                                             |                    | 4              | 5                   |            | 1                        |  |  |  |
|                            |                                               |                    | 5              |                     | . [        |                          |  |  |  |

| 5.4.9        | TABLE: Electric stren | gth tests |                                                    |                  | N/A                   |
|--------------|-----------------------|-----------|----------------------------------------------------|------------------|-----------------------|
| Test voltage | e applied between:    | T A       | Voltage shape<br>(Surge, Impulse, AC,<br>DC, etc.) | Test voltage (V) | Breakdown<br>Yes / No |
| Functional:  |                       | 4         |                                                    | - 5              |                       |
|              |                       |           | ×- ×                                               |                  |                       |
| Basic/suppl  | ementary:             | Å         | Str.                                               |                  |                       |
|              |                       |           |                                                    |                  |                       |

Report No. S23083004604001

|             |                  |                                         | IEC 623 | 68-1 |               |     |         |
|-------------|------------------|-----------------------------------------|---------|------|---------------|-----|---------|
| Clause      | Requirement +    | - Test                                  | K       | Res  | sult - Remark |     | Verdict |
|             |                  | F A                                     |         |      |               | - A | ~       |
| Reinforced: | 1 1              | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |         | .L   |               |     |         |
| 2           |                  | 4                                       | *       | - 1  | - 7           |     |         |
| Routine Tes | sts:             | .ct                                     | A.C.    | 4    |               | X   | 5       |
|             |                  | 4                                       | 7       |      | A             | 5   |         |
| Supplement  | tary information | •                                       |         |      | 5             |     |         |
| 5           |                  | 1                                       |         | 4    |               | 4   |         |

| 5.5.2.2  | TABLE: Stored discharge on capacitors |                    |                                             |                 |                              |          |  |  |
|----------|---------------------------------------|--------------------|---------------------------------------------|-----------------|------------------------------|----------|--|--|
| Location | 4                                     | Supply voltage (V) | Operating and fault condition <sup>1)</sup> | Switch position | Measured<br>voltage<br>(Vpk) | ES Class |  |  |
|          |                                       | <u> </u>           | ,                                           | <u> </u>        | <pre> </pre>                 |          |  |  |

Supplementary information:

X-capacitors installed for testing are:

[] bleeding resistor rating:

[] ICX:

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

N - Normal operating condition (e.g., normal operation, or open fuse); S - Single fault condition

| 5.6.6 TABLE: Resistance of protective conductors and terminations |                     |                   |                     |                   |  |  |  |
|-------------------------------------------------------------------|---------------------|-------------------|---------------------|-------------------|--|--|--|
| Location                                                          | Test current<br>(A) | Duration<br>(min) | Voltage drop<br>(V) | Resistance<br>(Ω) |  |  |  |
| - * *                                                             | <u> </u>            | , <u> </u>        | Ø <                 |                   |  |  |  |
| Supplementary information:                                        |                     |                   |                     | A                 |  |  |  |
|                                                                   |                     | ~                 | ×                   |                   |  |  |  |

| 5.7.4       | TABL       | E: Unearthed acce    | ssible parts | * *                                               |               |     | N/A |
|-------------|------------|----------------------|--------------|---------------------------------------------------|---------------|-----|-----|
| Location    | 4          | Operating and        | Supply       | F                                                 | Parameters    |     | ES  |
|             |            | fault conditions     | Voltage (V)  | Voltage<br>(V <sub>rms</sub> or V <sub>pk</sub> ) | Freq.<br>(Hz) |     |     |
|             | 1          |                      |              | 1 - X                                             |               |     |     |
| Supplemen   | ntary info | rmation:             | * *          |                                                   |               |     | 5   |
| Abbreviatio | on: SC= :  | short circuit; OC= o | pen circuit  |                                                   |               | ~~` | X   |

#### Page 42 of 79

Report No. S23083004604001

### NTEK 北测<sup>®</sup>

|        |                    | IEC 62368-1 |                 |         |
|--------|--------------------|-------------|-----------------|---------|
| Clause | Requirement + Test |             | Result - Remark | Verdict |

| 5.7.5                      | TABLE: Earthed access | ible conductive part                         |                       | ~        | N/A |
|----------------------------|-----------------------|----------------------------------------------|-----------------------|----------|-----|
| Supply vol                 | tage (V)              |                                              | - 4                   |          | —   |
| Phase(s)                   |                       | [] Single Phase; [] Three                    | Phase: [ ] Delta      | []Wye    |     |
| Power Distribution System: |                       | [] TN [] TT [] IT                            | ×                     |          |     |
| Location                   | - 4                   | Fault Condition No in IEC 60990 clause 6.2.2 | Touch current<br>(mA) | Comme    | nt  |
| - 7                        | 4                     | <u> </u>                                     |                       | ×        |     |
|                            |                       | 2*                                           |                       |          |     |
|                            |                       | 3                                            | 4                     |          |     |
|                            |                       | 4                                            |                       | × -      | L   |
|                            |                       | 5                                            |                       | ×        |     |
|                            |                       | 6                                            | <u> </u>              | <u> </u> |     |
|                            |                       | 8                                            |                       |          |     |

Supplementary Information:

[1] Supply voltage is the anticipated maximum Touch Voltage.

[2] Earthed neutral conductor [Voltage differences less than 1% or more].

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3.

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (\*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

| 5.8         | TABLE:      | ABLE: Backfeed safeguard in battery backed up supplies |                               |          |                             |                      |          |  |  |  |
|-------------|-------------|--------------------------------------------------------|-------------------------------|----------|-----------------------------|----------------------|----------|--|--|--|
| Location    | 4           | Supply<br>voltage (V)                                  | Operating and fault condition | Time (s) | Open-circuit<br>voltage (V) | Touch<br>current (A) | ES Class |  |  |  |
| - 2         |             |                                                        | + -                           | <u> </u> |                             | -                    | 5        |  |  |  |
| Supplemen   | tary inform | nation: 🔨                                              | 4                             |          |                             | 4                    |          |  |  |  |
| Abbreviatio | n: SC= sh   | ort circuit. O                                         | C= open circuit               |          | ~                           |                      |          |  |  |  |

| 6.2.2                                 | TABLE: Power sourc            | 5              | Р           |                                    |          |                |
|---------------------------------------|-------------------------------|----------------|-------------|------------------------------------|----------|----------------|
| Location                              | Operating and fault condition | Voltage (V)    | Current (A) | Max.<br>Power <sup>1)</sup><br>(W) | Time (S) | PS class       |
| Input circuit<br>internal<br>circuits | &                             | 4 <sup>4</sup> |             | ¢- ₹                               |          | PS2(decla red) |
| Battery pack                          | k Overload                    | 3.46           | 8.4         | 29.09                              | 5        | PS2            |
| Battery cell                          |                               | 2.44           | 30.0        | 73.25                              | 5 🕹      | PS2            |

#### Page 43 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

|           | A S                        | IEC 623 | 68-1 | F 🔊            |          |         |
|-----------|----------------------------|---------|------|----------------|----------|---------|
| Clause    | Requirement + Test         |         | Re   | esult - Remark |          | Verdict |
| output    |                            | * *     |      |                | <u>A</u> | Ŕ       |
| Туер-с    | Overload                   | 3.64    | 1.6  | 5.83           | 3        | PS1     |
|           | Single fault:              | 4.9     | 0.5  | 2.45           | 3        | PS1     |
|           | battery B- to P-           |         | 4    |                | . et     |         |
| Supplemen | ntary information:         |         | X    |                | ~        |         |
|           | on: SC= short circuit; OC= |         | - Ar | 4              |          | .ct     |

1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

| 6.2.3.1   | TABLE: Determ     |                                         | N/A                           |                  |                         |
|-----------|-------------------|-----------------------------------------|-------------------------------|------------------|-------------------------|
| Location  |                   | Open circuit voltage<br>after 3 s (Vpk) | Measured r.m.s<br>current (A) | Calculated value | Arcing PIS?<br>Yes / No |
|           | A 3               |                                         |                               |                  | -                       |
| Supplemen | tary information: | -                                       | 4                             |                  |                         |
| A.        | •                 |                                         | 2                             |                  | 1                       |

| 6.2.3.2                           | TABLE: Determi        | nation of resistive PIS       | <u> </u>            | Р                       |
|-----------------------------------|-----------------------|-------------------------------|---------------------|-------------------------|
| Location                          | 2                     | Operating and fault condition | Dissipate power (W) | Arcing PIS?<br>Yes / No |
| Input circuit & internal circuits |                       | ~ <sup></sup>                 | >15                 | Yes*                    |
| Supplemen                         | ntary information:    | , t                           |                     |                         |
| Abbreviatio                       | on: SC= short circuit | ; OC= open circuit            |                     |                         |

\* All internal circuits were considered as resistive PIS.

| 8.5.5 TABLE: High          | pressure lamp |                  |                                           | N/A                                      |
|----------------------------|---------------|------------------|-------------------------------------------|------------------------------------------|
| Lamp manufacturer          | Lamp type     | Explosion method | Longest axis of<br>glass particle<br>(mm) | Particle found<br>beyond 1 m<br>Yes / No |
| - 1 5                      |               |                  |                                           |                                          |
| Supplementary information: |               |                  |                                           | ~                                        |

#### Page 44 of 79

### NTEK 北测<sup>®</sup>

Report No. S23083004604001

|             |              |                |                   | IEC 6          | 2368-1            |                                             |                       |                |                       |
|-------------|--------------|----------------|-------------------|----------------|-------------------|---------------------------------------------|-----------------------|----------------|-----------------------|
| Clause      | Requiren     | nent + Tes     | t                 |                |                   | Result -                                    | Remark                |                | Verdict               |
| 9.6         | TABLE:       | Tempera        | ture measu        | urements       | for wireles       | ss power t                                  | ransmitter            | s              | N/A                   |
| Supply volt | age (V)      |                |                   | :              |                   | <u>ــــــــــــــــــــــــــــــــــــ</u> | A.C.                  |                |                       |
| Max. transi | mit power    | of transmi     | tter (W)          | :,+            |                   |                                             |                       |                |                       |
|             |              |                | eiver and contact |                | eiver and contact |                                             | ver and at<br>of 2 mm |                | ver and at<br>of 5 mm |
| Foreign o   | objects      | Object<br>(°C) | Ambient<br>(°C)   | Object<br>(°C) | Ambient<br>(°C)   | Object<br>(°C)                              | Ambient<br>(°C)       | Object<br>(°C) | Ambient<br>(°C)       |
| ~           |              |                | <u> </u>          |                |                   |                                             |                       | <u>ـــــ</u>   | <u> </u>              |
| Supplemen   | ntary inform | nation:        |                   |                |                   |                                             |                       | Sec. 1         | ~                     |
| X           |              |                | ,                 | 4              |                   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~     | ~                     |                |                       |

| 5.4.1.4,             | TABLE: Tempe      | erature me               | asurem            | ents           |                | . –            |                                              | Р                                |  |  |  |
|----------------------|-------------------|--------------------------|-------------------|----------------|----------------|----------------|----------------------------------------------|----------------------------------|--|--|--|
| 9.3, B.1.5,<br>B.2.6 | Star &            |                          |                   |                |                |                |                                              |                                  |  |  |  |
| Supply volta         | age (V)           | ÷.                       |                   | Condition<br>A | Condition<br>B | Condition<br>C |                                              | ¥ —                              |  |  |  |
| Ambient ter          | nperature during  | test T <sub>amb</sub> (° | C) :              | See<br>below   | See<br>below   | See<br>below   |                                              | _                                |  |  |  |
| Maximum n            | neasured tempera  | ature <i>T</i> of p      | oart/at:          | 4              | Τ(             | °C)            | 2                                            | Allowed<br>T <sub>max</sub> (°C) |  |  |  |
| PCB near J           | 2                 | 4                        |                   | 53.8           | 43.6           | 58.3           |                                              | 130                              |  |  |  |
| PCB near L           | J25               |                          |                   | 51.7           | 42.5           | 50.2           |                                              | 130                              |  |  |  |
| Battery              |                   | X                        |                   | 37.0           | 35.6           | 52.5           |                                              | Ref.                             |  |  |  |
| Plastic encl         | osure inside near | battery                  |                   | 35.2           | 35.2           | 50.8           | 4                                            | Ref.                             |  |  |  |
| Ambient              |                   |                          |                   | 25.0           | 25.0           | 40.0           |                                              |                                  |  |  |  |
| Accessible           | part at ambient 2 | 5ºC                      |                   | ہے ل           |                |                | ×                                            | <u>``</u>                        |  |  |  |
| Plastic encl         | osure outside nea | ar battery               | K                 | 30.2           | 28.6           | 36.2           |                                              | 48                               |  |  |  |
| Button               | 4                 | 5                        | 7                 | 30.1           | 28.7           | 35.1           |                                              | 48                               |  |  |  |
| Screen               | 5                 | •                        |                   | 30.7 🏑         | 28.6           | 34.9           |                                              | 48                               |  |  |  |
| Adapter sur          | face              |                          |                   | 50.6           | 49.9           |                | A.                                           | 77                               |  |  |  |
| Ambient              |                   | *                        |                   | 25.0           | 25.0           | 25.0           | <u> -                                   </u> |                                  |  |  |  |
| Temperatur           | e T of winding:   | t <sub>1</sub> (°C)      | R <sub>1</sub> (Ω | $t_2 (°C)$     | $R_2(\Omega)$  | T (°C)         | Allowed<br>T <sub>max</sub> (°C)             | Insulation<br>class              |  |  |  |
|                      |                   |                          |                   | <b>7</b>       |                |                |                                              |                                  |  |  |  |

1. The manufacturer's specified maximum operation temperature for charging is 40°C, for discharging is 25°C.

2. The EUT'S surfaces either held, touched or worn against the body in normal use (> 1 min).

Report No. S23083004604001

|           |                                     | IEC 62368-1       |                 |         |
|-----------|-------------------------------------|-------------------|-----------------|---------|
| Clause    | Requirement + Test                  |                   | Result - Remark | Verdict |
| Conditior | n A: Charging fully discharged batt | tery, EUT operate | d normally.     |         |
| Condition | n B: Charging fully discharged batt | tery.             |                 | 2       |
| Condition | n C: Fully charged battery, EUT op  | perated normally  |                 | 1       |

#### Page 46 of 79

Report No. S23083004604001

### NTEK 北测<sup>®</sup>

|        |                    | IEC 62368-1     |         |
|--------|--------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| B.2.5 | TA | BLE: Inpu | ut test     |       |             |         |            |                  | Р                     |
|-------|----|-----------|-------------|-------|-------------|---------|------------|------------------|-----------------------|
| U (V) | Hz | I (A)     | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condit           | ion/status            |
| 5Vdc  |    | 1.517     | 2           | 12    | A A         | -       | 4          | Only cl          | current:              |
| 5Vdc  | -  | 1.364     | 2<br>Artest | 1     |             | - the   | Article    | charge<br>EUT ru | inning.<br>/ current: |

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured

- 1. The measured input power did not exceed the marked input rating by more than 10% when the apparatus was operated to produce the maximum normal input power.
- 2. The measured input current or input power under normal operating conditions, shall not exceed the rated current or rated power by more than 10%.

Report No. S23083004604001

| ~           |         | <u> </u>                   |                          | IEC 62        | 1-000                                     | <u> </u>               | <u> </u>                                                                                                                    |                        |
|-------------|---------|----------------------------|--------------------------|---------------|-------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|
| Clause      | Requ    | uirement + Test            | 4                        |               |                                           | Result - R             | emark                                                                                                                       | Verdict                |
| B.3, B.4    | TAB     | LE: Abnormal               | operating                | and fault     | condition t                               | ests                   |                                                                                                                             | Р                      |
| Ambient te  | mpera   | ture T <sub>amb</sub> (°C) | ÷.                       |               |                                           |                        | See below                                                                                                                   |                        |
| Power sour  | rce for | EUT: Manufact              | urer, mode               | l/type, out   | putrating:                                |                        |                                                                                                                             | -0                     |
| Componen    | it No.  | Condition                  | Supply<br>voltage<br>(V) | Test<br>time  | Fuse no.                                  | Fuse<br>current<br>(A) | Observation                                                                                                                 | n 🗲                    |
| Off mode, s | supplie | ed by power ada            | pter, charg              | ing with a    | n empty bat                               | ttery only.            |                                                                                                                             | ×                      |
| J2 Pin24-1  | 4       | SC 4                       | 5V                       | 7hrs          | Nat -                                     | 4                      | Unit normal operation<br>battery charged for<br>no damage, no haza<br>Battery, no emission<br>explosion and chem-<br>leaks. | 7hours.<br>ards.<br>1, |
| R211        |         | sc 🔨                       | 5V 🥄                     | 10mins        |                                           | S. Cont                | Unit shut down, no o<br>no hazards. Battery<br>no leaks, no explosi                                                         | no fire,               |
| C223        | 4       | sc                         | 5V                       | 10mins        | <u>-</u>                                  | <b>-</b> -             | Unit shut down, no o<br>no hazards. Battery<br>no leaks, no explosi                                                         | no fire,               |
| On mode, o  | chargii | ng fully discharg          | ed battery               | by power a    | adapter, EL                               | JT operate             | d normally.                                                                                                                 |                        |
| J2 Pin24    | -14     | SC                         | 5V                       | 7hrs          | g - 1<br>- 1                              | ₹ -<br>₹ -             | Unit normal operation<br>battery charged for<br>no damage, no haza<br>Battery, no emission<br>explosion and chem-<br>leaks. | 7hours.<br>ards.<br>1, |
| R211        |         | SC                         | 5V                       | 10mins        |                                           |                        | Unit shut down, no o<br>no hazards. Battery<br>no leaks, no explosi                                                         | no fire,               |
| C223        |         | SC                         | 5V                       | 10mins        | -                                         | - 4                    | Unit shut down, no o<br>no hazards. Battery<br>no leaks, no explosi                                                         | damage,<br>no fire,    |
| Speake      | ər      | SC SC                      | 5V                       | 10mins        | N. A. | 4                      | After SC, Unit norm<br>operation, Speaker<br>no damage, no haza<br>Battery no fire, no le<br>explosion.                     | abnorma<br>ards.       |
| On mode, s  | supplie | ed by fully charg          | ed battery,              | EUT oper      | ated norma                                | illy.                  |                                                                                                                             | 2                      |
| U25 PinD4   | -A1     | SC<br>Over<br>discharging  | Fully<br>battery         | 1hr30mi<br>ns | it.                                       | 4 C                    | After SC, Unit norma<br>operation, no dama<br>hazards. Battery no<br>leaks, no explosion.                                   | ge, no<br>fire, no     |
| Type-c outp | put     | SC                         | Fully<br>battery         | 10mins        |                                           | A.C.                   | Unit normal operation<br>damage, no hazards<br>no fire, no leaks, no<br>explosion.                                          | s. Batter              |
| Type-c out  | out     | overload                   | Fully                    | 1hr20mi       |                                           | 4                      | Unit normal operation                                                                                                       | on, no                 |

Report No. S23083004604001

|                                         |                    |                         |                      | IEC 623              | 368-1               |                        | <u> </u>       |                                                                         | ~                         |
|-----------------------------------------|--------------------|-------------------------|----------------------|----------------------|---------------------|------------------------|----------------|-------------------------------------------------------------------------|---------------------------|
| Clause                                  | Requirement        | + Test                  |                      |                      |                     | Result -               | Remark         |                                                                         | Verdict                   |
|                                         | t sk               | batte                   | ery                  | ns                   |                     | _                      |                | age, no haza<br>e, no leaks, r<br>osion.                                |                           |
| Battery B- to                           | P- SC              | C Full<br>batte         | -                    | 10mins               | 4                   |                        | dama<br>no fir | normal opera<br>age, no haza<br>e, no leaks, r<br>osion.                | rds. Battery              |
| Speaker                                 | so<br>so           | C Full<br>batte         | -                    | 10mins               | A.C.                | -4-                    | speal<br>dama  | normal opera<br>ker abnorma<br>age, no haza<br>e, no leaks, r<br>osion. | l, no<br>rds. Battery     |
| R183                                    | s s                | C Full<br>batte         | -                    | 10mins               | 4                   | ų                      | no ha          | shut down, ne<br>azards. Batte<br>aks, no explo                         | ry no fire,               |
| C74                                     | so so              | C Full<br>batte         | -                    | 10mins               | A.                  | L.                     | no ha          | shut down, ne<br>azards. Batte<br>aks, no explo                         | ry no fire,               |
| Supplement                              | ary information    | า:                      |                      |                      |                     | •                      |                |                                                                         | L -                       |
| 1. SC=Shor                              | t circuit, OL=C    | Over Load               | Š                    |                      |                     | ×                      | 6              |                                                                         |                           |
| M.3                                     | TABLE: Pr          | otection circu          | uits fo              | or batteri           | es provid           | ed within              | the equ        | lipment                                                                 | Р                         |
| Is it possible                          |                    | battery in a re         |                      |                      | -                   |                        | -              | No                                                                      | <u> </u>                  |
|                                         |                    | 5 5                     |                      |                      | Ch                  | arging                 | Ļ              | Ż                                                                       |                           |
| Equipment                               | Specification      | Voltage (V)             |                      |                      | ×                   | 19                     | Current (A)    |                                                                         |                           |
|                                         |                    | S                       | ee m                 | arking pla           | te 了                |                        | See            | e marking pla                                                           | te 了                      |
|                                         |                    | , C                     |                      | 2                    | Battery             | specificat             | ion            | 5                                                                       |                           |
|                                         |                    | Non-recharge            | chargeable batteries |                      |                     | Rechargeable batteries |                |                                                                         |                           |
|                                         |                    | Discharging             |                      | ntentional           | Charging            |                        |                | Discharging                                                             | Reverse                   |
| Manufac                                 | :turer/type        | current (A)             |                      | narging<br>rrent (A) | Voltage             | (V) Curr               | ent (A)        | current (A)                                                             | charging<br>current (A)   |
| Shenzhen H<br>Tong Techn<br>/ Li3250A7H | ology Co.,Ltd      | 4 <sup></sup>           | V                    |                      | 4.45                | 2.5                    |                | 6.050                                                                   |                           |
| Note: The te                            | ests of M.3.2 a    | re applicable o         | nly w                | hen above            | e appropria         | ate data is            | s not ava      | ilable.                                                                 | 2                         |
| Specified ba                            | attery tempera     | ture (°C)               |                      |                      |                     | : 0 to                 | 60 °C          | 4                                                                       |                           |
| Component<br>No.                        | Fault<br>condition | Charge/<br>discharge mo | ode                  | Test<br>time         | Temp.<br>(°C)       | Current<br>(A)         | Voltage<br>(V) | e Obse                                                                  | rvation                   |
| Battery                                 | Normal condition   | Charge                  | 5                    | 2hrs<br>20mins       | Battery:<br>35.6 °C | 1.327                  | 4.45           | Unit norma<br>NL, NS, N<br>hazard.                                      | al operation<br>E, NF. No |
|                                         | t _                |                         |                      |                      | Ambient<br>:25.0 °C | 4                      |                |                                                                         |                           |

Supplementary information:

Report No. S23083004604001

|                                                     |                               | <u></u>                             | IE                      | EC 623       | 368-1                                      |     |                      |             |                           |                                                          | *                          |                      |
|-----------------------------------------------------|-------------------------------|-------------------------------------|-------------------------|--------------|--------------------------------------------|-----|----------------------|-------------|---------------------------|----------------------------------------------------------|----------------------------|----------------------|
| Clause                                              | Requirer                      | nent + Test                         |                         |              | Γ.                                         | F   | Result -             | Rem         | ark                       |                                                          |                            | Verdict              |
| t k                                                 | J2 Pin<br>14 S                |                                     |                         |              | 37.2 °C<br>Ambient<br>:25.0 °C             |     |                      | Ś           | ł                         | NL, NS<br>hazaro                                         |                            | NF. No               |
| Battery Norr<br>condi                               |                               |                                     |                         | hrs<br>mins  | Battery:<br>52.5 °C<br>Ambient<br>:40.0 °C | t   | 3.691                | 4.          | 45                        |                                                          | S, NE,                     | operation<br>NF. No  |
| Battery                                             | Sing<br>fault:<br>PinD4<br>SC | U25<br>-A1                          |                         | 1 hr<br>mins | Battery:<br>54.6 °C<br>Ambient<br>:40.0 °C | t   | 3.811                | 4.          | 45                        |                                                          | 5, NE,                     | operation<br>NF. No  |
| Supplement                                          | ary inform                    | nation:                             | Å                       |              | 1                                          |     |                      |             |                           | 4                                                        |                            |                      |
|                                                     |                               | ort circuit; OC=<br>emission of fla |                         |              |                                            |     |                      | e; NS       | i= no                     | spillag                                                  | e of lic                   | quid; NE=            |
| 4                                                   |                               | 7                                   |                         |              | *                                          |     |                      |             |                           |                                                          | 7                          |                      |
| M.4.2                                               | TABLE:<br>battery             | Charging sat                        | eguards for             | ' equi       | pment c                                    | ont | aining               | a se        | conc                      | lary litl                                                | hium                       | Р                    |
| Maximum s                                           | pecified c                    | harging voltage                     | ə (V)                   |              |                                            | :   | See be               | low         |                           |                                                          |                            | —                    |
| Maximum s                                           | pecified c                    | harging curren                      | t (A)                   |              |                                            | :   | See be               | low         |                           |                                                          |                            | —                    |
| Highest spe                                         | cified cha                    | arging temperat                     | ture (°C)               |              |                                            | :   | See be               | low         |                           |                                                          |                            |                      |
| Lowest spe                                          | cified cha                    | rging temperat                      | ure (°C)                |              |                                            | :   | See be               | low         |                           |                                                          | 2                          |                      |
| Battery                                             | H                             | Operating                           |                         | Mea          | surement                                   | t 🙏 |                      | 1           |                           | Obse                                                     | ervatio                    | n                    |
| manufacture                                         | er/type                       | and fault condition                 | Charging<br>voltage (V) |              | narging<br>rent (A)                        |     | Temp.<br>(°C)        |             |                           |                                                          |                            | 4                    |
| Shenzhensh<br>Jiuliyuan ele<br>technology o<br>3109 | ectronic                      | Normal condition                    | 4.45                    | 1            | .327                                       | °C  | ttery:35             |             |                           | no dan                                                   |                            | nemical<br>no        |
|                                                     |                               | Single fault<br>J2 Pin24-14<br>SC   | 4.45                    | 1            | .959                                       | °C  | ttery:37             | l l         |                           | no dar                                                   |                            | nemical<br>no        |
|                                                     | A.C.                          | Abnormal-<br>HSCT                   | 4.45                    |              | -<br>Kat                                   |     | ttery<br>face:<br>°C | t<br>u<br>c | oatter<br>init st<br>lama | the ten<br>y cell re<br>cop chai<br>ge, no l<br>jing cur | eacheo<br>rging.<br>nazaro | No<br>I.             |
|                                                     |                               | Abnormal-<br>LSCT                   | 4.45                    |              |                                            |     | ttery<br>face:       | ۱<br>د      | Vher                      | the ter<br>y cell re                                     | nperat<br>eached           | ure of the<br>I 0°C, |

#### Page 50 of 79

| IEC 62368-1       Clause     Requirement + Test     Result - Remark     Verdict | NTEK 北测 <sup>®</sup>      | Stat Lat    | Report No.      | S23083004604001 |
|---------------------------------------------------------------------------------|---------------------------|-------------|-----------------|-----------------|
| Clause Requirement + Test Result - Remark Verdict                               |                           | IEC 62368-1 | A S             |                 |
|                                                                                 | Clause Requirement + Test |             | Result - Remark | Verdict         |

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

| Q.1     | TABLE: Circuits intended for interconnection with building wiring (LPS)         P |                     |          |                 |       |       |       |  |  |
|---------|-----------------------------------------------------------------------------------|---------------------|----------|-----------------|-------|-------|-------|--|--|
| Output  | Condition                                                                         |                     | Time (e) | I <sub>sc</sub> | (A)   | < S ( | VA)   |  |  |
| Circuit | Condition                                                                         | U <sub>oc</sub> (V) | Time (s) | Meas.           | Limit | Meas. | Limit |  |  |
| Туре-с  | Normal                                                                            | 🦕 5.16 🔨            |          | 1.6             | 8.0   | 5.83  | 100   |  |  |
| ×       | Single fault:<br>Battery B- to P- SC                                              | 5.16                | -        | 2.3             | 8.0   | 6.28  | 100   |  |  |

| T.2, T.3,<br>T.4, T.5 | TABLI                                   | E: Steady force test |                   | Liter - | 7            |                         | P                                                 |
|-----------------------|-----------------------------------------|----------------------|-------------------|---------|--------------|-------------------------|---------------------------------------------------|
| Location/Pa           | art                                     | Material             | Thickness<br>(mm) | Probe   | Force<br>(N) | Test<br>Duration<br>(s) | Observation                                       |
| Top of enclo          | osure                                   | Plastic              | ⊁ <del>-</del> ⊀  |         | 100          | 5                       | TS3 energy<br>sources not<br>become<br>accessible |
| Side of encl          | losure                                  | Plastic              | -                 |         | 100          | 5                       | TS3 energy<br>sources not<br>become<br>accessible |
| Bottom of enclosure   | 5                                       | Plastic              |                   | AN OF   | 100 5        | 5                       | TS3 energy<br>sources not<br>become<br>accessible |
| Supplement            | tary info                               | rmation:             |                   | ×       | 1            |                         |                                                   |
| A.                    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ,                    |                   |         |              |                         |                                                   |

| T.6, T.9 TABLE: In     | npact test |                   |                | N/A         |
|------------------------|------------|-------------------|----------------|-------------|
| Location/Part          | Material   | Thickness<br>(mm) | Height<br>(mm) | Observation |
| -                      |            | Ζ                 |                | A - 4       |
| Supplementary informat | ion:       |                   |                | 4           |
|                        | <u> </u>   |                   |                | 4           |

#### Page 51 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

|             |                    | I        | EC 62368-1         |                |                               |         |
|-------------|--------------------|----------|--------------------|----------------|-------------------------------|---------|
| Clause      | Requirement + Te   | est      | A S                | Result - Ren   | nark                          | Verdict |
| T.7         | TABLE: Drop te     | st 🖉     |                    |                |                               | Р       |
| Location/Pa | art                | Material | Thickness<br>(mm)  | Height<br>(mm) | Observatio                    | on      |
| Top of encl | osure              | Plastic  | \$ - <del>\$</del> | 1000           | TS3 energy sou<br>become acce |         |
| Side of enc | losure             | Plastic  | - 4                | 1000           | TS3 energy sou<br>become acce |         |
| Bottom of e | enclosure          | Plastic  | -~                 | 1000           | TS3 energy sou<br>become acce |         |
| Supplemen   | ntary information: | <u> </u> | _                  |                | - Alexandre                   |         |
| 4           | 5                  |          |                    | 4              |                               |         |

| T.8           | TABLE     | : Stress relief te | est <             | 4                        |                 | У                      |
|---------------|-----------|--------------------|-------------------|--------------------------|-----------------|------------------------|
| Location/Part | 1         | Material           | Thickness<br>(mm) | Oven Temperature<br>(°C) | Duration<br>(h) | Observation            |
| Enclosure     |           | Plastic            | ST.               | 70                       | 7               | No damage, no hazards. |
| Supplementa   | ry infori | mation:            |                   |                          |                 | 4                      |
| <u>k</u>      |           |                    | 4                 |                          | 7               | *                      |

| Х ТАВ                      | TABLE: Alternative method for determining minimum clearances distances |                                |                     |                |  |
|----------------------------|------------------------------------------------------------------------|--------------------------------|---------------------|----------------|--|
| Clearance distand between: | ced                                                                    | Peak of working voltage<br>(V) | Required cl<br>(mm) | Measure<br>(mm |  |
|                            |                                                                        | A                              | - +                 | <u> </u>       |  |
| Supplementary in           | formation:                                                             | 4                              |                     |                |  |
|                            |                                                                        |                                |                     |                |  |

Page 52 of 79

# NTEK 北测<sup>®</sup>

Report No. S23083004604001

| Clause                   | Rea     | uirement + Test                                                |                  | Result                                                                   | - Remark                                                    | Ver                                                                                                          | dict    |
|--------------------------|---------|----------------------------------------------------------------|------------------|--------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
|                          |         |                                                                | .L 2             |                                                                          |                                                             |                                                                                                              | Ś       |
| 4.1.2                    | TAE     | BLE: Critical comp                                             | onents informati | on                                                                       | <u>x</u> x                                                  | P                                                                                                            |         |
| Object / pa              | art No. | Manufacturer/<br>trademark                                     | Type / model     | Technical data                                                           | Standard                                                    | Mark(s) of conformity                                                                                        |         |
| AC ADAP                  | TER     | Guangdong<br>Quanzhi<br>Technology Co.,<br>Ltd.                | QZ-01000EA00     | Input:100-240V~<br>50/60Hz 0.3A<br>Max<br>Output: 5.0Vdc<br>2A, 10W Max. | EN IEC 62368-1:<br>2020/A11:2020                            | HUAXUN<br>Test repor<br>No.:<br>HX220902<br>4316                                                             |         |
| (Alt.)                   | 4       | Guangdong<br>Quanzhi<br>Technology Co.,<br>Ltd.                | QZ-01001EA00     | Input:100-240V~<br>50/60Hz 0.3A<br>Max<br>Output: 5.0Vdc<br>2A, 10W Max. | EN 62368-<br>1:2014+A11:2017                                | Certificate<br>Conformity<br>No.:<br>LP230800<br>C01-05<br>Report<br>reference<br>No.:<br>LP230800<br>C01-05 | y<br>41 |
| Rechargea<br>Li-ion Batt |         | Shenzhen Hua<br>Tian Tong<br>Technology<br>Co.,Ltd             | Li3250A7HTT      | 3.87Vd.c,<br>6050mAh,<br>23.413Wh                                        | IEC 62133-<br>2:2017, IEC<br>62133-<br>2:2017/AMD1:202<br>1 | CTC<br>Test repor<br>No.:<br>CTC20231<br>0S03                                                                |         |
| РСВ                      |         | Interchangeable                                                | Interchangeable  | V-0, 130°C                                                               | UL796                                                       | UL                                                                                                           |         |
| Plastic<br>Enclosure     |         | SABIC JAPAN L<br>L C                                           | 943(f1)          | 120°C, V-0,<br>1.5mm thickness<br>Min.                                   | UL 94                                                       | UL E4558                                                                                                     | 7       |
| LCD scree                | en      | COPYRIGHT<br>BELONGS TO<br>Innolux<br>Technologies<br>Co.,Ltd. | HD087IA-02A      | 8.68 inch                                                                | IEC/EN 62368-1                                              | Tested wit appliance                                                                                         | h       |
| Speaker                  | 4       | New points<br>TECHNOLOGIE<br>S                                 | DK058-1          | 7Ω±15%<br>Rate: 1.0W, Max.<br>power: 1.2W                                | IEC/EN 62368-1                                              | Tested wit appliance                                                                                         | h       |
| Motor                    | 4       | Hunan<br>WeiYiTong<br>Electronic<br>Technology<br>Co.,Ltd.     | VICR1020         | 3.0VDC                                                                   | IEC/EN 62368-1                                              | Tested wit appliance                                                                                         | h       |

Report No. S23083004604001

| Clause | Requirement + Test                     |                                              | × ¿                       | Result | - Remark                        | ľ                          | /erdict |
|--------|----------------------------------------|----------------------------------------------|---------------------------|--------|---------------------------------|----------------------------|---------|
| LED    | ANHUI RETOP<br>ELECTRONICS<br>CO., LTD | NLW1016AV1*,<br>NLW1016AV2*,<br>NLW1016AV3*, | Input 3.3Vd<br>Exempt gro |        | IEC 62471:2006<br>EN 62471:2008 | SGS T<br>report I<br>SHES2 | No.:    |
|        | 00., LID                               | NLW1016AV4*,                                 |                           |        | 2                               | 197571                     |         |
|        |                                        | NLW1016AV5*,                                 |                           |        |                                 | 107071                     |         |
|        |                                        | NLW1016AV6*,                                 |                           |        |                                 |                            |         |
|        |                                        | WR-1016C05*,                                 |                           |        |                                 |                            |         |
|        |                                        | WR-                                          |                           |        | 10 A                            |                            |         |
|        | - 2                                    | 1016C10*,WR-                                 |                           |        |                                 |                            |         |
|        |                                        | 1016C15-70C5,                                |                           |        |                                 |                            |         |
|        |                                        | WR-1016C20*,                                 |                           |        | . (                             |                            |         |
|        |                                        | WR-1016C30*,                                 |                           |        |                                 |                            |         |
|        |                                        | 1016,                                        |                           |        |                                 |                            |         |
|        |                                        | 2016,NLW2016                                 |                           |        |                                 |                            |         |
|        | <                                      | AY2*,                                        |                           |        |                                 |                            |         |
|        |                                        | NLW2016AY3*,                                 | 7                         |        |                                 |                            |         |
|        |                                        | NLW2016AY4*,                                 |                           |        |                                 |                            |         |
|        |                                        | NLW2016AY5*,                                 |                           |        |                                 |                            |         |
|        |                                        | NLW2016AY6*,                                 |                           |        |                                 |                            |         |
|        | ~                                      | NLW2016AY7*,                                 |                           |        |                                 |                            |         |
|        |                                        | NLW2016AY8*,                                 | <u>s</u>                  |        |                                 |                            |         |
|        |                                        | NLW2016AY9*,                                 |                           |        |                                 |                            |         |
|        |                                        | NLW2016X*,                                   |                           |        |                                 |                            |         |
|        |                                        | NLW2016-                                     |                           |        |                                 |                            |         |
|        |                                        | XGK1, WR-                                    |                           |        | 7                               |                            |         |
|        | ~                                      | 2016C05*, WR-                                |                           |        |                                 |                            |         |
|        |                                        | 2016C10*,WR-                                 |                           |        |                                 |                            |         |
|        |                                        | 2016C15*, WR-                                |                           |        |                                 |                            |         |
|        |                                        | 2016C20*, WR-<br>2016C30* **"                |                           |        |                                 |                            |         |
|        | へ                                      |                                              | - 4                       |        |                                 | 4                          |         |
|        |                                        | could be<br>ABC Z for                        |                           |        |                                 |                            |         |
|        |                                        | difference client.                           |                           |        |                                 |                            |         |
|        |                                        | difference client.                           |                           |        |                                 |                            |         |

- 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.
- 2) License available upon request.

Page 54 of 79

|            | IEC                                                                                           | 62368_1E - ATTAC                          | CHMENT                                                                                  |            |
|------------|-----------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------|------------|
| Clause     | Requirement + Test                                                                            |                                           | Result - Remark                                                                         | Verdict    |
|            | ATTA                                                                                          | CHMENT TO TEST                            | r Report                                                                                |            |
|            |                                                                                               | IEC 62368-1                               |                                                                                         |            |
|            | EUROPEAN GROUP D                                                                              | IFFERENCES AND                            | NATIONAL DIFFERENCES                                                                    |            |
| (AUDI      |                                                                                               |                                           | N TECHNOLOGY EQUIPMENT - I                                                              | PART 1:    |
|            | S SI                                                                                          | AFETY REQUIREM                            | IENTS)                                                                                  | *          |
| Difference | es according to EN                                                                            | IEC 62368-1:2020+                         | -A11:2020                                                                               |            |
| Attachme   | nt Form NoEU_                                                                                 | _GD_IEC62368_1E                           |                                                                                         |            |
| Attachme   | nt Originator: UL(                                                                            |                                           |                                                                                         |            |
|            |                                                                                               |                                           |                                                                                         |            |
| Master At  | tachment 202                                                                                  | 1-02-04                                   |                                                                                         |            |
|            |                                                                                               |                                           | Certification of Electrical Equip                                                       | nent       |
| (IECEE), C | Geneva, Switzerland. All rights                                                               | s reserved.                               | <u> </u>                                                                                |            |
|            | CENELEC COMMON MODI                                                                           | FICATIONS (EN)                            |                                                                                         | Р          |
|            | Clause numbers in the cells<br>IEC 62368-1:2020+A11:2020<br>those in the paragraph below      | 0. All other clause n                     | nt grey are clause references in EN<br>numbers in that column, except for<br>68-1:2018. | Р          |
| ¢t.        | Clauses, subclauses, notes, those in IEC 62368-1:2018 a                                       |                                           | annexes which are additional to                                                         | -          |
|            | Add the following annexes:                                                                    |                                           |                                                                                         | Р          |
|            | Annex ZA (normative)<br>with their corre                                                      | Normative reference<br>esponding Europear | ces to international publications                                                       |            |
|            | Annex ZB (normative)                                                                          | Special national co                       | nditions                                                                                | <u>ک</u> ۲ |
|            | Annex ZC (informative)                                                                        | A-deviations                              |                                                                                         |            |
|            | Annex ZD (informative) cords                                                                  | IEC and CENELEC                           | C code designations for flexible                                                        |            |
| 1          | Modification to Clause 3.                                                                     |                                           |                                                                                         |            |
| 3.3.19     | Sound exposure                                                                                | 71 4                                      | A 5                                                                                     | N/A        |
|            | Replace 3.3.19 of IEC 62368                                                                   | 8-1 with the followin                     | g definitions:                                                                          |            |
| 3.3.19.1   | momentary exposure level                                                                      | , MEL 🔬                                   |                                                                                         | N/A        |
|            | metric for estimating 1 s soun<br>the HD 483-1 S2 test signal a<br>channels, based on EN 5033 | applied to both                           | om                                                                                      | Ę,         |
|            |                                                                                               |                                           | ~                                                                                       | 1          |
|            | Note 1 to entry: MEL is measured a                                                            |                                           | В.                                                                                      |            |
|            | Note 2 to entry: See B.3 of EN 5033                                                           |                                           |                                                                                         |            |

Page 55 of 79

S23083004604001

Report No.:

#### NTEK 北测

2

IEC62368 1E - ATTACHMENT Clause Requirement + Test Result - Remark Verdict 3.3.19.3 sound exposure, E N/A A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa<sup>2</sup> s.  $E = \int p(t)^2 \,\mathrm{d}t$ 3.3.19.4 sound exposure level, SEL N/A logarithmic measure of sound exposure relative to a reference value, Eo, typically the 1 kHz threshold of hearing in humans. Note 1 to entry: SEL is measured as A-weighted levels in dB.  $SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$ Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information. 3.3.19.5 digital signal level relative to full scale, dBFS N/A levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS. **Modification to Clause 10** 10.6 Safeguards against acoustic energy sources Ρ Replace 10.6 of IEC 62368-1 with the following: Introduction 10.6.1.1 Ρ Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: - is designed to allow the user to listen to audio or audiovisual content / material; and

Attachment 1 National differences

Attachment 1 National differences Repo

Report No.: S23083004604001

#### IEC62368\_1E - ATTACHM

| ACHME | NT | 2 |  |
|-------|----|---|--|
|       |    | ¥ |  |

| lause | Requirement + Test                                                                                                                                                                             | <u></u> <u>&lt;</u>                      | Result - Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Verdict |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|       | – uses a listening device, such as<br>earphones that can be worn in or o<br>around the ears; and                                                                                               |                                          | t stat the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
|       | - has a player that can be body w<br>suitable to be carried in a clothing                                                                                                                      | pocket) and                              | × 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _       |
|       | is intended for the user to walk arc<br>continuous use (for example, on a<br>in a subway, at an airport, etc.).                                                                                |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|       | EXAMPLES Portable CD players, MP3 aud<br>phones with MP3 type features, PDAs or si                                                                                                             | dio players, mobile<br>imilar equipment. | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A REF   |
|       | Personal music players shall comp<br>requirements of either 10.6.2 or 10                                                                                                                       |                                          | AND AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
|       | NOTE 1 Protection against acoustic energy telecom applications is referenced to ITU-T                                                                                                          | y sources from<br>P.360.                 | the state of the s | t       |
|       | NOTE 2 It is the intention of the Committee<br>alternative methods for now, but to only us<br>measurement method as given in 10.6.5 in<br>manufacturers are encouraged to impleme<br>possible. | e the dose<br>future. Therefore,         | Arter Are                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - Siles |
|       | Listening devices sold separately s the requirements of 10.6.6.                                                                                                                                | shall comply with                        | at at a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
|       | These requirements are valid for n mode only.                                                                                                                                                  | nusic or video                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -       |
|       | The requirements do not apply to:<br>– professional equipment;                                                                                                                                 |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5       |
|       | NOTE 3 Professional equipment is equipm<br>special sales channels. All products sold th<br>normal electronics stores are considered n<br>equipment.                                            | rough                                    | ot stat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | At 4    |
|       | <ul> <li>hearing aid equipment and other assistive listening;</li> </ul>                                                                                                                       | devices for                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|       | - the following type of analogue pe<br>players:                                                                                                                                                |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - 5     |
|       | <ul> <li>long distance radio receiver (for emultiband radio receiver or world breceiver, an AM radio receiver), an</li> <li>cassette player/recorder;</li> </ul>                               | and radio                                | with the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|       | NOTE 4 This exemption has been allowed technology is falling out of use and it is exp within a few years it will no longer exist. Th be extended to other technologies.                        | ected that                               | at stat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A.C.    |
|       | <ul> <li>a player while connected to an e<br/>that does not allow the user to wal<br/>while in use.</li> </ul>                                                                                 |                                          | A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A CAL   |
|       | For equipment that is clearly desig<br>primarily for use by children, the lir<br>relevant toy standards may apply.                                                                             |                                          | AND AN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | at .    |
|       | The relevant requirements are give                                                                                                                                                             | en in                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Š .     |

Attachment 1 National differences Report No.: S23083004604001

| Clause   | Requirement + Test                                                                                                     |                              | Result - Remark          | Verdict  |
|----------|------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|----------|
|          |                                                                                                                        |                              | 4-                       |          |
|          | EN 71-1:2011, 4.20 and the and measurement distances                                                                   |                              | as 🗼 🔬                   |          |
|          | Non-ionizing radiation from                                                                                            |                              | e in l                   |          |
| 10.6.1.2 | the range 0 to 300 GHz                                                                                                 |                              |                          | N/A      |
|          |                                                                                                                        |                              |                          |          |
|          | The amount of non-ionizing                                                                                             | radiation is regulated       | d by                     | - 2      |
|          | European Council Recomm                                                                                                |                              |                          |          |
|          | of 12 July 1999 on the limita                                                                                          |                              |                          |          |
|          | general public to electromage                                                                                          | gnetic fields (0 Hz to       | 300                      |          |
|          | GHz).                                                                                                                  |                              |                          |          |
|          | For intentional radiators, ICI                                                                                         |                              | uld                      |          |
|          | be taken into account for Lir                                                                                          |                              |                          |          |
|          | Time-Varying Electric, Magr                                                                                            |                              |                          |          |
|          | Electromagnetic Fields (up the held and body mounted dev                                                               |                              |                          |          |
|          | to EN 50360 and EN 50566                                                                                               |                              |                          |          |
| 10.6.2   | Classification of devices v                                                                                            |                              | v to estimate sound dose | N/A      |
| 10.6.2.1 | General                                                                                                                | innout ine cupueri,          |                          | N/A      |
| 10.0.2.1 | General                                                                                                                |                              |                          | IN/A     |
|          | 7                                                                                                                      |                              |                          |          |
|          | This standard is transitioning                                                                                         | g from short-term            |                          | At '     |
|          | based (30 s) requirements t                                                                                            |                              |                          |          |
|          | hour) requirements. These of                                                                                           |                              | ect                      |          |
|          | only for devices that do not                                                                                           |                              | 14 A                     |          |
|          | dose estimation as stipulate                                                                                           | d in EN 50332-3.             |                          | <u>.</u> |
|          | For classifying the acoustic                                                                                           |                              |                          |          |
|          | measurements are based of                                                                                              |                              |                          |          |
|          | equivalent sound pressure l                                                                                            |                              | od. 🕒 🛛 🖉                |          |
|          |                                                                                                                        |                              |                          | 1        |
|          | For music where the average                                                                                            |                              | ong                      | <u> </u> |
|          | term $LAeq, \tau$ ) measured over                                                                                      |                              |                          |          |
|          | song is lower than the avera                                                                                           |                              |                          |          |
|          | programme simulation noise                                                                                             |                              |                          |          |
|          | be done over the duration of this case, <i>T</i> becomes the du                                                        |                              | in                       |          |
|          | this case, 7 becomes the do                                                                                            | fraction of the song.        |                          | - 2      |
|          | NOTE Classical music, acoustic m                                                                                       | usic and broadcast typica    |                          |          |
|          | has an average sound pressure (lo                                                                                      | ng term LAeq, T) which is    |                          |          |
|          | much lower than the average program<br>Therefore, if the player is capable to                                          |                              |                          |          |
|          | compare it with the programme sim                                                                                      | nulation noise, the warning  |                          |          |
|          | does not need to be given as long                                                                                      |                              |                          |          |
|          | pressure of the song does not exce<br>For example, if the player is set wit                                            |                              | ion 🔶                    |          |
|          | noise to 85 dB, but the average mu                                                                                     | isic level of the song is or |                          |          |
|          | 65 dB, there is no need to give a w acknowledgement as long as the a                                                   |                              |                          |          |
|          | song is not above the basic limit of                                                                                   |                              |                          |          |
| 10.6.2.2 | RS1 limits (to be supersed                                                                                             |                              | X                        | N/A      |
|          |                                                                                                                        | oray on that day             |                          |          |
|          | RS1 is a class 1 acoustic er                                                                                           | lergy source that doe        |                          |          |
|          | hot avoad the tallouiner                                                                                               |                              |                          |          |
|          | not exceed the following:                                                                                              | a nackage (player y          | with                     |          |
|          | <ul> <li>not exceed the following:</li> <li>– for equipment provided as<br/>its listening device), and with</li> </ul> |                              | vith                     | At       |

Attachment 1 National differences Report No.: S23083004604001

| IEC62368 | 1E - | ATTACHMENT |
|----------|------|------------|

| Clause    | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark | Verdict                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------|
| the state | device, or where the combination of player and<br>listening device is known by other means such as<br>setting or automatic detection, the $LAeq, \tau acousticoutput shall be \le 85 dB when playing the fixed"programme simulation noise" described in EN50332-1.– for equipment provided with a standardizedconnector (for example, a 3,5 phone jack) thatallows connection to a listening device for generause, the unweighted r.m.s. output voltage shall be\le 27 \text{ mV} (analogue interface) or -25 dBFS (digitalinterface) when playing the fixed "programme$                                                                                                                                                                                                                                                                                                                                                                                       | the with write  | A AND AND AND AND AND AND AND AND AND AN |
|           | simulation noise" described in EN 50332-1.<br>– The RS1 limits will be updated for all devices as<br>per 10.6.3.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                          |
| 10.6.2.3  | <ul> <li>RS2 limits (to be superseded, see 10.6.3.3)</li> <li>RS2 is a class 2 acoustic energy source that does not exceed the following: <ul> <li>for equipment provided as a package (player will its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i>Aeq,<i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for generatuse, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digita interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> </ul> </li> </ul> | th              | N/A<br>N/A                               |
|           | RS3 is a class 3 acoustic energy source that exceeds RS2 limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | NI                                       |
| 10.6.3    | Classification of devices (new)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +               | N/A                                      |
| 10.6.3.1  | <b>General</b><br>Previous limits (10.6.2) created abundant false<br>negative and false positive PMP sound level<br>warnings. New limits, compliant with The<br>Commission Decision of 23 June 2009, are given<br>below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AND A           | S N/A                                    |
| 10.6.3.2  | RS1 limits (new)<br>RS1 is a class 1 acoustic energy source that does<br>not exceed the following:<br>– for equipment provided as a package (player<br>with its listening device), and with a proprietary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | s sint sin      | N/A                                      |

al differ

S230830046040

| lause    | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                 | Result - Remark | Verdict |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| ladoo    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>                                                                                                                                                                                                                                                                                                                        |                 | Voraiot |
| t z      | connector between the player<br>device, or where the combinati<br>listening device is known by ot<br>setting or automatic detection,<br>output shall be ≤ 80 dB when p<br>"programme simulation noise"<br>50332-1.<br>– for equipment provided with                                                                                                                                                                                                                                                                                                                                                                                                                           | ion of player and<br>ther means such as<br>the $LAeq, \tau$ acoustic<br>playing the fixed<br>described in EN                                                                                                                                                                                                                    | - stat stat     | A.C.    |
|          | connector (for example, a 3,5 g<br>allows connection to a listening<br>use, the unweighted r.m.s. out<br>≤ 15 mV (analogue interface) of<br>interface) when playing the fixe<br>simulation noise" described in                                                                                                                                                                                                                                                                                                                                                                                                                                                                | phone jack) that<br>g device for general<br>put voltage shall be<br>or -30 dBFS (digital<br>ed "programme                                                                                                                                                                                                                       | AN AND          | A lit   |
| 10.6.3.3 | RS2 limits (new)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 5                                                                                                                                                                                                                                                                                                                             |                 | N/A     |
|          | RS2 is a class 2 acoustic ener-<br>not exceed the following:<br>– for equipment provided as a<br>its listening device), and with a<br>connector between the player<br>device, or where the combinati<br>listening device is known by ot<br>setting or automatic detection,<br>exposure level, as described in<br>be $\leq$ 80 dB when playing the fit<br>simulation noise" described in<br>– for equipment provided with<br>connector (for example, a 3,5 p<br>allows connection to a listening<br>use, the unweighted r.m.s. out<br>over one week, as described in<br>be $\leq$ 15 mV (analogue interfac<br>(digital interface) when playing<br>"programme simulation noise" | package (player with<br>a proprietary<br>and its listening<br>ion of player and<br>ther means such as<br>the weekly sound<br>in EN 50332-3, shall<br>xed "programme<br>EN 50332-1.<br>a standardized<br>phone jack) that<br>g device for general<br>put level, integrated<br>in EN50332-3, shall<br>e) or -30 dBFS<br>the fixed | with with with  | And And |
| 10.6.4   | 50332-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | , t                                                                                                                                                                                                                                                                                                                             |                 |         |
|          | Requirements for maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | sound exposure                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 10.6.4.1 | Measurement methods All volume controls shall be tur during tests. Measurements shall be made EN 50332-1 or EN 50332-2 as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | in accordance with                                                                                                                                                                                                                                                                                                              | with with       | N/A     |
| 10.6.4.2 | Protection of persons<br>Except as given below, protect<br>parts accessible to ordinary persons and skilled persons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | tion requirements for persons, instructed                                                                                                                                                                                                                                                                                       | AT AT           | N/A     |
|          | NOTE 1 Volume control is not conside                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ered a safeguard.                                                                                                                                                                                                                                                                                                               |                 |         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                 |                 |         |

Between RS2 and an **ordinary person**, the **basic safeguard** may be replaced by an **instructional safeguard** in accordance with Clause F.5, except

Attachment 1 National differences Report No.: S23083004604001

| Clause   | Requirement + Test                                                                                    | Result - Remark                                                                                                 | Verdict |
|----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------|
|          | that the instructional safeguard shall be placed                                                      |                                                                                                                 |         |
|          | on the equipment, or on the packaging, or in the                                                      |                                                                                                                 |         |
|          | instruction manual.                                                                                   |                                                                                                                 |         |
|          | Alternatively, the instructional safeguard may be                                                     |                                                                                                                 |         |
|          | given through the equipment display during use.                                                       |                                                                                                                 |         |
|          |                                                                                                       |                                                                                                                 |         |
|          | The elements of the instructional safeguard sha                                                       |                                                                                                                 |         |
|          | be as follows:                                                                                        |                                                                                                                 |         |
|          |                                                                                                       | 4                                                                                                               | . (     |
|          | – element 1a: the symbol 40, IEC 60417-6044                                                           | 1                                                                                                               |         |
|          | (2011-01)                                                                                             |                                                                                                                 |         |
|          | – element 2: "High sound pressure" or equivalent                                                      |                                                                                                                 |         |
|          | wording                                                                                               | -                                                                                                               |         |
|          | – element 3: "Hearing damage risk" or equivalent                                                      |                                                                                                                 |         |
|          | wording                                                                                               | 1                                                                                                               |         |
|          | - element 4: "Do not listen at high volume levels for                                                 | or 🛛 🖉 🖉                                                                                                        |         |
|          | long periods." or equivalent wording                                                                  | A A A                                                                                                           | Y .     |
|          |                                                                                                       |                                                                                                                 |         |
|          | An equipment safeguard shall prevent exposure                                                         | l é l                                                                                                           |         |
|          | of an ordinary person to an RS2 source without                                                        |                                                                                                                 |         |
|          | intentional physical action from the ordinary                                                         |                                                                                                                 |         |
|          | person and shall automatically return to an output                                                    |                                                                                                                 |         |
|          | level not exceeding what is specified for an RS1                                                      |                                                                                                                 |         |
|          | source when the power is switched off.                                                                | 14° 7° 1                                                                                                        |         |
|          | The equipment shall provide a means to actively                                                       | tin di la constante di la const |         |
|          | inform the user of the increased sound level when                                                     |                                                                                                                 |         |
|          | the equipment is operated with an output                                                              | ~                                                                                                               |         |
|          | exceeding RS1. Any means used shall be                                                                |                                                                                                                 |         |
|          | acknowledged by the user before activating a                                                          |                                                                                                                 |         |
|          | mode of operation which allows for an output                                                          |                                                                                                                 |         |
|          | exceeding RS1. The acknowledgement does not                                                           |                                                                                                                 |         |
|          | need to be repeated more than once every 20 h or                                                      | f 🖉 🧟 🤿                                                                                                         |         |
|          | cumulative listening time.                                                                            |                                                                                                                 |         |
|          |                                                                                                       |                                                                                                                 |         |
|          | NOTE 2 Examples of means include visual or audible signals.<br>Action from the user is always needed. |                                                                                                                 |         |
|          |                                                                                                       |                                                                                                                 |         |
|          | NOTE 3 The 20 h listening time is the accumulative listening                                          |                                                                                                                 |         |
|          | time, independent of how often and how long the personal music player has been switched off.          | -                                                                                                               |         |
|          |                                                                                                       |                                                                                                                 |         |
|          | A skilled person shall not be unintentionally                                                         | *                                                                                                               |         |
| 2        | exposed to RS3.                                                                                       |                                                                                                                 | 2       |
| 10.6.5   | Requirements for dose-based systems                                                                   |                                                                                                                 | N/A     |
| 10.6.5.1 | General requirements                                                                                  |                                                                                                                 | N/A     |
|          | Personal music players shall give the warnings as                                                     |                                                                                                                 |         |
|          | provided below when tested according to EN                                                            |                                                                                                                 |         |
|          | 50332-3, using the limits from this clause.                                                           |                                                                                                                 |         |
|          |                                                                                                       |                                                                                                                 |         |
|          | The manufacturer may offer optional settings to                                                       |                                                                                                                 |         |
|          | allow the users to modify when and how they wish                                                      | 1 👫 🔰 🗸                                                                                                         |         |
|          | to receive the notifications and warnings to promo                                                    |                                                                                                                 |         |
|          | a better user experience without defeating the                                                        |                                                                                                                 |         |

Attachment 1 National differences Report No.: S23083004604001

| Clause   | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                            | Result - Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Verdict                                 |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Jiause   | Requirement i rest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>                                                                                                                                                                                                                                                                   | Result Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Verdict                                 |
|          | safeguards. This allows the users to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | a method that best meets their phys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | and device usage needs. If such op                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                            | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |
|          | are offered, an administrator (for ex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | restrictions, business/educational a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |
|          | etc.) shall be able to lock any option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | hal settings into                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | a specific configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | <b>T</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | The personal music player shall be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                            | <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |
|          | easy to understand explanation to t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | dose management system, the risk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                       |
|          | how to use the system safely. The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | made aware that other sources ma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | contribute to their sound exposure,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |
|          | work, transportation, concerts, club                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | s, cinema, car                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 10.6.5.2 | races, etc. Dose-based warning and require                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | monte                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 10.0.3.2 | Dose-based warning and require                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ments                                                                                                                                                                                                                                                                      | the states of th | N/A                                     |
|          | When a dose of 100 % CSD is read                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | thed and at                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | least at every 100 % further increas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |
|          | device shall warn the user and requ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | acknowledgement. In case the user                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - ·                                     |
|          | acknowledge, the output level shall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | decrease to compliance with class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | The warning shall at least clearly in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dicate that                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | listening above 100 % CSD leads to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | hearing damage or loss.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 10.6.5.3 | Exposure-based requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                     |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | With only dose-based requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - <                                     |
|          | effect could be far separated in time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | oto liotonina                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | purpose of educating users about s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | practice. In addition to dose-based                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | requirements, a                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | practice. In addition to dose-based PMP shall therefore also put a limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | requirements, a to the short-                                                                                                                                                                                                                                              | ATTEN F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |
|          | practice. In addition to dose-based                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | requirements, a to the short-                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | requirements, a to the short-<br>at.                                                                                                                                                                                                                                       | <ul> <li>★</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A                                       |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh                                                                                                                                                                                                                                                                                                                                                                                                                                                       | requirements, a<br>to the short-<br>at.<br>all automatically                                                                                                                                                                                                               | <ul> <li>★</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AN CO                                   |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee                                                                                                                                                                                                                                                                                                                                                                                                                | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or                                                                                                                                                                                            | <ul> <li>★</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AST R                                   |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18                                                                                                                                                                                                                                                                                                                                                                          | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>50 s, based on                                                                                                                                                                          | <ul> <li>★</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A.C.                                    |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3                                                                                                                                                                                                                                                                                                                                     | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>50 s, based on<br>3.                                                                                                                                                                    | <ul> <li>★</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A.C.                                    |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star                                                                                                                                                                                                                                                                                             | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>50 s, based on<br>3.<br>ting level                                                                                                                                                      | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A A                                     |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star<br>reduction to reaching target output)                                                                                                                                                                                                                                                     | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>50 s, based on<br>3.<br>ting level                                                                                                                                                      | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AND                                     |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star                                                                                                                                                                                                                                                                                             | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>50 s, based on<br>3.<br>ting level                                                                                                                                                      | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AN INTERNAL                             |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star<br>reduction to reaching target output)<br>faster.                                                                                                                                                                                                                                          | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>00 s, based on<br>3.<br>ting level<br>shall be 10 s or                                                                                                                                  | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AN LAND                                 |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star<br>reduction to reaching target output)<br>faster.<br>Test of EL functionality is conducted                                                                                                                                                                                                 | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>30 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to                                                                                                                | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AND                                     |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star<br>reduction to reaching target output)<br>faster.<br>Test of EL functionality is conducted<br>EN 50332-3, using the limits from the                                                                                                                                                        | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>00 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to<br>his clause. For                                                                                             | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A COLOR                                 |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star<br>reduction to reaching target output)<br>faster.<br>Test of EL functionality is conducted<br>EN 50332-3, using the limits from the<br>equipment provided as a package (                                                                                                                   | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>30 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to<br>his clause. For<br>(player with its                                                                         | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | And And                                 |
|          | practice. In addition to dose-based<br>PMP shall therefore also put a limit<br>term sound level a user can listen a<br>The exposure-based limiter (EL) sh<br>reduce the sound level not to excee<br>150 mV integrated over the past 18<br>methodology defined in EN 50332-3<br>The EL settling time (time from star<br>reduction to reaching target output)<br>faster.<br>Test of EL functionality is conducted<br>EN 50332-3, using the limits from the<br>equipment provided as a package (<br>listening device), the level integrated                                                                        | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>30 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to<br>his clause. For<br>(player with its<br>ed over 180 s                                                        | ANTER ANTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AN COLONY                               |
|          | <ul> <li>practice. In addition to dose-based PMP shall therefore also put a limit term sound level a user can listen a</li> <li>The exposure-based limiter (EL) she reduce the sound level not to exceed 150 mV integrated over the past 18 methodology defined in EN 50332-3. The EL settling time (time from star reduction to reaching target output) faster.</li> <li>Test of EL functionality is conducted EN 50332-3, using the limits from the equipment provided as a package (listening device), the level integrate shall be 100 dB or lower. For equip</li> </ul>                                    | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>30 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to<br>his clause. For<br>(player with its<br>ed over 180 s<br>ment provided                                       | Anter Anter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ANIEL .                                 |
|          | <ul> <li>practice. In addition to dose-based PMP shall therefore also put a limit term sound level a user can listen a</li> <li>The exposure-based limiter (EL) she reduce the sound level not to exceed 150 mV integrated over the past 18 methodology defined in EN 50332-3. The EL settling time (time from star reduction to reaching target output) faster.</li> <li>Test of EL functionality is conducted EN 50332-3, using the limits from the equipment provided as a package (listening device), the level integrate shall be 100 dB or lower. For equip with a standardized connector, the</li> </ul> | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>30 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to<br>his clause. For<br>(player with its<br>ed over 180 s<br>ment provided<br>unweighted leve                    | A ANTICAL ANTICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ANIEL .                                 |
|          | <ul> <li>practice. In addition to dose-based PMP shall therefore also put a limit term sound level a user can listen a</li> <li>The exposure-based limiter (EL) she reduce the sound level not to exceed 150 mV integrated over the past 18 methodology defined in EN 50332-3. The EL settling time (time from star reduction to reaching target output) faster.</li> <li>Test of EL functionality is conducted EN 50332-3, using the limits from the equipment provided as a package (listening device), the level integrate shall be 100 dB or lower. For equip</li> </ul>                                    | requirements, a<br>to the short-<br>at.<br>all automatically<br>ed 100 dB(A) or<br>00 s, based on<br>3.<br>ting level<br>shall be 10 s or<br>d according to<br>his clause. For<br>(player with its<br>ed over 180 s<br>ment provided<br>unweighted leve<br>hore than 150 m | A ANTICAL ANTICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AND |

#### Page 62 of 79

# NTEK 北测<sup>®</sup>

Clause

Requirement + Test

Report No.: S23083004604001 Attachment 1 National differences

#### IEC6

| 62368_1E - ATTACHME | INT             |         |
|---------------------|-----------------|---------|
|                     | Result - Remark | Verdict |
|                     |                 |         |
|                     |                 |         |

| .1       | NOTE In case the source is known not to be music (or test signal), the EL may be disabled.                                                                                                                                                                                                                                                                       |        |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 10.6.6   | Requirements for listening devices (headphones, earphones, etc.)                                                                                                                                                                                                                                                                                                 | N/A    |
| 10.6.6.1 | Corded listening devices with analogue input         With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound                                                                                                                                                                                                             | N/A    |
|          | settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be $\geq$ 75 mV. | t t    |
|          | NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.                                                                                                                                                                                                                                                                         |        |
| 10.6.6.2 | Corded listening devices with digital input                                                                                                                                                                                                                                                                                                                      | N/A    |
|          | With any playing device playing the fixed<br>"programme simulation noise" described in EN<br>50332-1, and with the volume and sound settings in                                                                                                                                                                                                                  | AT COL |
|          | the listening device (for example, built-in volume level control, additional sound features like                                                                                                                                                                                                                                                                 |        |
|          | equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq, \tau$ acoustic output of the listening device shall be $\leq 100$ dB with an input signal of -10                                                                                                                                                  | 45 C   |
| 10.6.6.3 | dBFS.                                                                                                                                                                                                                                                                                                                                                            |        |
| 10.0.0.3 | In cordless mode,<br>– with any playing and transmitting device playing                                                                                                                                                                                                                                                                                          | N/A    |
|          | the fixed programme simulation noise described in<br>EN 50332-1; and<br>– respecting the cordless transmission standards,<br>where an air interface standard exists that specifies<br>the equivalent acoustic level; and                                                                                                                                         |        |
|          | - with volume and sound settings in the receiving<br>device (for example, built-in volume level control,<br>additional sound features like equalization, etc.) set<br>to the combination of positions that maximize the<br>measured acoustic output for the above mentioned<br>programme simulation noise, the $LAeq, \tau$ acoustic                             | * *    |
|          | output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.                                                                                                                                                                                                                                                                          |        |
| 10.6.6.4 | Measurement method         Measurements shall be made in accordance with         EN 50332-2 as applicable.                                                                                                                                                                                                                                                       | N/A    |
| 3        | Modification to the whole document                                                                                                                                                                                                                                                                                                                               | N/A    |
|          |                                                                                                                                                                                                                                                                                                                                                                  |        |

#### Page 63 of 79

|        | A S                                                                  | IEO               | C62368_1E               | - ATTACHME            | NT            |                       | •          |
|--------|----------------------------------------------------------------------|-------------------|-------------------------|-----------------------|---------------|-----------------------|------------|
| Clause | Requirement -                                                        | + Test            |                         |                       | Result - Rem  | nark                  | Verdict    |
| -      | <b>Delete</b> all the list:                                          | "country" note    | es in the refe          | erence docume         | ent according | to the following      | N/A        |
|        | 0.2.1                                                                | Note 1 and 2      | 1                       | Note 4 and 5          | 3.3.8.1       | Note 2                |            |
|        | 3.3.8.3                                                              | Note 1            | 4.1.15                  | Note                  | 4.7.3         | Note 1 and 2          | 1          |
|        | 5.2.2.2                                                              | Note              | 5.4.2.3.2.2<br>Table 12 | Note c                | 5.4.2.3.2.4   | Note 1 and 3          | <u>م</u> ل |
|        | 5.4.2.3.2.4<br>Table 13                                              | Note 2            | 5.4.2.5                 | Note 2                | 5.4.5.1       | Note                  |            |
|        | 5.4.10.2.1                                                           | Note              | 5.4.10.2.2              | Note                  | 5.4.10.2.3    | Note                  |            |
|        | 5.5.2.1                                                              | Note              | 5.5.8                   | Note                  | 5.6.4.2.1     | Note 2 and 3<br>and 4 | t.         |
|        | 5.6.8                                                                | Note 2            | 5.7.6                   | Note                  | 5.7.7.1       | Note 1 and<br>Note 2  |            |
|        | 8.5.4.2.3                                                            | Note              | 10.2.1<br>Table 39      | Note 3 and 4<br>and 5 | 10.5.3        | Note 2                | -          |
|        | 10.6.1                                                               | Note 3            | F.3.3.6                 | Note 3                | Y.4.1         | Note                  |            |
|        | Y.4.5                                                                | Note              |                         |                       |               |                       |            |
|        |                                                                      |                   |                         |                       |               |                       |            |
|        | Modification                                                         |                   |                         |                       |               | .L.                   | Р          |
|        | Add the follow<br>NOTE Z1 The us<br>electronic equipn<br>2011/65/EU. | e of certain subs |                         |                       |               |                       | P          |

®

Attachment 1 National differences Report No.: S23083004604001

|             | IEC6                                                                                                                                                                                                                                                                 | 2368_1E - ATTACHM                                                                                                      | IENT            |         |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                                                                                                                                                                                                                   |                                                                                                                        | Result - Remark | Verdict |
| 5           | Modification to 4.Z1                                                                                                                                                                                                                                                 | 5                                                                                                                      | • ـــــ         | N/A     |
| 4.Z1        | Add the following new subcla                                                                                                                                                                                                                                         | ouse after 4.9:                                                                                                        | * 4             | N/A     |
|             | To protect against excessive<br>and earth faults in circuits con<br><b>mains</b> , protective devices sha<br>as integral parts of the equipm<br>building installation, subject to<br>and c):<br>a) except as detailed in b) and                                      | nnected to an a.c.<br>all be included either<br>nent or as parts of the<br>o the following, a), b)<br>d c), protective | ·               | x xite  |
|             | <ul> <li>devices necessary to comply<br/>of B.3.1 and B.4 shall be inclu<br/>equipment;</li> <li>b) for components in series w<br/>the equipment such as the su</li> </ul>                                                                                           | ided as parts of the<br>ith the mains input to                                                                         | ATTEN ANTEN     | 4       |
|             | coupler, r.f.i. filter and switch,<br>fault protection may be provid<br>devices in the building installa<br>c) it is permitted for <b>pluggabl</b><br>or <b>permanently connected e</b>                                                                              | short-circuit and earth<br>led by protective<br>ation;<br>e equipment type B<br>equipment, to rely on                  | Aritet Ari      | frink & |
|             | dedicated overcurrent and she<br>the building installation, provid<br>protection, e.g. fuses or circui<br>specified in the installation ins                                                                                                                          | ded that the means of it breakers, is fully                                                                            | stat stat       | A.C.    |
|             | If reliance is placed on protect<br>installation, the installation installation, the installation installation installation state, except that for <b>pluggab</b><br>the building installation shall be<br>providing protection in accord<br>the wall socket outlet. | structions shall so<br>ble equipment type A<br>be regarded as                                                          |                 | st st   |
| 6           | Modification to 5.4.2.3.2.4                                                                                                                                                                                                                                          | ~ ,                                                                                                                    |                 | N/A     |
| 5.4.2.3.2.4 | Add the following to the end of<br>The requirement for interconn<br>circuit is in addition given in I                                                                                                                                                                | nection with external                                                                                                  | A.              | N/A     |
| 7           | Modification to 10.2.1                                                                                                                                                                                                                                               |                                                                                                                        | <u> </u>        | N/A     |
| 10.2.1      | Add the following to <sup>c)</sup> and <sup>d)</sup> in<br>For additional requirements, s                                                                                                                                                                            |                                                                                                                        | ALL C           | N/A     |

#### Page 65 of 79

# NTEK 北测<sup>®</sup>

Attachment 1 National differences Report No.: S23083004604001

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2368_1E - ATTACH                                                                                                                                                                                   |                 |         |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Clause | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A.C.                                                                                                                                                                                               | Result - Remark | Verdict |
| 3      | Modification to 10.5.1                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                    |                 | N/A     |
| 0.5.1  | Add the following after the first                                                                                                                                                                                                                                                                                                                                                                                                                                                | st paragraph:                                                                                                                                                                                      | A- (            | N/A     |
|        | For RS 1 compliance is check<br>under the following conditions<br>In addition to the normal operation<br>controls adjustable from the o<br>any object such as a tool or a<br>internal adjustments or pre-se<br>locked in a reliable manner, a<br>give maximum radiation whils<br>intelligible picture for 1 h, at the<br>measurement is made.<br>NOTE Z1 Soldered joints and paint lo<br>adequate locking.<br>The dose-rate is determined by<br>radiation monitor with an effect | ating conditions, all<br>utside by hand, by<br>coin, and those<br>ets which are not<br>re adjusted so as to<br>t maintaining an<br>ne end of which the<br>ockings are examples of<br>by means of a | et writet write | t trick |
|        | any point 10 cm from the oute<br>apparatus.<br>Moreover, the measurement s<br>fault conditions causing an ind<br>voltage, provided an intelligibl<br>maintained for 1 h, at the end<br>measurement is made.<br>For RS1, the dose-rate shall r                                                                                                                                                                                                                                    | er surface of the<br>shall be made under<br>crease of the high<br>e picture is<br>of which the                                                                                                     | at at           | ATTEN . |
|        | taking account of the backgro<br>NOTE Z2 These values appear in Dir                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                    |                 |         |
|        | May 1996.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                    |                 |         |
| e 🖌    | Modification to G.7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                    |                 | N/A     |
| G.7.1  | Add the following note:<br>NOTE Z1 The harmonized code design the IEC cord types are given in Anne:                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                    | •               | N/A     |

Attachment 1 National differences Report No.: S23083004604001

#### IEC62368\_1E - ATTACHMENT

| Clause | Requirement + Test Result - Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Verdict                    |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 10     | Modification to Bibliography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | P                          |
| L_     | Add the following notes for the standards indicated:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Р                          |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
|        | IEC 60130-9 NOTE Harmonized as EN 60130-9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|        | IEC 60269-2 NOTE Harmonized as HD 60269-2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~                          |
|        | IEC 60309-1 NOTE Harmonized as EN 60309-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|        | IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
|        | EC 60601-2-4 NOTE Harmonized as EN 60601-2-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
|        | IEC 60664-5 NOTE Harmonized as EN 60664-5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|        | IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
|        | IEC 61508-1 NOTE Harmonized as EN 61508-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|        | IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
|        | IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
|        | IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
|        | IEC 61643-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                          |
|        | IEC 61643-21 NOTE Harmonized as EN 61643-21.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|        | IEC 61643-311 NOTE Harmonized as EN 61643-311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
|        | IEC 61643-321 NOTE Harmonized as EN 61643-321.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
|        | IEC 61643-331 NOTE Harmonized as EN 61643-331.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
| 11     | ADDITION OF ANNEXES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A                        |
| ZB     | ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A                        |
| 4.1.15 | Denmark, Finland, Norway and Sweden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A                        |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
|        | To the end of the subclause the following is added:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
|        | Class I pluggable equipment type A intended for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
|        | connection to other equipment or a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |
|        | connection to other equipment or a network shall, if safety relies on connection to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - <                        |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 45                       |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - 45                       |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br>accessible parts, have a marking stating that the                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br><b>accessible</b> parts, have a marking stating that the<br>equipment shall be connected to an earthed <b>mains</b>                                                                                                                                                                                                                                                                                                                                                             | - <del>1</del>             |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br>accessible parts, have a marking stating that the                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br><b>accessible</b> parts, have a marking stating that the<br>equipment shall be connected to an earthed <b>mains</b><br>socket-outlet.                                                                                                                                                                                                                                                                                                                                           | - Arie                     |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br><b>accessible</b> parts, have a marking stating that the<br>equipment shall be connected to an earthed <b>mains</b><br>socket-outlet.<br>The marking text in the applicable countries shall be                                                                                                                                                                                                                                                                                  | - Art                      |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br><b>accessible</b> parts, have a marking stating that the<br>equipment shall be connected to an earthed <b>mains</b><br>socket-outlet.                                                                                                                                                                                                                                                                                                                                           | - ANG                      |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> </ul>                                                                                                                                                                                                                                                                            | - Frite                    |
|        | connection to other equipment or a<br>network shall, if safety relies on connection to<br>reliable earthing or if surge suppressors<br>are connected between the network terminals and<br><b>accessible</b> parts, have a marking stating that the<br>equipment shall be connected to an earthed <b>mains</b><br>socket-outlet.<br>The marking text in the applicable countries shall be                                                                                                                                                                                                                                                                                  | - Art                      |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> <li>In Denmark: "Apparatets stikprop skal tilsluttes en</li> </ul>                                                                                                                                                                                                               | - Art                      |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> <li>In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."</li> <li>In Finland: "Laite on liitettävä suojakoskettimilla</li> </ul>                                                                               | - Art                      |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> <li>In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."</li> </ul>                                                                                                                                            | Arriel<br>Arriel           |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> <li>In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."</li> <li>In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</li> <li>In Norway: "Apparatet må tilkoples jordet</li> </ul> | ANCEL AND                  |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> <li>In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."</li> <li>In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</li> </ul>                                                    | - ANG                      |
|        | <ul> <li>connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.</li> <li>The marking text in the applicable countries shall be as follows:</li> <li>In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."</li> <li>In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</li> <li>In Norway: "Apparatet må tilkoples jordet</li> </ul> | - And<br>And<br>And<br>Est |

Attachment 1 National differences

Report No.: S23083004604001

| Clause          | Requirement + Test                                                 |                           | Sesult - Remark | Verdict        |
|-----------------|--------------------------------------------------------------------|---------------------------|-----------------|----------------|
|                 |                                                                    |                           |                 |                |
| 4.7.3           | United Kingdom                                                     |                           |                 | N/A            |
|                 | To the end of the subclause                                        | e the following is added: |                 |                |
|                 |                                                                    |                           |                 |                |
|                 | The torque test is performe                                        |                           |                 |                |
|                 | complying with BS 1363, ar assessed to the relevant cla            |                           |                 |                |
|                 | see Annex G.4.2 of this ann                                        |                           |                 |                |
| 5.2.2.2         | Denmark                                                            |                           | ~ ~             | N/A            |
|                 | After the 2nd paragraph add                                        | d the following:          |                 |                |
|                 | Aller the zhu paragraph aut                                        | a the following.          |                 |                |
|                 | A warning (marking safegua                                         | ard) for high touch       |                 |                |
|                 | current is required if the tou                                     |                           | <b>4</b>        |                |
|                 | limits of 3,5 mA a.c. or 10 m                                      | nA d.c.                   | -               |                |
| 5.4.11.1<br>and | Finland and Sweden                                                 |                           |                 | N/A            |
| Annex G         | To the end of the subclause                                        | e the following is added: |                 | 21             |
|                 | For separation of the teleco                                       | mmunication network       | 2               |                |
|                 | from earth the following is a                                      |                           |                 |                |
|                 |                                                                    | Para tan darkar faranta   |                 |                |
|                 | If this insulation is solid, include part of a component, it shall |                           | g               | 5              |
|                 | consist of either                                                  |                           | X X 1           |                |
|                 | <ul> <li>two layers of thin sheet r</li> </ul>                     | naterial, each of which   |                 |                |
|                 | shall pass the electric st                                         | rength test below, or     |                 |                |
|                 | one layer having a distar                                          | nce through insulation o  | f 🖉             |                |
|                 | at least 0,4 mm, which s                                           | hall pass the electric    |                 |                |
|                 | strength test below.                                               |                           | × 7             | X X            |
|                 | If this insulation forms part of                                   | of a semiconductor        | <u>ل</u> ا      |                |
|                 | component (e.g. an optocou                                         |                           |                 |                |
|                 | distance through insulation                                        |                           | ~`·             |                |
|                 | insulation consisting of an in                                     |                           |                 |                |
|                 | completely filling the casing                                      |                           | d               | × 4.           |
|                 | creepage distances do not of passes the electric strength          |                           |                 |                |
|                 | the compliance clause belo                                         |                           |                 |                |
|                 |                                                                    |                           |                 |                |
|                 | passes the tests and inspe-                                        |                           | A -             |                |
|                 | with an electric strength to<br>by 1,6 (the electric streng        |                           |                 |                |
|                 | performed using 1,5 kV),                                           |                           |                 |                |
|                 |                                                                    |                           | 5               |                |
|                 | and                                                                |                           |                 |                |
|                 | <ul> <li>is subject to routine testing</li> </ul>                  | ng for electric strength  |                 | - <del>(</del> |
|                 | during manufacturing, us                                           |                           | 5               | -              |
|                 | kV.                                                                | J                         |                 |                |
|                 | X X                                                                |                           | 4               |                |
|                 | It is permitted to bridge this                                     | insulation with a         | V               |                |

Attachment 1 National differences Report No.: S23083004604001

| Clause    | Requirement + Test                                                                                                  | Result - Remark | Verdict  |
|-----------|---------------------------------------------------------------------------------------------------------------------|-----------------|----------|
|           | subclass Y2.                                                                                                        |                 |          |
|           |                                                                                                                     |                 |          |
|           | A capacitor classified Y3 according to EN 60384-                                                                    | -               |          |
|           | 14:2005, may bridge this insulation under                                                                           |                 |          |
|           | the following conditions:                                                                                           |                 |          |
|           | the ineclation requirements are actisfied by                                                                        |                 |          |
|           | <ul> <li>the insulation requirements are satisfied by<br/>having a capacitor classified Y3 as defined by</li> </ul> |                 |          |
|           | EN 60384-14, which in addition to the Y3 testing,                                                                   |                 |          |
|           | is tested with an impulse test of 2,5 kV defined in                                                                 |                 |          |
|           | 5.4.11;                                                                                                             |                 |          |
|           |                                                                                                                     |                 |          |
|           | <ul> <li>the additional testing shall be performed on all<br/>the test energine as described in EN CO204</li> </ul> |                 |          |
|           | the test specimens as described in EN 60384-<br>14;                                                                 | <b>~</b>        |          |
|           |                                                                                                                     |                 |          |
|           | the impulse test of 2,5 kV is to be performed before                                                                |                 |          |
|           | the endurance test in EN 60384-14, in the                                                                           |                 |          |
|           | sequence of tests as described in EN 60384-14.                                                                      |                 |          |
| 5.5.2.1   | Norway                                                                                                              |                 | N/A      |
|           | After the 3rd paragraph the following is added:                                                                     |                 |          |
|           | Alter the ord paragraph the following is added.                                                                     |                 |          |
|           | Due to the IT power system used, capacitors are                                                                     |                 |          |
|           | required to be rated for the applicable line-to-line                                                                |                 |          |
|           | voltage (230 V).                                                                                                    |                 |          |
| 5.5.6     | Finland, Norway and Sweden                                                                                          |                 | N/A      |
|           | To the end of the subclause the following is added:                                                                 |                 |          |
|           | To the end of the subclause the following is added.                                                                 | $\vdash$        |          |
|           | Resistors used as <b>basic safeguard</b> or bridging                                                                |                 |          |
|           | basic insulation in class I pluggable equipment                                                                     |                 | <b>2</b> |
|           | type A shall comply with G.10.1 and the test of                                                                     |                 |          |
|           | G.10.2. Denmark                                                                                                     |                 |          |
| 5.6.1     | Demilark                                                                                                            |                 | N/A      |
|           | Add to the end of the subclause                                                                                     | A Contraction   |          |
|           | Due to many existing installations where the socket-                                                                |                 |          |
|           | outlets can be protected with fuses                                                                                 |                 |          |
|           | with higher rating than the rating of the socket-                                                                   | <u> </u>        |          |
|           | outlets the protection for pluggable equipment type A shall be an integral part of the                              |                 |          |
|           | equipment.                                                                                                          |                 | 5        |
|           | Justification:                                                                                                      |                 |          |
|           | In Denmark an existing 13 A socket outlet can be                                                                    |                 |          |
|           | protected by a 20 A fuse.                                                                                           | <u> </u>        | L        |
| 5.6.4.2.1 | Ireland and United Kingdom                                                                                          | -               | N/A      |
|           |                                                                                                                     |                 |          |
|           | After the indent for <b>pluggable equipment type A</b> ,                                                            |                 |          |
|           | the following is added:                                                                                             | 19 S            |          |
|           | - the <b>protective current rating</b> is taken to be 13 A,<br>this being the largest rating of fuse used in the    | 5               |          |
|           | mains plug.                                                                                                         |                 |          |

Attachment 1 National differences Report No.: 5

Report No.: S23083004604001

| Clause    | Requirement + Test                                                                                                                                                                                                                                                                                                                                               | Result - Remark | Verdict  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|
| 5.6.4.2.1 | France                                                                                                                                                                                                                                                                                                                                                           | At 21           | N/A      |
| t the     | After the indent for <b>pluggable equipment type A</b> ,<br>the following is added:<br>– in certain cases, the <b>protective current rating</b> of<br>the circuit supplied from the mains is taken as 20 A<br>instead of 16 A.                                                                                                                                   |                 | - Arrich |
| 5.6.5.1   | To the second paragraph the following is added:                                                                                                                                                                                                                                                                                                                  |                 | N/A      |
| 4 Miles   | The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.                                                                                                                                    | At st           | A.C.     |
| 5.6.8     | Norway                                                                                                                                                                                                                                                                                                                                                           | 4               | N/A      |
| 4         | To the end of the subclause the following is added:<br>Equipment connected with an earthed mains plug is<br>classified as <b>class I equipment</b> . See the Norway<br>marking requirement in 4.1.15. The symbol IEC<br>60417-6092, as specified in F.3.6.2, is accepted.                                                                                        | with with wi    | * *      |
| 5.7.6     | Denmark 🔿 🤿                                                                                                                                                                                                                                                                                                                                                      |                 | N/A      |
|           | To the end of the subclause the following is added:                                                                                                                                                                                                                                                                                                              | A A S           |          |
|           | The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.                                                                                                                                                                                                        |                 |          |
| 5.7.6.2   | Denmark                                                                                                                                                                                                                                                                                                                                                          | 4               | N/A      |
|           | To the end of the subclause the following is added:<br>The warning (marking safeguard) for high touch<br>current is required if the touch current or the<br>protective current exceed the limits of 3,5 mA.                                                                                                                                                      | et when         |          |
| 5.7.7.1   | Norway and Sweden                                                                                                                                                                                                                                                                                                                                                | 5               | N/A      |
|           | To the end of the subclause the following is added:<br>The screen of the television distribution system is<br>normally not earthed at the entrance of the building<br>and there is normally no equipotential bonding<br>system within the building.<br>Therefore the protective earthing of the building<br>installation needs to be isolated from the screen of | with with       | AND AND  |
|           | a cable distribution system.<br>It is however accepted to provide the insulation<br>external to the equipment by an adapter or an<br>interconnection cable with galvanic isolator, which                                                                                                                                                                         | with with       |          |
|           | may be provided by a retailer, for example.<br>The user manual shall then have the following or<br>similar information in Norwegian and Swedish<br>language respectively, depending on in what<br>country the equipment is intended to be used in:                                                                                                               | with with       | t.       |

Attachment 1 National differences Report No.: S23083004604001

#### IEC62368\_1E - ATTACHMENT

ACHMENT

| Clause    | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark                                                                              | Verdict     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|
| at with   | <ul> <li>"Apparatus connected to the protective earth the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using a cable, may in some circumstances create a f hazard. Connection to a television distribution system therefore has to be provided through device providing electrical isolation below a c frequency range (galvanic isolator, see EN 6 11)"</li> <li>NOTE In Norway, due to regulation for CATV-installation Sweden, a galvanic isolator shall provide electrical insul below 5 MHz. The insulation shall withstand a dielectric of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.</li> <li>Translation to Norwegian (the Swedish text w be accepted in Norway):</li> </ul> | coaxial<br>ire<br>n<br>a<br>certain<br>0728-<br>ns, and in<br>ation<br>strength<br>vill also | ANTER ANTER |
|           | <ul> <li>"Apparater som er koplet til beskyttelsesjord<br/>nettplugg og/eller via annet jordtilkoplet<br/>utstyr – og er tilkoplet et koaksialbasert kabe<br/>nett, kan forårsake brannfare.</li> <li>For å unngå dette skal det ved tilkopling av<br/>apparater til kabel-TV nett installeres en</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              | ASTER &     |
|           | galvanisk isolator mellom apparatet og kabel<br>nettet."<br>Translation to Swedish:<br>"Apparater som är kopplad till skyddsjord via<br>vägguttag och/eller via annan utrustning och                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , t                                                                                          |             |
| یک<br>انگ | samtidigt är kopplad till kabel-TV nät kan i vis<br>medfőra risk főr brand. Főr att undvika detta<br>vid anslutning av apparaten till kabel-TV nät<br>galvanisk isolator finnas mellan apparaten og<br>kabel-TV nätet.".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | skall                                                                                        | ATOT AT     |
| 8.5.4.2.3 | United Kingdom<br>Add the following after the 2 <sup>nd</sup> dash bullet in 3<br>paragraph:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 <sup>rd</sup>                                                                              | N/A         |
| AN INT    | An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 required where there is a risk of personal inju-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | is                                                                                           | * stat      |

Attachment 1 National differences Report No.: S23083004604001 IEC62368\_1E - ATTACHMENT

| Clause           | Requirement + Test                                                                                                                                                  | <u> </u>                                                                                                     | Result - Remark | Verdict |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 3.3.1 and<br>3.4 | Ireland and United Kingd                                                                                                                                            | om                                                                                                           | * 3             | N/A     |
| t "              | The following is applicable:                                                                                                                                        |                                                                                                              |                 |         |
|                  | To protect against excessiv<br>circuits in the primary circuit<br>equipment, tests according<br>B.4 shall be conducted usir                                         | t of <b>direct plug-in</b><br>g to Annexes B.3.1 and                                                         |                 | + +     |
|                  | circuit breaker complying w<br>rated 32A. If the equipment<br>tests, suitable protective de<br>as an integral part of the <b>di</b><br>until the requirements of Ar | ith EN 60898-1, Type B,<br>does not pass these<br>vices shall be included<br><b>rect plug-in equipment</b> , |                 | AN EL   |
|                  | met<br>Denmark                                                                                                                                                      |                                                                                                              | <b>2</b>        |         |
| .4.2             | Deninark                                                                                                                                                            |                                                                                                              | A               | N/A     |
|                  | To the end of the subclause                                                                                                                                         | e the following is added:                                                                                    | At Star         |         |
|                  | Supply cords of single phase<br>rated current not exceeding<br>with a plug according to DS                                                                          | 13 A shall be provided                                                                                       | ATT T           | ~~ ·    |
|                  | CLASS I EQUIPMENT prov<br>with earth contacts or which                                                                                                              | n are intended to be                                                                                         | At the .        | S.C.    |
|                  | used in locations where pro<br>contact is required accordin<br>shall be provided with a plu<br>standard sheet DK 2-1a or                                            | ng to the wiring rules g in accordance with                                                                  |                 | AND .   |
|                  | If a single-phase equipment<br>CURRENT exceeding 13 A<br>equipment is provided with<br>plug, this plug shall be in ac<br>standard sheets DK 6-1a in<br>60309-2.     | or if a polyphase<br>a supply cord with a<br>ccordance with the                                              | t stilt s       |         |
|                  | Mains socket outlets intend<br>to Class II apparatus with a<br>shall be in accordance DS<br>standard sheet DKA 1-4a.                                                | rated current of 2,5 A                                                                                       | State Sta       | + +     |
|                  | Other current rating socket compliance with Standard S or DKA 1-1c.                                                                                                 |                                                                                                              | at with         | AND -   |
|                  | Mains socket-outlets with e<br>compliance with DS 60884<br>Standard Sheet DK 1-3a, D<br>5a or DK 1-7a                                                               | -2-D1:2011                                                                                                   | 4ª              | A COL   |
|                  |                                                                                                                                                                     |                                                                                                              | A S             |         |
|                  | Justification:<br>Heavy Current Regulations                                                                                                                         | Section 6c                                                                                                   |                 |         |
|                  | Heavy Current Regulations                                                                                                                                           | , Section 6c                                                                                                 |                 |         |

Attachment 1 National differences Report No.: S23083004604001

| Clause | Requirement + Test                                                     |                               | Result - Remark | Verdict                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|------------------------------------------------------------------------|-------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | · ·                                                                    | <u> </u>                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G.4.2  | United Kingdom                                                         |                               |                 | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | To the end of the subclause the                                        | following is added:           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | To the cha of the subclause the                                        | Tonowing is added.            | ~ ~             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | The plug part of direct plug-in eq                                     | uipment shall be              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | assessed to BS 1363: Part 1, 12                                        |                               | ,               | × 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | 12.11, 12.12, 12.13, 12.16, and                                        |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | the test of 12.17 is performed at                                      |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 125 °C. Where the metal earth p<br>Insulated Shutter Opening Devic     |                               |                 | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | requirements of clauses 22.2 and                                       |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G.7.1  | United Kingdom                                                         | a 20 also apply.              |                 | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        |                                                                        |                               |                 | × IN/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|        | To the first paragraph the following                                   | ng is added: 🔊                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                                                                        |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Equipment which is fitted with a f                                     |                               |                 | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | cord and is designed to be conne<br>socket conforming to BS 1363 by    |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | flexible cable or cord shall be fitte                                  |                               |                 | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | plug' in accordance with the Plug                                      |                               | 4.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | (Safety) Regulations 1994, Statu                                       |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 1994 No. 1768, unless exempted                                         | d by those                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | regulations.                                                           |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | NOTE "Standard plug" is defined in SI 17                               | 768.1994 and essentially      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | means an approved plug conforming to E                                 |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | conversion plug.                                                       | <u> </u>                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G.7.1  | Ireland                                                                |                               |                 | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | To the first paragraph the following                                   | na is added <sup>.</sup>      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                                                                        |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Apparatus which is fitted with a fl                                    | lexible cable or \land        |                 | * <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | cord shall be provided with a plu                                      | g in accordance               | الح الم         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | with Statutory Instrument 525: 19                                      |                               |                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | and Conversion Adapters for Do                                         |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Regulations: 1997. S.I. 525 provi<br>recognition of a standard of anot |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | which is equivalent to the relevant                                    |                               | li li           | 千   久                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| G.7.2  | Ireland and United Kingdom                                             | <b>C</b>                      | A 5             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | To the first paragraph the following                                   | na is added:                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                                                                        |                               | <b>Z</b>        | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | A power supply cord with a cond                                        | uctor of 1,25 mm <sup>2</sup> |                 | and the second sec |
|        | is allowed for equipment which is                                      |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | and up to and including 13 A.                                          |                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

#### Page 73 of 79

# NTEK 北测<sup>®</sup>

Attachment 1 National differences Report No.: S23083004604001

| Clause | Requirement + Test                                                                                                                                                       |                                                         | Result - Remark | Verdict    |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------|------------|
| ZC     | ANNEX ZC, NATIONAL DE                                                                                                                                                    | VIATIONS (EN)                                           | ×               | N/A        |
| 10.5.2 | Germany                                                                                                                                                                  |                                                         |                 | N/A        |
|        | The following requirement a                                                                                                                                              | pplies:                                                 |                 |            |
|        | For the operation of any cath<br>for the display of visual image<br>acceleration voltage exceed<br>is required, or application of<br>approval (Bauartzulassung)          | ges operating at an<br>ing 40 kV, authorizatior<br>type | t with the      |            |
|        | Justification:<br>German ministerial decree a<br>(Röntgenverordnung), in ford                                                                                            | against ionizing radiation                              | n still st      | * *        |
|        | 2002-07-01, implementing th<br>96/29/EURATOM.<br>NOTE Contact address:<br>Physikalisch-Technische Bundesar<br>38116 Braunschweig,<br>Tel.: Int+49-531-592-6320, Internet | nstalt, Bundesallee 100, D-                             | ATT ATT         | t fright & |

#### Page 74 of 79

|     | IEC62368_1E - ATTACHMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                          |         |  |  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------|---------|--|--|
| lse | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark   |                          | Verdict |  |  |
|     | IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                          |         |  |  |
| t 4 | Type of flexible cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Code designations |                          | N/A     |  |  |
|     | the state of the s | IEC               | CENELEC                  | Rec.    |  |  |
|     | PVC insulated cords                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | F S                      |         |  |  |
|     | Flat twin tinsel cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 60227 IEC 41      | НОЗУН-Ү                  |         |  |  |
|     | Light polyvinyl chloride sheathed flexible cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60227 IEC 52      | H03VV-F<br>H03VVH2-F     | STOT    |  |  |
|     | Ordinary polyvinyl chloride sheathed flexible cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60227 IEC 53      | H05VV-F<br>H05VVH2-F     |         |  |  |
|     | Rubber insulated cords                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | *                        |         |  |  |
|     | Braided cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60245 IEC 51      | HO3RT-F                  |         |  |  |
|     | Ordinary tough rubber sheathed flexible cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60245 IEC 53      | H05RR-F                  |         |  |  |
|     | Ordinary polychloroprene sheathed flexible cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60245 IEC 57      | H05RN-F                  |         |  |  |
|     | Heavy polychloroprene sheathed flexible cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60245 IEC 66      | H07RN-F                  |         |  |  |
|     | Cords having high flexibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                          |         |  |  |
|     | Rubber insulated and sheathed cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60245 IEC 86      | HO3RR-H                  |         |  |  |
|     | Rubber insulated, crosslinked PVC sheathed cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60245 IEC 87      | нозрv4-н <               |         |  |  |
|     | Crosslinked PVC insulated and sheathed cord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60245 IEC 88      | H03V4V4-H                |         |  |  |
|     | Cords insulated and sheathed with halogen-<br>free thermoplastic compounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4 1               | *                        |         |  |  |
|     | Light halogen-free thermoplastic insulated and sheathed flexible cords                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | H03Z1Z1-F<br>H03Z1Z1H2-F |         |  |  |
|     | Ordinary halogen-free thermoplastic insulated and sheathed flexible cords                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   | H05Z1Z1-F<br>H05Z1Z1H2-F | 4       |  |  |

R

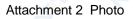
Report No. S23083004604001

### NTEK 北测<sup>®</sup>



Attachment 2 Photo

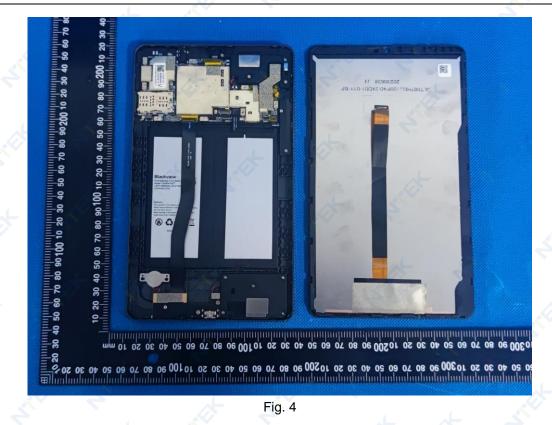
Fig. 2



Report No. S23083004604001



Fig. 3



Attachment 2 Photo

Report No. S23083004604001

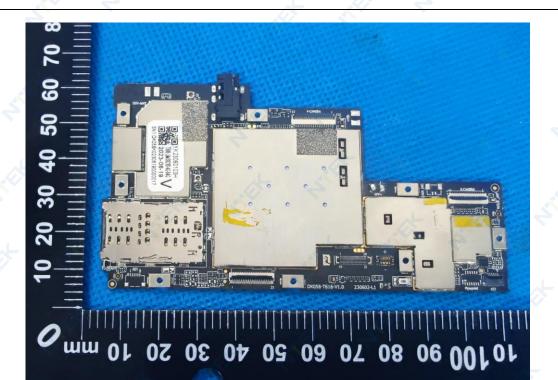
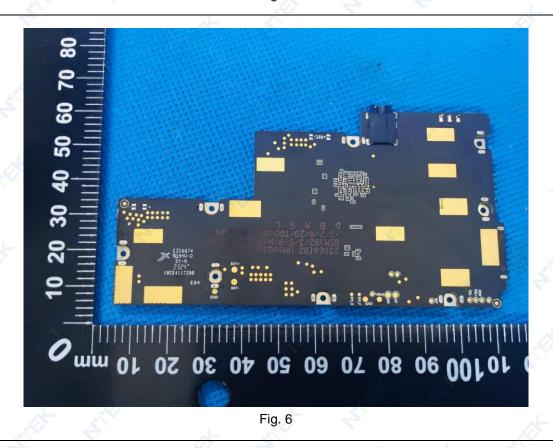
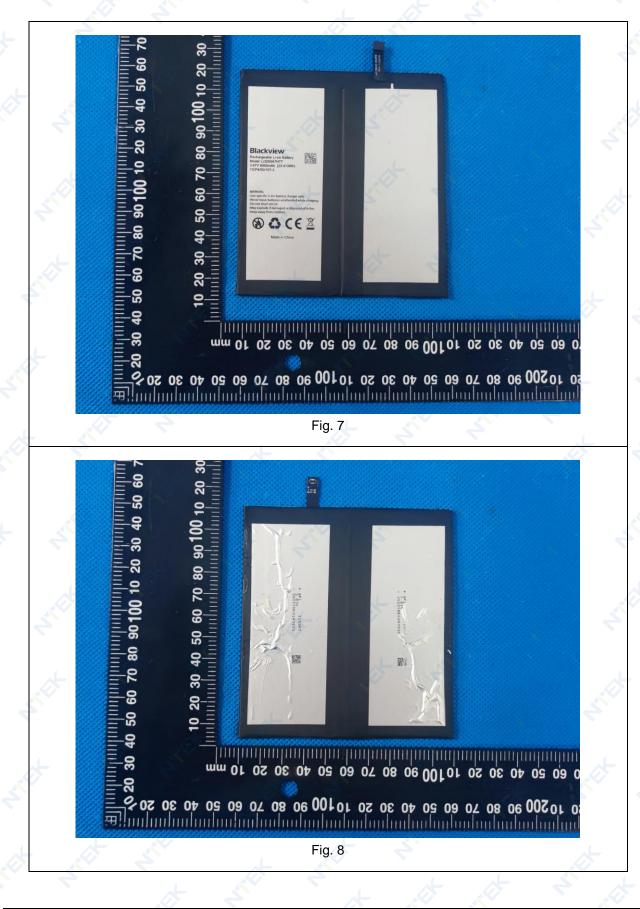


Fig. 5



Report No. S23083004604001

#### NTEK 北测<sup>®</sup>



Attachment 2 Photo

Attachment 2 Photo

Report No. S23083004604001

