

## **TEST REPORT**

Report No.:	S23081004403001
Product:	Tablet PC
Model No.:	Active 8 Pro
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/F, Building E, Fenda Science Park, Sanwei
	Community, Xixiang Street, Bao'an District, Shenzhen
	518126 P.R. China
Tel:	400-800-6106, 0755-2320 0050 / 2320 0090



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Report No. S23081004403001

#### TEST REPORT IEC/EN 62368-1

### Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number	S2308100440300	
Tested by (+ signature):	Jack Ding	Jask Ding
		~ <u>~</u>
Approved by (+ signature):	Coco Li	Coco Un
Date of issue	2023-09-06	the state
Total number of pages	83	
Name of Testing Laboratory	Shenzhen NTEK	Testing Technology Co., Ltd.
preparing the Report:		enda Science Park, Sanwei Community, Xixiang trict, Shenzhen 518126 P.R. China
Applicant's name:	DOKE COMMUNI	CATION (HK) LIMITED
Address:	RM 1902 EASEY WANCHAI HK CH	COMM BLDG 253-261 HENNESSY ROAD
Test specification:	<b>.</b>	
Standard	IEC 62368-1: 2	2018 (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-F	F1:2021, Ed.1.4
Test Report Form No	IEC62368_1E	
Test Report Form(s) Originator:	UL(US)	
Master TRF:	Dated 2022-04-14	
Copyright © 2022 IEC System of Con and Components (IECEE System). A		ent Schemes for Electrotechnical Equipmen
	EE takes no responsibili	ial purposes as long as the IECEE is acknowledged as ty for and will not assume liability for damages resulting from the and context.
Test item description:	Tablet PC	
Trade Mark:	Blackview	
Manufacturer:	Shenzhen DOKE	Electronic Co., Ltd
		th Industrial Zone, Yulv Community, Yutang ng District, Shenzhen, China.
Model/Type reference:	Active 8 Pro	

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List of Attachments (including a total number of pages	in each attachment):
Attachment 1: 21 pages (National deviation)	
Attachment 2: 6 pages (Photo)	
Summary of testing:	
Tests performed (name of test and test clause):	Testing location:
The submitted samples were found to comply with the requirements of:	Shenzhen NTEK Testing Technology Co., Ltd.
- EN IEC 62368-1:2020+A11:2020	1/F, Building E, Fenda Science Park,
All applicable tests as described in the compliance checklist were performed.	Sanwei Community, Xixiang Street, Bao'ar District, Shenzhen 518126 P.R. 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.

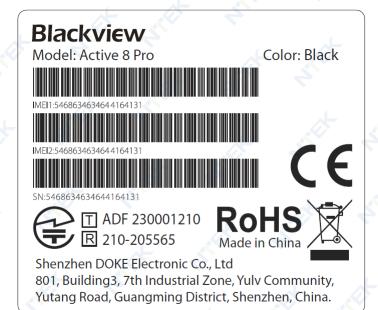
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#### Copy of marking plate:

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.



#### 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.

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Test item particulars:	
Product group:	🛛 end product 🗌 built-in component
Classification of use by: Supply connection:	<ul> <li>☑ Ordinary person</li> <li>☑ Instructed person</li> <li>☑ Skilled person</li> <li>☑ AC mains</li> <li>☑ not mains connected:</li> </ul>
Supply tolerance:	<ul> <li>☑ ES1 □ ES2 □ ES3</li> <li>□ +10%/-10%</li> <li>□ +20%/-15%</li> <li>□ + %/- %</li> <li>☑ ×</li> </ul>
Supply connection – type:	<ul> <li>None</li> <li>pluggable equipment type A -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> </ul>
	<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>☑ other: Not directly connected to mains</li> <li>☑ A.</li> <li>Location: □ building □ equipment</li> <li>☑ N/A</li> </ul>
Equipment mobility:	□ movable       □ hand-held       □ transportable         □ direct plug-in       □ stationary       □ for building-in         □ wall/ceiling-mounted       □ SRME/rack-mounted         □ other:       □         □ OVC I       □ OVC II       □ OVC III
Class of equipment: Special installation location:	<ul> <li>OVC IV</li> <li>☑ other: Not directly connected to the mains</li> <li>□ Class I</li> <li>□ Class II</li> <li>☑ Class III</li> <li>☑ Not classified</li> <li>□</li> <li>☑ N/A</li> <li>□ restricted access area</li> </ul>
Pollution degree (PD):	□ outdoor location □ □ PD 1 □ PD 2 □ PD 3
Manufacturer's specified T <sub>ma</sub> : IP protection class	$\underline{40}$ C(for battery discharging mode), $\underline{25}$ °C(for charging with AC power adapter mode) ; □ Outdoor: minimum °C □ IPX0 $\square$ IP_20_
Power systems: Altitude during operation (m)	$\square TN \square TT \square IT - V_{L-L}$ $\square not AC mains$ $\square 2000 m or less \square m$
Altitude of test laboratory (m): Mass of equipment (kg):	⊠ 2000 m or less □ m

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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 .....: 2023-05-26

Date (s) of performance of tests ..... 2023-05-26 to 2023-06-28

#### 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:

- 1. 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.
- -The unit shall be charged by approved external approved adapter according to EN 62368-1 and meet LPS requirements. The external power adapter rated parameter is "Input: 100-240VAC 50/60HZ, 0.8A Output: 5.0Vdc, 3.0A or 9.0Vdc, 3.0A or 12.0Vdc, 2.5A or 15.0Vdc, 2.0A, 20.0Vdc, 1.5A (PPS)3.3V-11.0V 3.0A 33W Max.".
- 3. The test of clause 10.6 for earphone socket was referred to a CNAS report with report number GCCT23EN082 which tested and issued by GCCT, Guangdong Telecommunications Terminal Products Quality Supervision and Testing Center (CNAS L4992).
- 4. In this report S23081004403001 update the Report Number, all test data in this report S23081004403001 is refer to the test data in initial report S23052600802001.

#### Model Differences -

N/A

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Clause	Possible Hazard			
5	Electrically-caused injury		<u>ک</u> ج	
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	lectrically-caused fire			
Class and Energy Source	Material part	× 7	Safeguards	4
(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, 6.4.6	N/A
PS2 🔶 🔨	Internal / external wiring	See 6.3	See 6.5	N/A
7	Injury caused by hazardous substances			
Class and Energy Source	Body Part 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	7		t.
Class and Energy Source	Body Part		Safeguards	
(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		4	
Class and Energy Source	Body Part	4	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	F 5		
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
RS2:Acoustic	Ordinary/ Instructed/ Skilled	See 10.6	See 10.6	N/A

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#### 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.

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Clause	Requirement + Test	Result - Remark	Verdic
4	GENERAL REQUIREMENTS		P
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 certified to IEC and/or national standards and are used correctly within their ratings.	P
4.1.3	Equipment design and construction	Evaluation of safeguards limiting the source supplying outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered.	P
4.1.4	Specified ambient temperature for outdoor use (°C)	A 4 4	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
1.4.3	Safeguard robustness	See below	Р
4.4.3.1	General	<u> </u>	Р
4.4.3.2	Steady force tests	(See Annex T.4)	Р
1.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests		N/A
1.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests	4	N/A
1.4.3.7	Glass fixation tests	×	N/A
	Glass impact test (1J)	A ST	N/A
4	Push/pull test (10 N)	STV 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
1.4.5	Safety interlocks	A 4	N/A
4.5	Explosion	A A	Р
1.5.1	General	(See Annex M for batteries)	P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р

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	IEC 62368-1		1
Clause	Requirement + Test	Result - Remark	Verdic
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		N/A
<u>````</u>	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:		N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	Not such equipment.	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/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/cover construction		N/A
	Open torque test	1	N/A
4.8.4.2	Stress relief test	2	N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test	1 1 1 S	N/A
4.8.4.5	Impact test	5 5	N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance	× ×	N/A
	30N force test with test probe		N/A
	20N force test with test hook	4 <del>4</del> <del>4</del>	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	Р
4.10	Component requirements		N/A
4.10.1	Disconnect Device	(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         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	La La	N/A
5.2.2.7	Audio signals	P	N/A
5.3	Protection against electrical energy sources	~ * * *	N/A

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Clause	Requirement + Test		Result - Remark	Verdic
Clause	Requirement + Test		Result - Remark	veruic
5.3.1	General Requirements for ac ordinary, instructed and skille		Only ES1 circuit generated and accessible in this equipment	N/A
5.3.1 a)	Accessible ES1/ES2 derived	from ES2/ES3 circuits		N/A
5.3.1 b)	Skilled persons not unintenti conductors	onal contact ES3 bare		N/A
5.3.2.1	Accessibility to electrical ene safeguards	ergy sources and	4	N/A
	Accessibility to outdoor equip	pment bare parts		N/A
5.3.2.2	Contact requirements	×		N/A
A.	Test with test probe from An	nex V	7	
5.3.2.2 a)	Air gap - electric strength te	st potential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm)			N/A
5.3.2.3	Compliance		1	N/A
5.3.2.4	Terminals for connecting stri	pped wire		N/A
5.4	Insulation materials and re	equirements		N/A
5.4.1.2	Properties of insulating mate	erial		N/A
5.4.1.3	Material is non-hygroscopic			N/A
5.4.1.4	Maximum operating tempera materials		4	N/A
5.4.1.5	Pollution degrees			N/A
5.4.1.5.2	Test for pollution degree 1 e insulating compound	nvironment and for an		N/A
5.4.1.5.3	Thermal cycling test			N/A
5.4.1.6	Insulation in transformers with	th varying dimensions	7	N/A
5.4.1.7	Insulation in circuits generati	ing starting pulses		N/A
5.4.1.8	Determination of working vol	Itage:	at an	N/A
5.4.1.9	Insulating surfaces	À the second sec		N/A
5.4.1.10	Thermoplastic parts on whic parts are directly mounted	h conductive metallic		N/A
5.4.1.10.2	Vicat test	· · · · ·		N/A
5.4.1.10.3	Ball pressure test			N/A
5.4.2	Clearances	A C		N/A
5.4.2.1	General requirements			N/A
	Clearances in circuits conne Alternative method	cted to AC Mains,		N/A
5.4.2.2	Procedure 1 for determining	clearance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	At N	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
	Number of layers (pcs):	4	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	the second	S 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
4	Alternative by electric strength test, tested voltage (V), <i>K</i> <sub>R</sub> :		N/A
5.4.5	Antenna terminal insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (M )		N/A
	Electric strength test	*	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	- 1 -	N/A
5.4.7	Tests for semiconductor components and for cemented joints	E A	N/A
5.4.8	Humidity conditioning	R S	N/A
A CAL	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:	A 4 4	N/A
5.4.9.2	Test procedure for routine test	4	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		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		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		N/A
5.4.11	Separation between external circuits and earth	<u>s</u>	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements	t s	N/A
d.	SPDs bridge separation between external circuit and earth	4	N/A
25	Rated operating voltage U <sub>op</sub> (V):		<u> </u>
Ť	Nominal voltage U <sub>peak</sub> (V):	A 4	
	Max increase due to variation U <sub>sp</sub> :	5	
Ţ	Max increase due to ageing U <sub>sa</sub> :	.L &	<u> </u>
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid	A C	N/A
5.4.12.1	General requirements	Ž I	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A

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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	2	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
۲.	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> ):	A E	
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

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.6	Resistance of the protective bonding system		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	ALL AN	N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm <sup>2</sup> ):		N/A
1	Class II with functional earthing marking:		N/A
A C	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	<u> </u>	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 state	N/A
5.7.4	Unearthed accessible parts:	C 4	N/A
5.7.5	Earthed accessible conductive parts:	R.	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	- 4	N/A
	Protective conductor current (mA):	* *	N/A
2	Instructional Safeguard:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	ATT T	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	AT AND	N/A
5.7.8	Summation of touch currents from external circuits	4	N/A
L'IN	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):	<u>x</u> <u>x</u>	N/A

6

ELECTRICALLY- CAUSED FIRE

Shenzhen NTEK Testing Technology Co., Ltd

Ρ

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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)	P
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 a conditions	nd abnormal operating	P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 C for unknown materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Ρ
	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	× ~ *	N/A
6.4.4	Control of fire spread in PS1 circuits	* 5	Р
6.4.5	Control of fire spread in PS2 circuits	See below.	Р
6.4.5.2	Supplementary safeguards	Compliance detailed as follows:	P
Arrest Arrest	Arter Arter Arter Arter	<ul> <li>Printed board: rated min. V- 1 class material;</li> <li>The battery packs: complying with IEC 62133-2.</li> <li>All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g).</li> <li>The internal wires ware complied to UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21</li> </ul>	aret Art
6.4.6	Control of fire spread in PS3 circuits	S.	N/A
6.4.7	Separation of combustible materials from a PIS	V-0 plastic enclosure	Р

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Clause	Requirement + Test	Result - Remark	Verdic
6.4.7.2	Separation by distance	+	N/A
6.4.7.3	Separation by a fire barrier	- ~ ~ ~ ~ ~	N/A
6.4.8	Fire enclosures and fire barriers	V-0 plastic enclosure	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	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	t t	P
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening	N/A
6.4. <mark>8</mark> .3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):	A 4 5	N/A
6.4.8.3.4	Bottom openings and properties	5	N/A
	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure	* * *	N/A
4	Instructional Safeguard:	R X Z	N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm):	Ś	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	t stat	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 plastic enclosure used	P
6.4.9	Flammability of insulating liquid		N/A
6.5	Internal and external wiring	2	Р
6.5.1	General requirements	The material of VW-1 on internal wiring were considered compliance equal to equivalent to IEC/TS 60695-11-21 relevant standards	P
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	s A S	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 protectiv	e equipment (PPE)	N/A

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

8	MECHANICALLY-CAUSED INJURY	$\langle \rangle$	P
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and co	orners	Р
8.4.1	Safeguards		N/A
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	Ρ
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	AN AN A	N/A
	MS2 or MS3 part required to be accessible for the function of the equipment	L. L.	N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard	5 5	N/A
8.5.4 🔷	Special categories of equipment containing moving parts	at sta	N/A
8.5.4.1	General	5	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		N/A
8.5.4.2.2.1	Override system	4	N/A
8.5.4.2.2.2	Visual indicator	A L	N/A
8.5.4.2.3	Emergency stop system	* *	N/A
d.	Maximum stopping distance from the point of activation (m):	A.	N/A
	Space between end point and nearest fixed mechanical part (mm)		N/A
8.5.4.2.4	Endurance requirements		N/A
* <	Mechanical system subjected to 100 000 cycles of operation		N/A

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0	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
	- Mechanical function check and visual inspection	× ×	N/A
t .	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		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	21° 7'	N/A
8.5.5	High pressure lamps	No such lamps provided.	N/A
~	Explosion test:		N/A
8.5.5.3	Glass particles dimensions (mm):	A 6 8	N/A
8.6	Stability of equipment	2	N/A
8.6.1	General		N/A
	Instructional safeguard:		N/A
8.6.2	Static stability	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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):	k k	_
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:	1 A A	N/A
8.7.2	Test methods	4	N/A
A.	Test 1, additional downwards force (N):	×	N/A
	Test 2, number of attachment points and test force (N):	At A	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)	4	N/A
8.8	Handles strength		N/A
8.8.1	General	No handle	N/A
8.8.2	Handle strength test	5	N/A

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		62368-1	~ ~ ~	
Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict
	Force applied (N)	:	t st	N/A
8.9	Wheels or casters attachment require	ements		N/A
8.9.2	Pull test	F S		N/A
8.10	Carts, stands and similar carriers			N/A
8.10.1	General	4		N/A
8.10.2	Marking and instructions		~	N/A
8.10.3	Cart, stand or carrier loading test			N/A
	Loading force applied (N)	:		N/A
8.10.4	Cart, stand or carrier impact test		2 Z	N/A
8.10.5	Mechanical stability	4		N/A
	Force applied (N)	:		N/A
8.10.6	Thermoplastic temperature stability	×	X 7 X	N/A
8.11	Mounting means for slide-rail mounted	ed equipment (S	RME)	N/A
8.11.1	General			N/A
8.11.2	Requirements for slide rails		A A S	N/A
х	Instructional Safeguard		4	N/A
8.11.3	Mechanical strength test	5	<u>a</u>	N/A
8.11.3.1	Downward force test, force (N) applied .	:		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		A S	N/A
8.12	Telescoping or rod antennas		Str. I	N/A
	Button/ball diameter (mm)			

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Р
9.3	Touch temperature limits	×	Р
9.3.1	Touch temperatures of accessible parts::	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance	5	Р
9.4	Safeguards against thermal energy sources	> ــله	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	* * *	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance		N/A

10	RADIATION		Ρ
10.2	Radiation energy source classification	4	Ρ
10.2.1	General classification	RS1: LCD display or LED	Р
	Lasers:		7 —
	Lamps and lamp systems:	LCD display or LED comply with RS1	
7	Image projectors:		<b>F</b> –
	X-Ray:	2 7 5	
<u>م</u> لہ	Personal music player:	5	
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply	the state of the	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
2	Instructional safeguard provided for accessible radiation level needs to exceed	e t	N/A
	Risk group marking and location:	A 2	N/A
	Information for safe operation and installation	5	N/A
10.4.2	Requirements for enclosures		N/A
4	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation	4	N/A
10.5.1	Requirements	X	N/A
	Instructional safeguard for skilled persons:	* *	_
10.5.3	Maximum radiation (pA/kg):	ST I	—
10.6	Safeguards against acoustic energy sources		P
10.6.1	General		Р
10.6.2	Classification		Р
<u>ل</u>	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	5	N/A
	Unweighted RMS output voltage (mV)	Maximum volume:	Р

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
کد	t shit shi	Right:134.0mV; Left:134.0mV Warning: Right: 23.0mV; Left: 22.7mV	2
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
×	30 s integrated exposure level (MEL30):	21. 4	N/A
1	Warning for MEL ≥ 100 dB(A):		N/A
10.6.4	Measurement methods		Р
10.6.5	Protection of persons		Р
1066	Instructional safeguards:	<ol> <li>Symbol</li> <li>* high sound pressure" or equivalent wording;</li> <li>* hearing damage risk" or equivalent wording;</li> <li>* do not listen at high volume levels for long periods" or equivalent wording.</li> <li>The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.</li> </ol>	P
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	at the second se	N/A
10.6.6.1	Corded listening devices with analogue input	A 5	N/A
	Listening device input voltage (mV):	5	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		N/A
×	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	5	N/A
K .		L &	Ý
в	NORMAL OPERATING CONDITION TESTS, ABNO CONDITION TESTS AND SINGLE FAULT CONDIT		Р

В	CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General	5	P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
·			

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Clause	Requirement + Test	Result - Remark	Verdic
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
4	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances		N/A
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions		P
B.3.1	General		Р
B.3.2	Covering of ventilation openings	4	N/A
5	Instructional safeguard:	×	N/A
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector	1 Ku - C	N/A
B.3.5	Maximum load at output terminals		Р
B.3.6	Reverse battery polarity		N/A
3.3.7	Audio amplifier abnormal operating conditions		N/A
3.3.8	Safeguards functional during and after abnormal operating conditions	5 7	N/A
B.4	Simulated single fault conditions	<u> </u>	Р
B.4.1	General		Р
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		Р
B.4.4.2	Short circuit of creepage distances for functional insulation	t stat	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	ANK I	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	, tet	N/A
B.4.6	Short circuit or disconnection of passive components	Star &	N/A
3.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
3.4.8	Compliance during and after single fault conditions	(See appended table B.3, B.4)	Р

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•	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
B.4.9	Battery charging and discharging under single fault conditions	(See Annex M)	Р
С	UV RADIATION	~ ~	N/A
C.1	Protection of materials in equipment from UV ra	diation	N/A
C.1.2	Requirements		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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	2 3 3	N/A
D.1	Impulse test generators	2	N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Electrical energy source classification for audio signals		N/A
÷	Maximum non-clipped output power (W):	<u></u>	
	Rated load impedance (Ω)		
	Open-circuit output voltage (V)	F 5	_
~ <del>~</del> ~	Instructional safeguard		2
E.2	Audio amplifier normal operating conditions		N/A
	Audio signal source type:	4	-0
	Audio output power (W)	*	
	Audio output voltage (V):	* 5	_
4	Rated load impedance (Ω)		_
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	Р
F.1	General		P
5	Language	English.	
F.2	Letter symbols and graphical symbols	A R	Р
F.2.1	Letter symbols according to IEC60027-1	<u>S</u>	— N/A

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Clause	Requirement + Test	Result - Remark	Verdic
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	the first	Р
F.3	Equipment markings	7 7	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	P
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		Р
F.3.3.3	Nature of the supply voltage	A 4 5	N/A
F.3.3.4	Rated voltage	4	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	5	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	+ state	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 impossible for ordinary person to replaced	N/A
F.3.5.5	Neutral conductor terminal	7	N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment	7	N/A
F.3.6.1.1	Protective earthing conductor terminal:	x x	N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking		N/A
F.3.7	Equipment IP rating marking:	* * *	N/A

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Clause	IEC 62368-1	Desult Demorts	Vardia
Clause	Requirement + Test	Result - Remark	Verdic
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions.	P
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	P
F.4	Instructions	R S	Р
	a) Information prior to installation and initial use		N/A
4	<ul> <li>Equipment for use in locations where children not likely to be present</li> </ul>	+ Att	P
	c) Instructions for installation and interconnection		N/A
	d) Equipment intended for use only in restricted access area	~	N/A
	e) Equipment intended to be fastened in place		N/A
	f) Instructions for audio equipment terminals	K K C	N/A
	g) Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits	4	N/A
	i) Graphic symbols used on equipment		N/A
4	j) Permanently connected equipment not provided with all-pole mains switch	t stat	N/A
	k) Replaceable components or modules providing safeguard function		N/A
	I) Equipment containing insulating liquid	A CONTRACT	N/A
~	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		Р
G	COMPONENTS		Р
G.1	Switches		SN/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load	5	N/A
G.1.3	Test method and compliance	.1	N/A
G.2	Relays		N/A
G.2.1	Requirements		N/A
G.2.2	Overload test	5.	— N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
G.2.3	Relay controlling connectors supplying power to other equipment	AT AN	N/A
G.2.4	Test method and compliance	~	N/A
G.3	Protective devices	×	N/A
G.3.1	Thermal cut-offs	A ST	N/A
. Co	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	4	N/A
7	Thermal cut-outs tested as part of the equipment as indicated in c)	the second se	N/A
G.3.1.2	Test method and compliance	20. 4	N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	at all al	N/A
	b) Thermal links tested as part of the equipment	5	N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors		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
G.3.5.1	Non-resettable devices suitably rated and marking provided	the the	N/A
G.3.5.2 💉	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:	2	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	the second	N/A
G.5	Wound components		Р
G.5.1	Wire insulation in wound components	4	N/A
G.5.1.2	Protection against mechanical stress	A CONTRACT	N/A
G.5.2	Endurance test	A S	N/A
G.5.2.1	General test requirements	Str.	N/A
G.5.2.2	Heat run test	4	N/A
	Test time (days per cycle)	A 4	
	Test temperature ( C)	At A	
G.5.2.3	Wound components supplied from the mains	<u> </u>	N/A
G.5.2.4	No insulation breakdown		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	Protection from displacement of windings:	4	
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		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General	N 6 4.	N/A
*	FIW wire nominal diameter	2	
G.5.3.4.2	Transformers with basic insulation only		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	L.	N/A
G.5.3.4.5	Thermal cycling test and compliance	* 4	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		N/A
G.5.4.1	General requirements	5	N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
×	Test duration (days)	4	*
G.5.4.5	Running overload test for DC motors	4	N/A
G.5.4.5.2	Tested in the unit	A S	N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit	<u>ب</u> ب	N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		P
G.5.4.7	Motors with capacitors		N/A

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G.5.4.8	Three-phase motors	* 5	N/A
G.5.4.9	Series motors		N/A
<u>``</u>	Operating voltage		
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation	2	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
X	Туре:	2 7	
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	At At at	N/A
G.7.3.2	Cord strain relief	ζ, į	N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):	x x x	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	5	N/A
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.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):	₹.	
4	Radius of curvature after test (mm):		7
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements	~	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	t S	N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A

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	IEC 62368-1	~ ~ ~	1
Clause	Requirement + Test	Result - Remark	Verdic
G.8.2.3	Temporary overvoltage test	t st	N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1 💉	Requirements		N/A
	IC limiter output current (max. 5A):		4
	Manufacturers' defined drift		
G.9.2	Test Program	4	N/A
G.9.3	Compliance	<del></del>	N/A
G.10	Resistors		N/A
G.10.1	General	2° 7	N/A
G.10.2	Conditioning	~L	N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements	. 4	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	4	N/A
G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5 with specifics	A. A.	N/A
	Type test voltage V <sub>ini, a</sub> :		
	Routine test voltage, V <sub>ini, b</sub> :	~	-0
G.13	Printed boards	×	Р
G.13.1	General requirements	x x	Р
G.13.2	Uncoated printed boards	Str. 1	Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface	At Stat	N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):	A 4	
G.13.6	Tests on coated printed boards	A 4	N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
G.14	Coating on components terminals	* *	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	2	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	2. 4	N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance	<u> </u>	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
.L	ICX tested separately		N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	* 5	
	Mains voltage that impulses to be superimposed on	AT At	_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	At A	_
G.16.3 🙏	Capacitor discharge test:	~	N/A
H	CRITERIA FOR TELEPHONE RINGING SIGNALS	×	N/A
H.1	General	* *	N/A
H.2	Method A	5	N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)	A A	
H.3.1.2	Voltage (V)	S.	1-
H.3.1.3	Cadence; time (s) and voltage (V)	<u> </u>	<u> </u>
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

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	IEC 62368-1		Vardia
Clause	Requirement + Test	Result - Remark	Verdic
H.3.2.2	Tripping device	At St	N/A
H.3.2.3	Monitoring voltage (V)		N/A
J Z	INSULATED WINDING WIRES FOR USE WITHOU INSULATION		N/A
J.1	General		N/A
	Winding wire insulation:		
5	Solid round winding wire, diameter (mm):		N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm <sup>2</sup> ):	AT SHE	► N/A
J.2/J.3	Tests and Manufacturing	~ `	N/A
ĸ	SAFETY INTERLOCKS	×	N/A
K.1	General requirements	A X X	N/A
4	Instructional safeguard:	Star L	N/A
K.2	Components of safety interlock safeguard mech	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe	4. 4	N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks	* <	N/A
K.6.1	Endurance requirement		N/A
K.6.2 💉	Test method and compliance		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	4	N/A
4	In circuit connected to mains, separation distance for contact gaps (mm):	at which	N/A
×	In circuit isolated from mains, separation distance for contact gaps (mm):	ATT T	N/A
-Jile	Electric strength test before and after the test of K.7.2	A State	N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test	4	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		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
			Í
L.3	Parts that remain energized	A 2	N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources	~	N/A
~	Instructional safeguard:	de la companya	N/A
Μ	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	P
M.1	General requirements	2 <sup>1</sup> 7	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 (See appended table 4.1.2)	Р
M.3	Protection circuits for batteries provided within the equipment	4	Р
M.3.1	Requirements		P
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
	Unintentional charging of a non-rechargeable battery		N/A
	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 battery	a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Requirements	5	Р
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 plastic enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	4	P
M.4.4.2	Preparation and procedure for the drop test	L d	Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	Three times. After a drop test, the voltage difference within 24 hours did not exceed 5%	P
M.4.4.4	Check of the charge/discharge function	Charging normally	P

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Clause	Requirement + Test	Result - Remark	Verdic
M.4.4.5	Charge / discharge cycle test	Discharging normally	Р
M.4.4.6	Compliance		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		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
M.7	Risk of explosion from lead acid and NiCd batter	ies	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m <sup>3</sup> /h):		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General	5 7	N/A
M.7.3.2	Ventilation test – alternative 1	L.	N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
5	Obtained hydrogen generation rate	1 1 V	N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):	5	N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from external with aqueous electrolyte	spark sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s)		
M.8.2.3	Correction factors:	4	1
M.8.2.4	Calculation of distance d (mm)		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage	$\mathbf{k}$	N/A

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Clause	IEC 62368-1	Desult Demorts	Vardia
Clause	Requirement + Test	Result - Remark	Verdic
M.10	Instructions to prevent reasonably foreseeable misuse	and the	Р
	Instructional safeguard:	Stated in user manual.	Р
N 🤇	ELECTROCHEMICAL POTENTIALS	A	N/A
	Material(s) used:		_
0	MEASUREMENT OF CREEPAGE DISTANCES AND	CLEARANCES	N/A
`	Value of <i>X</i> (mm):		A A
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		N/A
P.1	General		N/A
P.2	Safeguards against entry or consequences of entry of a foreign		N/A
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object	_ & ~ & ~ <i>S</i> `	N/A
×	Location and Dimensions (mm):	4	—
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
et .	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
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	4	N/A
P.3.3	Spillage safeguards	×	N/A
P.3.4	Compliance	At A	N/A
P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General		N/A
P.4.2	Tests		SN/A
	Conditioning, T <sub>C</sub> (°C):		
	Duration (weeks):	4	
Q	CIRCUITS INTENDED FOR INTERCONNECTION W		Р
Q.1	Limited power sources		Р
Q.1.1	Requirements		N/A
×-	a) Inherently limited output		N/A
	b) Impedance limited output		N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
	c) Regulating network limited output	A St	N/A
F	d) Overcurrent protective device limited output		Р
Ś	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)		N/A
Q.2	Test for external circuits – paired conductor cable	the state	N/A
×	Maximum output current (A)	1	N/A
	Current limiting method:		_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General	A 4 4	N/A
R.2	Test setup	2	N/A
	Overcurrent protective device for test:		-
R.3	Test method		N/A
<u>ــــــــــــــــــــــــــــــــــــ</u>	Cord/cable used for test:	5 5	
R.4	Compliance		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	2	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		
	Samples, material		4
	Wall thickness (mm):		
	Conditioning ( C):	4	_/
	Test flame according to IEC 60695-11-5 with conditions as set out	the sector	N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s	4	N/A
5	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:		_
	Wall thickness (mm):		<u> </u>
	Conditioning ( C):		_
S.3	Flammability test for the bottom of a fire enclosu	ire 🗸 🗧	N/A
S.3.1	Mounting of samples	4	N/A
S.3.2	Test method and compliance		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
	Mounting of samples	+	_
L	Wall thickness (mm)		
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barr where the steady state power exceeding 4 000 W		N/A
	Samples, material:		
5	Wall thickness (mm)		A
	Conditioning ( C)		2-
T L	MECHANICAL STRENGTH TESTS	5 7	Р
T.1	General		Р
Т.2	Steady force test, 10 N:		N/A
Т.3	Steady force test, 30 N:	A 4 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
Т.6	Enclosure impact test		N/A
	Fall test	Kr Kr K	N/A
	Swing test		N/A
Т.7	Drop test:	(See appended table T.7)	Р
Т.8	Stress relief test:	(See appended table T.8)	Р
Т.9	Glass Impact Test:	× ×	N/A
T.10	Glass fragmentation test	x 5	N/A
4	Number of particles counted:	No such glass provided.	N/A
T.11 🔊	Test for telescoping or rod antennas		N/A
-A	Torque value (Nm)	No such antennas provided.	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
U.1	General		N/A
4	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	A A	Р
V.1.1	General		Р
V.1.2	Surfaces and openings tested with jointed test probes		Р

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Clause	Requirement + Test	Result - Remark	Verdic
V.1.3	Openings tested with straight unjointed test probes		P
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		P
V.1.6	Terminals tested with rigid test wire	×	N/A
V.1.0 V.2	Accessible part criterion		N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEAR IN CIRCUITS CONNECTED TO AN AC MAINS NOT EX (300 V RMS)		N/A
	Clearance:		N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR	ENCLOSURES	N/A
Y.1	General	×	N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion	1	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	the state of the s	N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:	4	N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets	A L	N/A
Y.4.1 🤍	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests	2	N/A
5	Alternative test methods		N/A
Y.4.4	Compression test	A S	N/A
Y.4.5	Oil resistance	<u></u>	N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture	4	N/A
<u> </u>	Relevant tests of IEC 60529 or Y.5.3:	<u>ک</u> ــلہ	N/A
Y.5.3	Water spray test		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

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Y.5.5.2	IP5X equipment	* *	N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test		N/A

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		IEC	62368-1				
Clause	Requirement + Test			Result	- Remark		Verdict
5.2	TABLE: Classificat	tion of electrical e	nergy sour	ces	Ļ	K	Р
Supply Voltage	Location (e.g.	Test conditions		Parar	neters	~	ES Class
Voltage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	
9.0Vdc Input circuit	Normal	9.0Vrms		SS	DC	ES1	
	S'Y	Abnormal:		<i>(</i> <b>)</b> -			
		Single fault:	- 4				
Full charged		Normal	4.45Vrms		SS	DC	ES1
battery	output	Abnormal: over load		+ - 4		4 - -	
		Single fault: Battery	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	N/A			
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
- 1 4		1 - N		
- 5	<u>≁</u> - ∢			<u> </u>
Supplementary information:	A. T			4

5.4.1.10.2	TABLE: Vicat so	TABLE: Vicat softening temperature of thermoplastics							
Method			ISO 306 / B50	7					
Object/ Par	t No./Material	Manufacturer/trademark	Thickness (mm)	T softeni	ng (°C)				
		- <		<u> </u>	5				
Supplement	tary information:	~ ~ ~	5						

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics	なが	N/A
Allowed imp	ression diameter (mm):	≤ 2 mm	F —

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		IEC 62	368-1				
Clause	Requirement + T	est		Resu	t - Remark		Verdict
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ession 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								SN/A
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
۲	-						¢ ,	
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	TABLE: Minimum distance through insulation							
Distance the (DTI) at/of	rough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Measured D (mm)			
	A.	- <sup>-</sup>		<u>ا الم</u>				
Supplement	tary information:	4	at .	La				
			<u> </u>		<u>x</u> <			

5.4.4.9 TABLE: Solid in	nsulation a	sulation at frequencies >30 kHz						
Insulation material	E <sub>P</sub>	Frequency (kHz)	K <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)		
		<u> </u>	1		4			
Supplementary information:	4		4	5				
			5					

5.4.9	TABLE: Electric stre	ngth tests			N/A
Test voltage	e applied between:	T A	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	.[	2		- 5	
			*		
Basic/suppl	ementary:	A	Str.		

Report No. S23081004403001

			IEC 6236	68-1			
Clause	Requirement +	Test	A	Res	sult - Remark		Verdict
		- 4			-	4	- 4
Reinforced:		4	·	.L		~	
2		4	1		- 7		- 4
Routine Test	IS:		A.C.	7		X	St.
		~	4			25	
Supplementa	ary information:				5		1
5		.1		4		4	

5.5.2.2	TABLE:	Stored discharge c	on capacitors		4	N/A
Location	4	Supply voltage (V)	Operating and fault condition <sup>1)</sup>	Switch position	Measured voltage (Vpk)	ES Class
		<u> </u>		<u>_</u>	<b>C</b> - 4	

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 (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)			
- * *	<u> </u>		Ø 🤇				
Supplementary information:	·	7 2		X			
		4	×				

TABLE	E: Unearthed acces	ssible parts				N/A
4	Operating and	Supply	F	Parameters		ES
	fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )Current (A <sub>rms</sub> or A <sub>pk</sub> )		Freq. (Hz)	class
~			×			
ntary info	rmation:	* *			A	
on: SC= s	short circuit; OC= o	pen circuit			4	X
	ntary info	Operating and fault conditions	fault conditions Voltage (V)	Operating and fault conditions     Supply Voltage (V)     Voltage (V)	Operating and fault conditions     Supply Voltage (V)     Parameters       Image: Condition of the second state of the second sta	Operating and fault conditions     Supply Voltage (V)     Parameters       Voltage (V)     Voltage (V)     Voltage (V)     Freq. (Arms or Apk)       Image: Current (Arms or Apk)     Image: Current (Hz)     Image: Current (Hz)       Image: Current (Hz)     Image: Current (Hz)     Image: Current (Hz)

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		IEC 62368-1	
Clause	Requirement + Test	Result - Ren	nark Verdict

5.7.5	TABLE: Earthed access	ible conductive part	~	N/A		
Supply vol	Itage (V)					
Phase(s)		[] Single Phase; [] Three	Phase: [ ] Delta	[]Wye		
Power Dis	tribution System	[] TN [] TT [] IT	×			
Location	- 4	Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	ent	
- 7		1		× -		
		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:	TABLE: Backfeed safeguard in battery backed up supplies					
Location	4	Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
- ~			+ -	<u> </u>		<u>.</u>	2
Supplemen	tary inform	nation: 🔨	< <del>6</del> .			2	
Abbreviatio	n: SC= sh	ort circuit. O	C= open circuit		7		

6.2.2	TABLE: Power source	e circuit classificat	ions	×	5	Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Input circuit internal circuits	&			¢ - <		PS2(decla red)
Battery pack	Normal	3.38	19.1	64.56	5	PS2(decla red)

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		IEC 6236	68-1			
Clause	Requirement + Test	L	Re	esult - Remark		Verdict
Battery cell output		2.51	30.0	75.3		PS2(decla red)
TYPE-C output	Normal	4.62	1.5	6.93	3	PS1
	Single fault: U101 Pin A2-B3 SC	4.90	0.5	2.45	3	PS1
Supplementa	ary information:	AL.		4		4
Abbreviation	: SC= short circuit; OC=	= open circuit		4	×	A.C.
1) Measure	ed after 3 s for PS1 and	measured after 5 s	for PS2 and	PS3.		

6.2.3.1	TABLE: Determi	nation of Arcing PIS	14 C		N/A
Location	* *	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
	<u> </u>		1 - 1		
Supplemen	ntary information:		2		

6.2.3.2	TABLE: Determine	nation of resistive PIS		P
Location	.At	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
Input circu	it & internal circuits		>15	Yes*
Suppleme	ntary information:			* \$

Abbreviation: SC= short circuit; OC= open circuit

\* All internal circuits were considered as resistive PIS.

8.5.5	TABLE: High	n pressure lamp	t siv			N/A
Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	bey	icle found /ond 1 m es / No
-1			5			
Supplemen	ntary information		C)	F S		
		<u> </u>				

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				IEC 6	2368-1				
Clause	Requirer	ment + Tes	t			Result - I	Remark	-	Verdict
9.6	TABLE	: Tempera	ture measu	urements	for wireles	ss power t	ransmitter	s	N/A
Supply vol	tage (V)			:		L.		~	
Max. trans	mit power	of transmi	tter (W)	:,					
			eiver and contact		eiver and contact		ver and at of 2 mm		ver and at of 5 mm
Foreign	objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
-			<u>_</u>	-				<u>ل</u>	<u> </u>
Supplemer	ntary inform	nation:						S.	
X	1					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		

5.4.1.4,	TABLE: Temperature measurem	ents				Р
9.3, B.1.5, B.2.6	State of the second sec					
Supply volt	age (V):	Condition A	Condition B	Condition B		÷ –
Ambient ter	mperature during test <i>T</i> <sub>amb</sub> (°C) :	See below	See below	See below	-4	_
Maximum r	neasured temperature <i>T</i> of part/at:	4	Τ(	°C)	5	Allowed T <sub>max</sub> (°C)
PCB near l	J1502	43.0	67.1	78.9		130
PCB near l	J1701	43.5	59.6	71.0		130
PCB near l	J1702	43.0	-58.7	69.1		130
PCB near l	J701&U1901	39.9	68.1	79.7	4	130.
PCB near l	J2802	34.6	71.2	84.5		130
Battery Cel	11	32.3	44.7	59.9		Ref.
Battery Cel	12	33.6	43.7	59.8	-	Ref.
Battery Cel	13 13	31.5	43.5	59.8		Ref.
Battery Cel	14	33.2 🧹	43.0	59.9		Ref.
Plastic insid	de near U1502	40.0	57.0	70.3	1.	Ref.
Plastic insid	de near Battery	31.0	42.8	59.2	<u> -                                   </u>	Ref.
Ambient		25.0	25.0	40.0		

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			I	EC 62368-1				
Clause	Requirement + T	est			R	esult - Remark		Verdict
Accessib	le part at ambient 2	5°C			*		, C	4
Plastic ou	utside near U1502	4		35.1	44.2	40.6		48
Plastic ou	utside near Battery			31.9	40.4	42.4		48
Plastic ou	utside near Type-C			34.6	37.3	40.2	-	48
Button	<u></u>	~	7	30.4	33.6	32.0	5	48
Screen	F 2			29.8	36.4	37.9		48
Adapter s	surface			47.8	31.9			77
Ambient		A.C.	1	25.0	25.0	25.0	<u></u>	4
Tempera	ture T of winding:	<b>t</b> ₁ (°C)	R <sub>1</sub> (Ω	$t_2 (°C)$	$R_2$	(Ω) T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
		, T		2			<u>_</u>	×
Suppleme	entary information:	N.	7			*		

1. The manufacturer's specified maximum operation temperature for charging is 25.0°C, maximum operation temperature for discharging is 40°C.

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

3. The temperature test is for Portable Computer

Condition A: Only charging.

Condition B: Charging fully discharged battery, EUT operated normally.

Condition B: Fully charged battery, EUT operated normally.

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

B.2.5	TAE	BLE: Inpu	ut test		1			P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/stat
5VDC		2.85	3					Condition A
		1 CT	4	t de	. Alt	- Arith	4	Battery cell 1 charging current: 1.01A
		d.	STER	A.C.	5		A CONTRACTOR	Battery cell 2 charging current: 1.15A
					AND	4	×.	Battery cell 3 charging current: 0.97A
	Ś	¢t.	A.C.	4		STEE	4 CT	Battery cell 4 charging current: 1.09A
5VDC		2.71	3	<u>_</u>	~ - <i>`</i>			Condition A
							K Et	Battery cell 1 charging current: 0.75A
			at al	t s	STV I			Battery cell 2 charging current: 0.90A
	it.	4	+د		ot sit			Battery cell 3 charging current: 0.83A
		. at	A.C.	V			* <	Battery cell 4 charging current: 0.89A
9VDC		2.05	3		-			Condition A
		.at	AN COL	A.	4. 4	- Stat	4	Battery cell 1 charging current: 0.86A
	5			x	4 Charles	~ ~	Ket	Battery cell 2 charging current: 1.11A
	A.	¢.	STATE &		NOT -	41 <sup>40</sup>		Battery cell 3 charging current: 0.85A
			¥ 4		7	at.	AN OF	Battery cell 4 charging current: 0.94A

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Clause	Req	uirement +	Test		Result - Re	mark	Verdict
9VDC		1.83	3		 	L	Condition A
4	4	A.	Arit	A.C.	≠ 4 <sup>°</sup> + 4°		Battery cell 1 charging current: 0.72A Battery cell 2 charging current: 0.84A
4 C		4	A.	AN CON	4		Battery cell 3 charging current: 0.76A
		A A	4	×	AT C	4	Battery cell 4 charging current: 0.74A

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%.

Condition A: Off mode, supplied by adapter, charging with an empty battery only.

Condition B: On mode, charging fully discharged battery by external power supply, EUT operated normally.

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			IEC 62	300-1		<del>\</del>	
Clause	Requirement + Tes	st		< 2	Result - R	emark	Verdict
B.3, B.4	TABLE: Abnorma	al operating	and fault	condition t	ests	AL CAR	Р
Ambient terr	nperature T <sub>amb</sub> (°C)	<u> </u>				See below	_
Power source	e for EUT: Manufa	cturer, mode	l/type, out	outrating :			-0
Component	No. Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	n 🎸
Off mode, si	upplied by power a	dapter, charg	ing with a	n empty bat	tery only		¥
U1701 Pin1	-14 SC	9V Max.	7hrs	A Land		Unit normal operation battery charged for no damage, no haza Battery, no emission explosion and chem leaks.	7hours. Irds. 1,
C1707	SC SC	9V Max.	10mins		AN COL	After SC, Unit shut c immediately, no dam hazards. Battery no leaks, no explosion.	nage, no
R1715	SC	9V Max.	10mins	×	STOT -	After SC, Unit shut c immediately, no dam hazards. Battery no leaks, no explosion.	nage, no
On mode, cl	harging fully discha	rged battery	by power	adapter, EU	T operate	d normally.	
U1701 Pin1	-14 SC	9V Max.	7hrs	- 4	<del>،</del> خ	Unit normal operation battery charged for no damage, no haza Battery, no emission explosion and chem leaks.	7hours. Irds. 1,
C1707	SC	€ 9V Max.	10mins	-	- 4	After SC, Unit shut c immediately, no dam hazards. Battery no leaks, no explosion.	nage, no
R1715	SC	9V Max.	10mins	R-	-Ari	After SC, Unit shut c immediately, no dam hazards. Battery no leaks, no explosion.	nage, no
Speaker	SC SC	9V Max.	10mins		ATE	After SC, Unit norma operation, speaker r no damage, no haza Battery no fire, no le explosion.	io output, irds.
On mode, si	upplied by fully cha	rged battery,	EUT oper	ated norma	lly.	A 2	
Туре-С	OL CL	4.45VDC		- 87	STOR.	Unit normal operatio damage, no hazards no emission, explosi chemical leaks.	. Battery
U2802 PIN F	-1- SC	4.45VDC	Ž		*	After SC, unit norma	l working

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7					IEC 62	368-1	A	5	
Clause	Requ	uirement	+ Test		X		Result - R	emark	Verdict
F4	¥		¥	A.C.			_	no damage, no h Battery, no emiss explosion and ch	sion,
C1707		sc	;	4.45VD	C 10mins	44		After SC, unit shu damage, no haza no fire, no leaks, explosion.	ards. Battery
R1715		sc sc	;	4.45VD	C 10mins	A.		After SC, unit shu damage, no haza no fire, no leaks, explosion.	ards. Battery
Battery B- t	o P-	sc		4.45VD	C 10mins	AT THE	-4	Unit normal opera damage, no haza no fire, no leaks, explosion.	ards. Battery
Battery pac output "+" te	:k o "-"	sc sc		4.45VD	C 10mins	S.C.	A.	After SC, unit shu damage, no haza no fire, no leaks, explosion.	ards. Battery
Battery B- a B+	and	sc	a let	4.45VD	C 10mins	- 	A COL	After SC, unit shu damage, no haza no fire, no leaks, explosion.	ards. Battery
Type-c outp	out	sc		4.45VD	C 10mins			Unit normal opera no output, no dar hazards. Battery leaks, no explosio	nage, no no fire, no
Speaker		sc	;	4.45VD	C 10mins	-4-	4	Unit normal opera speaker abnorma damage, no haza no fire, no leaks, explosion.	al, no ards. Battery
Supplemen	itary in	formatior	า:		4			×	5
1. SC=Sho	rt circu	uit, OL=O	ver Loa	ad		4		* 5	
M.3	ТА	BLE: Pro	otectio	n circuit	s for batteri	es provide	ed within t	he equipment	Р
Is it possibl	le to in	stall the	battery	in a reve	erse polarity	position?	:	No	
					×	Ch	arging		~
Equipment	t Spec	ification		2	Voltage (V)			Current (A)	
1	~	4		See	e marking pla	ite		See marking pl	ate
						Battery	specificatio	n	4
			Non-re	echargea	ble batteries		Recha	argeable batteries	
Manufa	cturer	'type	Discha curre		Jnintentional charging current (A)	C Voltage (	Charging V) Curre	Discharging current (A)	

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Clause	Requirement	+ Test			Result -	Remark	4	Verdict
Shenzhen Hu Tong Techno / 398091(bat	logy Co.,Ltd	* -		4.45	2	.75	5.5	- 4
Note: The tes	sts of M.3.2 a	re applicable only v	when abov	/e appropria	ate data is	not availa	able.	Â
Specified bat	tery tempera	ture (°C)			: 0 to 6	50°C		5
Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observ	ation
Battery	Normal condition	Charge	Article Article	See table 5.4.1.4	Battery cell 1 chargin g current: 1.01A Battery cell 2 chargin g current: 1.15A Battery cell 3 chargin g current: 0.97A Battery cell 4 chargin g current: 1.09A	4.45 max.	Unit normal NL, NS, NE, hazard.	
Battery	U1701 Pin1-14 SC	Charge	7hrs	See Annex B.3, B.4	Battery cell 1 chargin g current: 1.78A Battery cell 2 chargin g current: 1.82A Battery cell 3 chargin g current: 1.75A Battery	4.45 max.	Unit normal NL, NS, NE, hazard.	operation NF. No

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Clause	Requirement +	Tost			Result -	Remark		Verdict
Jiause	Requirement +	· Test				Remark	×-	veruici
t "Q		t stat			chargin g current: 1.76A	A.C.	A.C.	
Battery	Normal condition	Discharge	A CONTRACT	See table 5.4.1.4	Battery cell 1 chargin g current: 1.15A Battery cell 2 chargin g current: 1.17A	4.45 max.	Unit normal NL, NS, NE hazard.	
	aret a			stat	Battery cell 3 chargin g current: 1.13A Battery cell 4 chargin g current: 1.14A	A.	THE AND	
Battery	Type-C Overload	Discharge	t the	See Annex B.3, B.4	Battery cell 1 chargin g current: 1.74A Battery cell 2	4.45 max.	Unit normal NL, NS, NE hazard.	operation , NF. No
	for the state			A.	chargin g current: 1.82A Battery cell 3 chargin g	¢.	ANT -	
				*	current: 1.70A Battery cell 4 chargin g current:	-25	\$ <del>\$</del>	

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			IE	C 62368-1			
Clause	Requirer	ment + Test	4		Result - Re	emark	Verdic
Supplementa	ry inforn	nation:					4
		ort circuit; OC: emission of fla				NS= no spillage of I	iquid; NE⊧
<u> </u>	,			* \$		1	
	TABLE: battery	Charging sat	feguards for	equipment c	ontaining a	secondary lithium	P
Maximum sp	ecified c	harging voltage	e (V)		.: See below	1	
Maximum sp	ecified c	harging curren	t (A)		.: See below		X
Highest spec	ified cha	arging tempera	ture (°C)		.: See below	T K	~
		rging temperat					
Battery		Operating		Measurement		Observati	on
manufacturer	/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Shenzhen Hu Tong Techno Co.,Ltd / 398091(batte	ology	Normal	4.45V max.	Battery cell 1 charging current: 1.01A Battery cell 2 charging	See table 5.4.1.4	No explosion, no o leaks, no damage hazard.	
		+STEET	Artek	2 charging current: 1.15A Battery cell 3 charging current: 0.97A	r 17	at site	
		(t 4		Battery cell 4 charging current: 1.09A	4	et alle	
		Single fault U1701 Pin1- 14 SC	4.45V max.	Battery cell 1 charging current: 1.78A	R	No explosion, no o leaks, no damage hazard	
				Battery cell 2 charging current: 1.82A	See table	with	
		A.C.	A.	Battery cell 3 charging current: 1.75A	B.3 B.4		
		STR.	4	Battery cell 4 charging current: 1.76A	AND -	An	
		-			1		<b>V</b>

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Clause	Require	ement + Test			Result - I	Remark	Verdict
<del>ب</del> ۲	¢	HSCT		4 X	surface: 60°C	battery cell reach unit stop charging damage, no haza Charging current:	ı. No rd.
		Abnormal- LSCT	4.45V max.	<	Battery surface: 0°C	When the temper battery cell reach Battery charging of	ed 0°C,

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 inter	nded for inte	rconnection	with build	ing wiring (	(LPS)	P
Output	Condition			I <sub>sc</sub> (	A)	S (\	/A)
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit
TYPE-C	Normal	5.1	4	1.5	8.0	6.93	100
output	Single fault: U101 Pin A2-B3 SC	5.0		1.58	8.0	7.43	100
Suppleme	ntary Information:			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4		
		<u></u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Ń	

ire	Material	Thickness (mm)	Probe	Force (N)	Test Duration	Observation
ire	Plastic				(s)	
A-	, and the second	AN THE	ANTER -	100	5	TS3 energy sources not become accessible
ure	Plastic		AT IT	100	5	TS3 energy sources not become accessible
	Plastic	5 - 10 -	S. COL	100	5	TS3 energy sources not become accessible
		4	Plastic	Plastic	Plastic 100	Plastic          100         5

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		IEC	C 62368-1			
Clause	Requirement	+ Test		Result - Remar	'k	Verdict
T.6, T.9	TABLE: Imp	act test			- 1	N/A
Location/Pa	art_	Material	Thickness (mm)	Height (mm)	Observatio	n
- 4			3 €		<b>.</b>	R.C.
Supplemen	tary information	: <u> </u>			A.	~
4			A		7	

T.7 TABLE: D	Drop test			P
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
Top of enclosure	Plastic	4	1000	TS3 energy sources not become accessible
Side of enclosure	Plastic	, ,	1000	TS3 energy sources not become accessible
Bottom of enclosure	Plastic	A.	1000	TS3 energy sources not become accessible
Supplementary information	ition:		X	

Т.8	TABLE: S	tress relief te	est			P
Location/Par	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure		Plastic	\$ - 4°	70	7	No damage, no hazards.
Supplement	ary informa	tion:			K	

5			A.C.		~
Х	TABLE: Altern	ative method for determini	ing minimum clearance	s distances	N/A
Clearance between:	e distanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm	
4		Ţ			4
Suppleme	entary information:	* 8		4	

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Clause 🚽	Requ	uirement + Test		Result	- Remark	Verdict
			~ ~			a 2
4.1.2	TAB	LE: Critical comp	onents informati	on	* *	Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
AC adapter	Λ.	Shenzhen Huajin Electronics Co., Ltd	HJ-C6-33-EU	Input: 100- 240V~, 50/60Hz, 0.8A. Output: 5.0Vdc 3.0A, 9.0Vdc 3.0A, 12.0Vdc 2.5A, 15.0Vdc 2.0A, 20.0Vdc 1.5A, PPS 3.3V-11.0V	IEC 62368- 1:2018	eurofins Test report no.: EFGX230403 36-IE-01-L01
				3.0A 33W Max.		
Plastic enclosure	4	Guangzhou Webond Technology Co Ltd	102(A)	V-0, 80°C, Min 0.8 mm thickness	UL 94	UL E526881
РСВ		Interchangeable	Interchangeable	V-0, 130ºC.	UL 796	UL
Rechargeab Li-ion battery		Shenzhen Hua Tian Tong Technology Co.,Ltd	Li398091HTT-B	3.87V, 22000mAh, 85.14Wh	IEC 62133- 2:2017, IEC 62133- 2:2017/AMD1:202 1	CTC test report No.: CTC2023073 0S03
LED	F	Jiangsu Amicc Opto-Electronics Technology Co., Ltd	A-SL686W1D- J04-4T	Exempt group	IEC62471:2006	SGS report No.: SHES190501 572001
LCD display		SHENZHEN JILANTE TECHNOLOGY CO.LTD	JLT104HN2023 5P51-36D05- 18Y-B	10.36inch	IEC 62368-1	Tested with appliance
Motor	10	Tianchang Hengbo Intelligent Technology Co., Ltd.	1027HL15P02T 01A	DC 3.0V 10000 rpm	IEC 62368-1	Tested with appliance
Speaker Rig	ht	Harman International Industries, Incorporated	EFXHEA060X0 987X002	4% Ω ±15% Rate power:2.0W	IEC 62368-1	Tested with appliance
Speaker Lef	t	Harman International Industries, Incorporated	EFXHEA060X0 987X001	4% Ω ±15% Rate power:2.0W	IEC 62368-1	Tested with appliance

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		A S	IEC 62368-1	A S	•	
Cla	use	Requirement + Test		Result - Remark		Verdict
1)	Provide	d evidence ensures the agreed	level of compliance. Se	ee OD-CB2039.	KE	Č,
2)	License	available upon request.				

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	IEC	62368_1E - ATTAC	CHMENT	
Clause	Requirement + Test		Result - Remark	Verdict
		CHMENT TO TES		
		IEC 62368-1		
	EUROPEAN GROUP D	IFFERENCES AND	NATIONAL DIFFERENCES	
(AUDI		COMMUNICATIO	N TECHNOLOGY EQUIPMENT - P	ART 1:
Difference	es according to: EN			
Attachme	nt Form NoEU_	_GD_IEC62368_1E		
Attachme	nt Originator: UL(	Demko)		
Master At	tachment 202	1-02-04		
Converienté	@ 2024 JEC Suptom for Confe	rmity Testing and	Contification of Electrical Equipm	
	Geneva, Switzerland. All rights		I Certification of Electrical Equipm	lent
.L-	CENELEC COMMON MODI	FICATIONS (EN)		Р
×	Clause numbers in the cells	that are shaded ligh	nt grey are clause references in EN	Р
	IEC 62368-1:2020+A11:2020 those in the paragraph below		numbers in that column, except for	
	Clauses, subclauses, notes, those in IEC 62368-1:2018 a		annexes which are additional to	
	Add the following annexes:	. 6	5	Р
	Annex ZA (normative) with their corre	Normative reference esponding Europear	ces to international publications	
	Annex ZB (normative)	Special national co	onditions	Ś
	Annex ZC (informative)	A-deviations		
	Annex ZD (informative) cords	IEC and CENELEC	C code designations for flexible	
1 💉	Modification to Clause 3.			1
3.3.19	Sound exposure	<u> </u>	1 - S	N/A
	Replace 3.3.19 of IEC 62368	3-1 with the followin	ng definitions:	
3.3.19.1	momentary exposure level	, MEL 🔬		N/A
	metric for estimating 1 s sour the HD 483-1 S2 test signal a channels, based on EN 5033	applied to both	om	Ę.
				1
	Note 1 to entry: MEL is measured a		B.	
	Note 2 to entry: See B.3 of EN 5033	2-3-2017 for additional		1

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	IEC62368_1E - ATTACHM	ENT 🔶	
Clause	Requirement + Test	Result - Remark	Verdict
3.3.19.3	sound exposure, <i>E</i>	to the second	N/A
	A-weighted sound pressure $(p)$ squared and integrated over a stated period of time, $T$	+ Are	
	Note 1 to entry: The SI unit is $Pa^2 s$ .	at stat	- Arr
	$E = \int_{0}^{0} p(t)^2 dt$		1
3.3.19.4	sound exposure level, SEL	+ 4	N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E</i> <sub>0</sub> , typically the 1 kHz threshold of hearing in humans.	ATT ATT	
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	at star	STAT S
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	4	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	stat stat st	
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.	ATTEN A	A.
2	Modification to Clause 10	1	
10.6	Safeguards against acoustic energy sources		P
	Replace 10.6 of IEC 62368-1 with the following:		X
10.6.1.1	Introduction		P
	<b>Safeguard</b> 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	with with	A COL
	intended for use by an <b>ordinary person</b> , that: – is designed to allow the user to listen to audio or audiovisual content / material; and		

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#### IEC62368\_1E - ATTACHMENT

Clause	Requirement + Test		Result - Remark	Verdict
	– uses a listening device, such a	is headphones or	1	
	earphones that can be worn in or			
	around the ears; and			
	– has a player that can be body	worn (of a size 🗸		
	suitable to be carried in a clothing		·	
	is intended for the user to walk a			
	continuous use (for example, on	a sileei,		
	in a subway, at an airport, etc.).			
	EXAMPLES Portable CD players, MP3 a phones with MP3 type features, PDAs or		4	
	Personal music players shall con			
	requirements of either 10.6.2 or 1	10.6.3.		
	NOTE 1 Protection against acoustic ener telecom applications is referenced to ITU		de la companya	*
	NOTE 2 It is the intention of the Committee			
	alternative methods for now, but to only u			~
	measurement method as given in 10.6.5			
	manufacturers are encouraged to implem possible.	ient 10.6.5 as soon as		
	possible.			
	Listening devices sold separately	shall comply with		
	the requirements of 10.6.6.			
	These requirements are valid for	music or video		~
	mode only.		<u> </u>	
	The requirements do not apply to			
		).		
	- professional equipment;			2
	NOTE 3 Professional equipment is equip special sales channels. All products sold			
	normal electronics stores are considered			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
	equipment.			
	- hearing aid equipment and othe	er devices for		
	assistive listening;			
	- the following type of analogue	nersonal music		
	players:		· · · · · · · · · · · · · · · · · · ·	
	Iong distance radio receiver (for			
	multiband radio receiver or world			
	receiver, an AM radio receiver), a	and		
	<ul> <li>cassette player/recorder;</li> </ul>			
	NOTE 4 This exemption has been allowe	d because this		
	technology is falling out of use and it is ex			-
	within a few years it will no longer exist. T			
	be extended to other technologies.	•		
		4		
	- a player while connected to an			
	that does not allow the user to wa	alk around		
	while in use.			
	For equipment that is clearly des	igned or intended		
	primarily for use by children, the			
	relevant toy standards may apply			
	in the standards may apply			
	The relevant requirements are gi	ven in		
	The relevant requirements are gr			

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	Requirement + Test		Result - Remark	Verdic
	EN 71-1:2011, 4.20 and the and measurement distance		s 🖌 🖌	
	Non-ionizing radiation fro		in	
10.6.1.2	the range 0 to 300 GHz	in radio nequencies	$\sim$	N/A
	The amount of non-ionizing	radiation is regulated	by	- 5
	European Council Recomm			
	of 12 July 1999 on the limit			
	general public to electroma	gnetic fields (0 Hz to 3	800	
	GHz).			
	For intentional radiators, IC		ld	
	be taken into account for Li			
	Time-Varying Electric, Mag			
	Electromagnetic Fields (up held and body mounted de			
	to EN 50360 and EN 50566			
10.6.2	Classification of devices		to estimate sound dose	N/A
10.6.2.1		without the capacity		
10.6.2.1	General		<u></u>	N/A
	7			
	This standard is transitionir	ng from short-term		1
	based (30 s) requirements			
	hour) requirements. These		ct	
	only for devices that do not			
	dose estimation as stipulate	ad in EN 50332-3.		
	For classifying the acoustic			
	measurements are based of			
	equivalent sound pressure		d.	
	- dan another search brossens			
	For music where the average	ge sound pressure (lor	ng	
	term LAeq, r) measured ove			
	song is lower than the aver	age produced by the		
	programme simulation nois	e, measurements may		
	programme simulation nois be done over the duration of	e, measurements may of the complete song. In		A
	programme simulation nois	e, measurements may of the complete song. In		-
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d	te, measurements may of the complete song. In uration of the song.	n	
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I	te, measurements may of the complete song. In uration of the song. husic and broadcast typically ong term $L_{Aeq,7}$ which is	n	- Arte
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I much lower than the average prog	te, measurements may of the complete song. In uration of the song. husic and broadcast typically ong term $L_{Aeq, \tau}$ which is gramme simulation noise.	n	- Arte
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I much lower than the average prog Therefore, if the player is capable	te, measurements may of the complete song. In uration of the song. husic and broadcast typically ong term $L_{Aeq, \tau}$ which is gramme simulation noise. to analyse the content and	n	- Art
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sin does not need to be given as long	te, measurements may of the complete song. It uration of the song. nusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning a sthe average sound	n	- Arter
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sin does not need to be given as long pressure of the song does not exc	te, measurements may of the complete song. It uration of the song. nusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning as the average sound eved the required limit.	n y t t t t t t t t t t t t t t t t t t	- Arth
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sin does not need to be given as long	te, measurements may of the complete song. It uration of the song. nusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning as the average sound eved the required limit. ith the programme simulation	n strict which	- Artek
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic m has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sii does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a	the, measurements may of the complete song. It uration of the song. Inusic and broadcast typically ong term $L_{Aeq, \tau}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning g as the average sound seed the required limit. ith the programme simulation busic level of the song is only warning or ask an	n strict which	- Arter
	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic n has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sii does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a acknowledgement as long as the	The complete song. In uration of the song. In uration of the song. Inusic and broadcast typically ong term $L_{Aeq,7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning g as the average sound used the required limit. the programme simulation usic level of the song is only warning or ask an average sound level of the	n strict which	- Arter
10.6.2.2	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic m has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sii does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a	te, measurements may of the complete song. It uration of the song. husic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning g as the average sound seed the required limit. ith the programme simulation usic level of the song is only warning or ask an average sound level of the of 85 dB.	n strict which	
45000 10.6.2.2	programme simulation nois be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic m has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme si does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a acknowledgement as long as the song is not above the basic limit of <b>RS1 limits (to be superse</b>	the, measurements may of the complete song. It uration of the song. Inusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning as the average sound exced the required limit. ith the programme simulation busic level of the song is only warning or ask an average sound level of the of 85 dB. ded, see 10.6.3.2)	n / Anith Anith	- kir
4000 10.6.2.2	programme simulation noise be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic m has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sii does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a acknowledgement as long as the song is not above the basic limit of <b>RS1 limits (to be superse</b> RS1 is a class 1 acoustic e	the, measurements may of the complete song. It uration of the song. Inusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning as the average sound exced the required limit. ith the programme simulation busic level of the song is only warning or ask an average sound level of the of 85 dB. ded, see 10.6.3.2)	n / Anith Anith	- side
10.6.2.2	programme simulation noise be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic m has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sin does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a acknowledgement as long as the song is not above the basic limit of <b>RS1 limits (to be superse</b> RS1 is a class 1 acoustic e not exceed the following:	the, measurements may of the complete song. It uration of the song. Inusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning as the average sound weed the required limit. ith the programme simulation usic level of the song is only warning or ask an average sound level of the of 85 dB. <b>ded, see 10.6.3.2</b> ) nergy source that does	n v h n c s s	- A
10.6.2.2	programme simulation noise be done over the duration of this case, <i>T</i> becomes the d NOTE Classical music, acoustic m has an average sound pressure (I much lower than the average prog Therefore, if the player is capable compare it with the programme sii does not need to be given as long pressure of the song does not exc For example, if the player is set w noise to 85 dB, but the average m 65 dB, there is no need to give a acknowledgement as long as the song is not above the basic limit of <b>RS1 limits (to be superse</b> RS1 is a class 1 acoustic e	te, measurements may of the complete song. It uration of the song. Inusic and broadcast typically ong term $L_{Aeq, 7}$ which is gramme simulation noise. to analyse the content and mulation noise, the warning g as the average sound ceed the required limit. ith the programme simulation usic level of the song is only warning or ask an average sound level of the <u>of 85 dB.</u> <b>ded, see 10.6.3.2)</b> nergy source that does s a package (player wir	n v h n c s s	- Sint

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Clause		62368_1E - ATTAC		Result - Remark	Verdict
Jause	Requirement + Test		2	Result - Remark	verdict
t 4	device, or where the combin listening device is known by setting or automatic detectio output shall be ≤ 85 dB wher "programme simulation noise 50332-1.	other means such and the $LAeq$ , $\tau$ acoust of playing the fixed		AND AN	
	<ul> <li>– for equipment provided wit connector (for example, a 3, allows connection to a listeni use, the unweighted r.m.s. o</li> <li>≤ 27 mV (analogue interface interface) when playing the f simulation noise" described i</li> <li>– The RS1 limits will be updated</li> </ul>	5 phone jack) that ng device for gene utput voltage shall ) or -25 dBFS (digit ixed "programme n EN 50332-1.	be al		X.Et
	per 10.6.3.2.				
0.6.2.3	RS2 limits (to be supersed	ed, see 10.6.3.3)			N/A
	RS2 is a class 2 acoustic en- not exceed the following: – for equipment provided as its listening device), and with connector between the played device, or when the combinal listening device is known by setting or automatic 130 dete acoustic output shall be ≤ 10 the fixed "programme simula described in EN 50332-1. – for equipment provided wit connector (for example, a 3, allows connection to a listeni use, the unweighted r.m.s. o ≤ 150 mV (analogue interface interface) when playing the f simulation noise" as described	a package (player a proprietary er and its listening tion of player and other means such action, the $LAeq, \tau$ 0 dB(A) when player tion noise" as h a standardized 5 phone jack) that ng device for gene utput voltage shall e) or -10 dBFS (dig ixed "programme	with as ing ral be		
0.6.2.4	RS3 limits RS3 is a class 3 acoustic en	the st		at suffit	N/A
0.6.3	exceeds RS2 limits.		<u>, ↓</u>		NIZA
	Classification of devices (r		~		N/A
0.6.3.1	General Previous limits (10.6.2) creat negative and false positive P warnings. New limits, compli Commission Decision of 23 delow.	MP sound level ant with The	en		S N/A
0.6.3.2	RS1 limits (new)				N/A
* *	RS1 is a class 1 acoustic en not exceed the following: – for equipment provided as with its listening device), and	a package (player			IN/A

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#### IEC62368\_1E - ATTA

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Clause	Requirement + Test	Result - Remark	Verdict
t Arit	connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme	- Ariet Ariet	Ariet Ariet
10.6.3.3	simulation noise" described in EN 50332-1.	<b>2</b>	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	Anter Anter Anter	
10.6.4	Requirements for maximum sound exposure		P
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	with with	P
10.6.4.2	Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic	AND AND A	P

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Clause	IEC62368_1E - A Requirement + Test	Result - Remark	Verdict
oladoo			Vordiot
	that the <b>instructional safeguard</b> shall be		
	on the equipment, or on the packaging, or instruction manual.	In the	
	Alternatively, the <b>instructional safeguard</b>	d may be	
	given through the equipment display durin		
	The elements of the instructional safegu	Jard shall	
	be as follows:		
	– element 1a: the symbol / IEC 604	417-6044	
	(2011-01)		5
	<ul> <li>– element 2: "High sound pressure" or equipation</li> </ul>	uivalent	
	wording		
	<ul> <li>– element 3: "Hearing damage risk" or equivalent of the second sec</li></ul>	uivaient	
	– element 4: "Do not listen at high volume	elevels for	1
	long periods." or equivalent wording		
			~
	An equipment safeguard shall prevent e		
	of an ordinary person to an RS2 source		
	intentional physical action from the <b>ordina</b>		
	<b>person</b> and shall automatically return to a level not exceeding what is specified for a		
	source when the power is switched off.		
	Source when the power is switched on.		
	The equipment shall provide a means to a	actively	
	inform the user of the increased sound lev	/el when	5
	the equipment is operated with an output	A CONTRACT	
	exceeding RS1. Any means used shall be		
	acknowledged by the user before activating mode of operation which allows for an out		
	exceeding RS1. The acknowledgement d		
	need to be repeated more than once ever		
	cumulative listening time.		
	NOTE 2 Examples of means include visual or audible Action from the user is always needed.	le signals.	+
	NOTE 3 The 20 h listening time is the accumulative time, independent of how often and how long the pe		
	music player has been switched off.		
	A skilled nergen shell not be unintention		
	A <b>skilled person</b> shall not be unintentional exposed to RS3.		
10.6.5	Requirements for dose-based systems		N/A
10.6.5.1	General requirements		N/A
	Personal music players shall give the war		
	provided below when tested according to		4
	50332-3, using the limits from this clause.		
	The manufacturer may offer optional setting	nas to	
	allow the users to modify when and how t		1 -
	to receive the notifications and warnings t		
	a better user experience without defeating		

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Clause	Requirement + Test	Result - Remark	Verdict
	safeguards. This allows the users to be informed in		
	a method that best meets their physical capabilities		
	and device usage needs. If such optional settings		
	are offered, an administrator (for example, parental	~ ~	
	restrictions, business/educational administrators,	÷	
	etc.) shall be able to lock any optional settings into		
	a specific configuration.		
	The personal music player shall be supplied with	~ ~ ~	
	easy to understand explanation to the user of the		
	dose management system, the risks involved, and		
	how to use the system safely. The user shall be		
	made aware that other sources may significantly		
	contribute to their sound exposure, for example	S 12	
	work, transportation, concerts, clubs, cinema, car	4	
<u></u>	races, etc.		
0.6.5.2	Dose-based warning and requirements		N/A
	When a dose of 100 % CSD is reached, and at		
	least at every 100 % further increase of CSD, the	7	
	device shall warn the user and require an		
	acknowledgement. In case the user does not		
	acknowledge, the output level shall automatically		
	decrease to compliance with class RS1.		
	decrease to compliance with class NOT.		
	The warning shall at least clearly indicate that		
	The warning shall at least clearly indicate that		
	listening above 100 % CSD leads to the risk of		
	hearing damage or loss.	<b>7</b>	
0.6.5.3	Exposure-based requirements		N/A
	With only dose-based requirements, cause and		
	With only dose-based requirements, cause and effect could be far separated in time, defying the	A A	
	effect could be far separated in time, defying the	A stat	
	effect could be far separated in time, defying the purpose of educating users about safe listening	A A AND	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a	with whet	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-	Aret Aret	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a	Arter Arter	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at.	Anter Arter	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically	ANTER ANTER	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or	ANTER ANTER	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on	Anter Arter	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.	Aniet Aniet	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on	Aniet Aniet	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level	Antick Antick	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.	Antick Antick	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or	Antit Antit	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	Antit Antit	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to	Arith Arith	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For	with with	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its	with with	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s	with with	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided	with with	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s	with with	
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level		
	effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided		

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Clause	Requirement + Test	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	<b>Corded listening devices with analogue input</b> With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound 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	with with	N/A
45 AT	output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be $\ge$ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	in the second	* *
10.6.6.2	Corded listening devices with digital input	<b>S</b>	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume	stat stat sta	
	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10	t stat	
10.6.6.3	dBFS. Cordless listening devices		N/A
	In cordless mode, – with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and – respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and	with with	- STA
	- with volume and sound settings in the receiving 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 for the above mentioned programme simulation noise, the $LAeq, \tau$ acoustic output of the listening device shall be $\leq 100$ dB with	N' Wet	t t
10.6.6.4	an input signal of -10 dBFS		
10.0.0.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.	stat street	N/A
3	Modification to the whole document		N/A

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	L L	IE	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 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	<b>~</b>
	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	A.
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	t,
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 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	to Clause 1			- 2		Р
÷	Add the follow NOTE Z1 The us electronic equipn 2011/65/EU.	wing note: se of certain subst				+ free	P

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Clause	Requirement + Test	R	Sesult - Remark	Verdict
Clause	Requirement + Test		Result - Remark	Veruici
5	Modification to 4.Z1		* *	N/A
I.Z1	Add the following new subclau	use after 4.9:		N/A
	To protect against excessive c and earth faults in circuits com <b>mains</b> , protective devices sha as integral parts of the equipm building installation, subject to and c): a) except as detailed in b) and	nected to an a.c. Il be included either ent or as parts of the the following, a), b)		* ***
	devices necessary to comply v of B.3.1 and B.4 shall be include equipment; b) for components in series with the equipment such as the sup-	with the requirements ded as parts of the th the mains input to oply cord, appliance	And An	4
	coupler, r.f.i. filter and switch, s fault protection may be provide devices in the building installat c) it is permitted for <b>pluggable</b> or <b>permanently connected</b> e	ed by protective tion; e equipment type B quipment, to rely on	Aller All	Fright .
	dedicated overcurrent and sho the building installation, provid protection, e.g. fuses or circuit specified in the installation inst	ed that the means of breakers, is fully		
	If reliance is placed on protecti installation, the installation inst state, except that for <b>pluggabl</b> the building installation shall be providing protection in accorda the wall socket outlet.	tructions shall so le equipment type A e regarded as		
6	Modification to 5.4.2.3.2.4	4		N/A
5.4.2.3.2.4	Add the following to the end o The requirement for interconne circuit is in addition given in E	ection with external	4	N/A
7	Modification to 10.2.1		1 5	N/A
10.2.1	Add the following to <sup>c)</sup> and <sup>d)</sup> in			N/A
	For additional requirements, se	ee 10.5.1.	4	

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Clause	Requirement + Test		Result - Remark	Verdict
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
3	Modification to 10.5.1			N/A
10.5.1	Add the following after the first	t paragraph:		N/A
	For RS 1 compliance is checked under the following conditions: In addition to the normal operat controls adjustable from the out any object such as a tool or a co- internal adjustments or pre-set locked in a reliable manner, are give maximum radiation whilst intelligible picture for 1 h, at the measurement is made.	ting conditions, all itside by hand, by coin, and those s which are not e adjusted so as to maintaining an e end of which the	Arter Arter	t total
	<ul> <li>NOTE Z1 Soldered joints and paint loc adequate locking.</li> <li>The dose-rate is determined by radiation monitor with an effect any point 10 cm from the outer apparatus.</li> <li>Moreover, the measurement sh fault conditions causing an incr voltage, provided an intelligible maintained for 1 h, at the end of the second s</li></ul>	y means of a tive area of 10 cm <sup>2</sup> , at surface of the hall be made under rease of the high picture is	ANTER ANTER	
-sr	Measurement is made. For RS1, the dose-rate shall no taking account of the backgrou NOTE Z2 These values appear in Dire May 1996.	ind level.		
	Modification to G.7.1		7	N/A
<b>5.7.1</b>	Add the following note: NOTE Z1 The harmonized code desig the IEC cord types are given in Annex		t t	N/A

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Clause	Requirement + Test Result - Rema	rk Verdict
10	Modification to Bibliography	N/A
¥	Add the following notes for the standards indicated:	N/A
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2.	
	IEC 60309-1 NOTE Harmonized as IN 60309-1.	
	IEC 60364 NOTE some parts harmonized in HD 384/HD 603	364 series.
	IEC 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 modif	ïed). 🗡 🛛 🔊
	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 NOTE Harmonized as EN 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-21.	
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	<u> </u>
	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	/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	
	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 <b>mains</b> socket-outlet.	
	Socket-Outlet.	
	The marking text in the applicable countries shall be	
	as follows:	<u> </u>
	In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en	
	stikkontakt med jord som giver forbindelse til stikproppens jord."	
	In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla	
	varustettuun pistorasiaan"	é.
	In <b>Norway</b> : "Apparatet må tilkoples jordet	•
	stikkontakt"	
	In Sweden: "Apparaten skall anslutas till jordat	

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		÷		
4.7.3	United Kingdom		A L	N/A
	To the end of the subclause	the following is add	ed:	
	The torque test is performed			
	complying with BS 1363, and assessed to the relevant clar			
	see Annex G.4.2 of this anno			
5.2.2.2	Denmark			N/A
	After the 2nd paragraph add	the following:		
	A warning (marking safegua	rd) for high touch		
	current is required if the touc		he	
	limits of 3,5 mA a.c. or 10 m			
5.4.11.1	Finland and Sweden			N/A
and Annex G	To the end of the subclause	the following is add	ed:	X 5
	To the end of the subclause	the following is add		~
	For separation of the telecor		k <	
	from earth the following is ap	oplicable:		4
	If this insulation is solid, inclu	iding insulation form		
	part of a component, it shall			<u> </u>
	consist of either		<u> </u>	·
	<ul> <li>two layers of thin sheet m</li> </ul>			
	shall pass the electric stre	ength test below, or		<u>s</u>
	<ul> <li>one layer having a distant</li> </ul>	ce through insulation	n of	
	at least 0,4 mm, which sh			
	strength test below.			
	If this insulation forms part a	faamioondustor		
	If this insulation forms part o component (e.g. an optocou			
	distance through insulation r		<u> </u>	لم
	insulation consisting of an in		F I	
	completely filling the casing,			
	creepage distances do not e			
	passes the electric strength the compliance clause below			
				AL-
	<ul> <li>passes the tests and inspe</li> </ul>			
	with an electric strength te			E S
	by 1,6 (the electric strengt	n test of 5.4.9 shall	be	
	performed using 1,5 kV),			4
	and		~	
		15 N	, t	
	<ul> <li>is subject to routine testin during manufacturing us</li> </ul>			
	during manufacturing, us kV.	ing a test voltage of		
	It is permitted to bridge this i	nsulation with a		
	capacitor complying with EN	60384-14 2005		



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Clause	Requirement + Test		Result - Remark	Verdict
	subclass Y2.	<b>~</b>		
	A capacitor classified Y3 accord 14:2005, may bridge this insu- the following conditions:		ALL ALL C	
	<ul> <li>the insulation requirements having a capacitor classifier EN 60384-14, which in ad- is tested with an impulse to 5.4.11;</li> </ul>	ed Y3 as defined by dition to the Y3 test	ting,	r A
	<ul> <li>the additional testing shall the test specimens as des 14;</li> </ul>			
4	the impulse test of 2,5 kV is to the endurance test in EN 603 sequence of tests as describe	84-14, in the		Arist .
.5.2.1	Norway	A CAN	4	N/A
	After the 3rd paragraph the fo	llowing is added:	.L .A	A.
	Due to the IT power system u required to be rated for the ap voltage (230 V).			
.5.6	Finland, Norway and Swede	n 🔿		N/A
	To the end of the subclause t	he following is adde	ed:	
	Resistors used as <b>basic safe</b> <b>basic insulation</b> in <b>class I</b> pl <b>type A</b> shall comply with G.10 G.10.2.	uggable equipme	nt A	
.6.1	Denmark		~ ~	N/A
	Add to the end of the subclau Due to many existing installat outlets can be protected with with higher rating than the rat	ions where the soc fuses	ket-	+ +
	outlets the protection for plug equipment type A shall be an equipment. Justification:	gable 🛛 📈	× ×	AN COL
	In Denmark an existing 13 A s protected by a 20 A fuse.	socket outlet can be	e start the start star	
.6.4.2.1	Ireland and United Kingdon	¥ _		N/A
	After the indent for <b>pluggable</b> the following is added: – the <b>protective current ration</b> this being the largest rating of <b>mains</b> plug.	ng is taken to be 13		

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.4.2.1	France	1	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added: – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.		AN ICH
5.6.5.1	To the second paragraph the following is added:		N/A
4 C	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.		AN COL
5.6.8	Norway	4	N/A
¥.	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	with with a	
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 7	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	it with	
5.7.7.1	Norway and Sweden		N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building.	with with	AT CONTRACTOR
	Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	t stat	AT OF
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	ATEL ATT	Ť.

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#### IEC62368\_1E - ATTACHME

ACHMENT	
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Clause	Requirement + Test	~	Result - Remark	Verdict
it fin	"Apparatus connected to the protective earthing the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coar cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certa frequency range (galvanic isolator, see EN 6072 11)"	xial ain 8- nd in	Arter Arter	A AND AND AND AND AND AND AND AND AND AN
	below 5 MHz. The insulation shall withstand a dielectric stren of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will a be accepted in Norway):	-	at stat st	et a
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-T\ nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en		stat stat sta	5
	galvanisk isolator mellom apparatet og kabel-TV nettet."		AN AN	7
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jord vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa medfőra risk för brand. Főr att undvika detta ska vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	fall	t with with	L.
8.5.4.2.3	United Kingdom			N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	×	fift fr	AN OF

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Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict
3.3.1 and 3.4	Ireland and United Kingdom	7	A 4	N/A
	The following is applicable:			
	To protect against excessive current circuits in the primary circuit of <b>direc</b> <b>equipment</b> , tests according to Anne B.4 shall be conducted using an exte circuit breaker complying with EN 60	<b>t plug-in</b> xes B.3.1 and ernal miniature	with with	- Aster
	rated 32A. If the equipment does not tests, suitable protective devices sha as an integral part of the <b>direct plug</b> until the requirements of Annexes B.	all be included <b>j-in equipment</b> ,		A COL
	met		2. 1	
G.4.2	Denmark			N/A
	To the end of the subclause the follo	wing is added:	A STAT	ANT &
	Supply cords of single phase appliar rated current not exceeding 13 A sha with a plug according to DS 60884-2	all be provided	A.C.	~ .
	CLASS I EQUIPMENT provided with with earth contacts or which are inter used in locations where protection a	nded to be	stat stat +	
	contact is required according to the shall be provided with a plug in according standard sheet DK 2-1a or DK 2-5a.	wiring rules ordance with		
	If a single-phase equipment having a CURRENT exceeding 13 A or if a por equipment is provided with a supply plug, this plug shall be in accordance standard sheets DK 6-1a in DS 6088 60309-2.	olyphase cord with a e with the		it for
	Mains socket outlets intended for pro to Class II apparatus with a rated cur shall be in accordance DS 60884-2- standard sheet DKA 1-4a.	rrent of 2,5 A	with still	- 4
	Other current rating socket outlets sl compliance with Standard Sheet DK or DKA 1-1c.		at what	ATEL
	Mains socket-outlets with earth shall compliance with DS 60884-2-D1:201 Standard Sheet DK 1-3a, DK 1-1c, D 5a or DK 1-7a	11	A.	stat.
	Justification:			
	Heavy Current Regulations, Section	6c		

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Clause	Requirement + Test		Result - Remark	Verdict
G.4.2	United Kingdom	4	× 4	N/A
	To the end of the subclause the	ne following is adde	d:	
	The plug part of direct plug-in assessed to BS 1363: Part 1, 12.11, 12.12, 12.13, 12.16, and the test of 12.17 is performed 125 °C. Where the metal earth	12.1, 12.2, 12.3, 12 nd 12.17, except tha at not less than	2.9, t	* ***
	Insulated Shutter Opening De requirements of clauses 22.2	vice (ISOD), the		A LAN
<b>3.7.1</b>	United Kingdom			N/A
	To the first paragraph the follo	wing is added:		
	Equipment which is fitted with cord and is designed to be con socket conforming to BS 1363	nnected to a mains by means of that	the state	stat .
	flexible cable or cord shall be plug' in accordance with the P (Safety) Regulations 1994, Sta 1994 No. 1768, unless exemp	Plugs and Sockets e atutory Instrument		
	regulations.		to the second se	S <sup>RC</sup>
	NOTE "Standard plug" is defined in S means an approved plug conforming conversion plug.			
6.7.1	Ireland			N/A
	To the first paragraph the follo	owing is added:		
	Apparatus which is fitted with cord shall be provided with a p with Statutory Instrument 525: and Conversion Adapters for I	olug in accordance : 1997, "13 A Plugs		
	Regulations: 1997. S.I. 525 pr recognition of a standard of ar	ovides for the nother Member Stat	e	
	which is equivalent to the rele			
6.7.2	To the first paragraph the follo			N/A
	A power supply cord with a co	onductor of 1,25 mm		A A A A A A A A A A A A A A A A A A A
	is allowed for equipment which and up to and including 13 A.	h is rated over 10 A	A St	

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Clause	Requirement + Test		Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DE	EVIATIONS (EN)	<b>.</b>	N/A
10.5.2	Germany	. ,		N/A
	The following requirement a	ipplies:		
	For the operation of any cat for the display of visual imag acceleration voltage exceed is required, or application of approval (Bauartzulassung)	ges operating at an ling 40 kV, authorization type	t with wi	
	Justification: German ministerial decree a (Röntgenverordnung), in for 2002-07-01, implementing th 96/29/EURATOM.	ce since		
d t	NOTE Contact address: Physikalisch-Technische Bundesar 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet		A CONTRACTOR	5

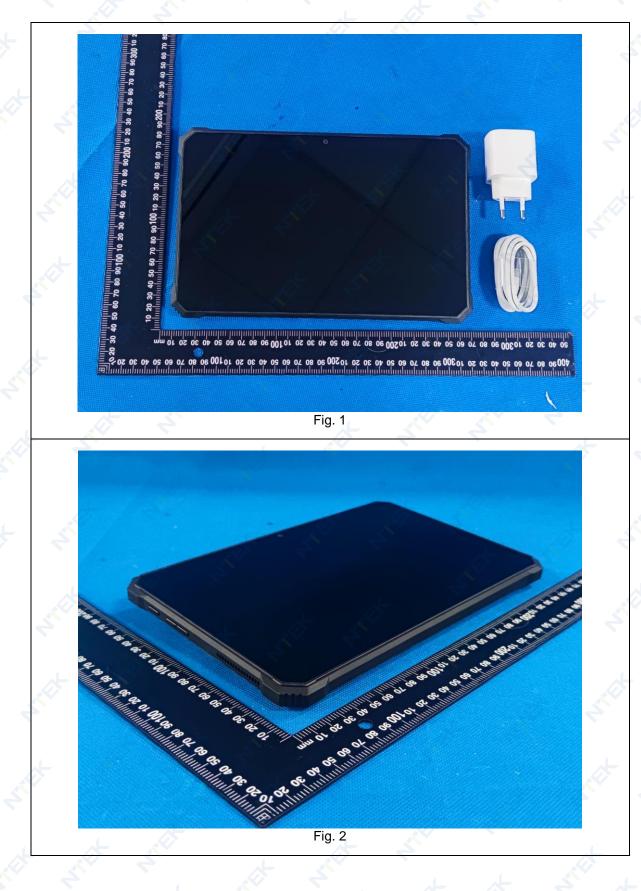
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	IEC62368_1	IE - ATTA	CHMENT	<u> </u>	
е	Requirement + Test	ALC: NO	Result - Re	mark	Verdict
	IEC and CENELEC CODE DESIGN	ATIONS F		ORDS (EN)	N/A
	Type of flexible cord		Code designations		N/A
			IEC	CENELEC	10
	PVC insulated cords				
	Flat twin tinsel cord		60227 IEC 41	нозүн-ү	
	Light polyvinyl chloride sheathed flexible	cord	80227 IEC 52	H03VV-F H03VVH2-F	STOR
	Ordinary polyvinyl chloride sheathed flex	tible cord	60227 IEC 53	H05VV-F H05VVH2-F	
	Rubber insulated cords	Ŕ		~	
	Braided cord		60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible	cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexit	ble cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible	e cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility	~			
	Rubber insulated and sheathed cord		60245 IEC 86	HO3RR-H	
	Rubber insulated, crosslinked PVC shea	thed cord	60245 IEC 87	нозрv4-н <	
	Crosslinked PVC insulated and sheathed	d cord	60245 IEC 88	<b>Н03V4V4-Н</b>	
	Cords insulated and sheathed with ha free thermoplastic compounds	alogen-	44	*	4
	Light halogen-free thermoplastic insulate sheathed flexible cords	ed and		H03Z1Z1-F H03Z1Z1H2-F	
	Ordinary halogen-free thermoplastic insu sheathed flexible cords	lated and		H05Z1Z1-F H05Z1Z1H2-F	- A

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Attachment 2 Photo

Report No. S23081004403001

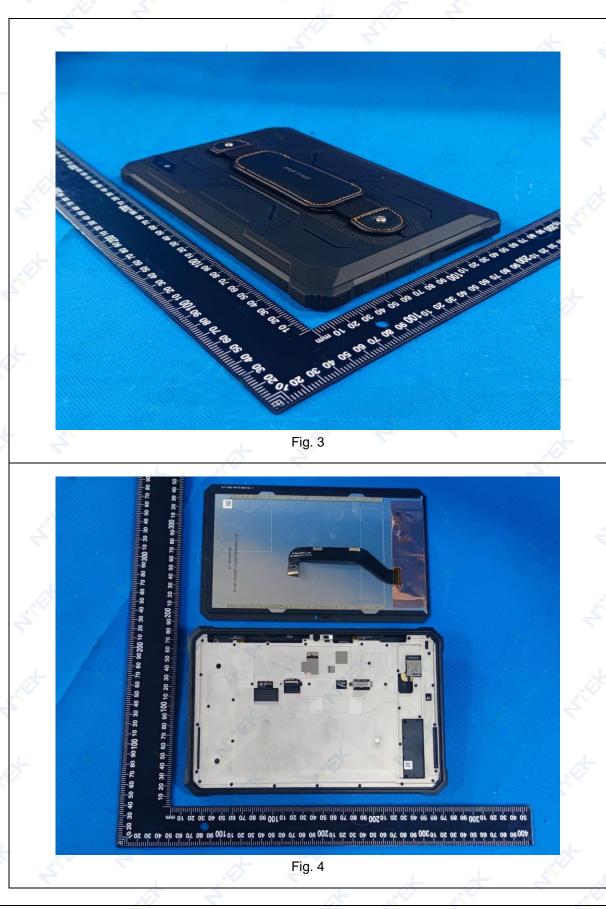




Attachment 2 Photo

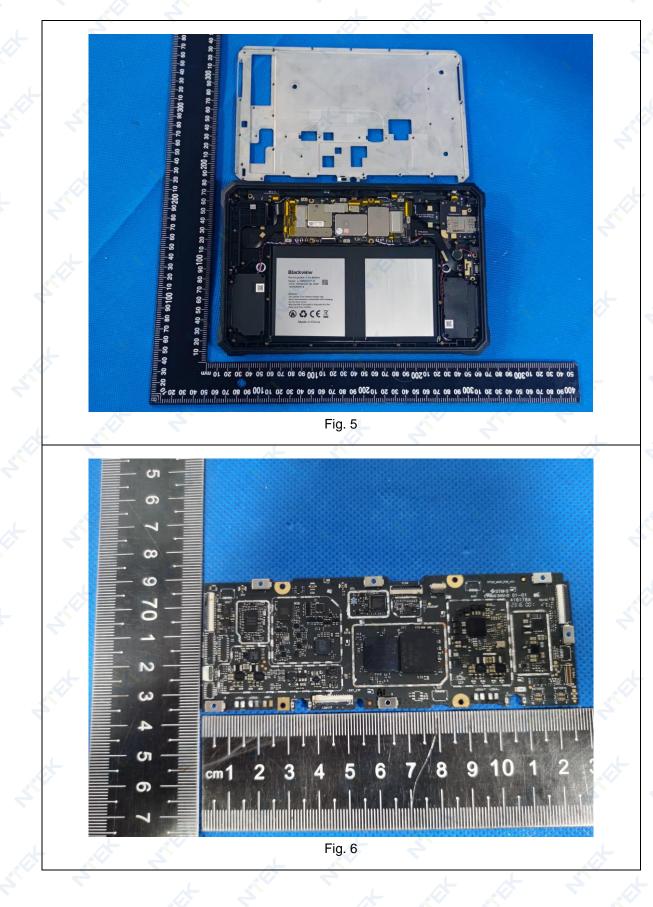
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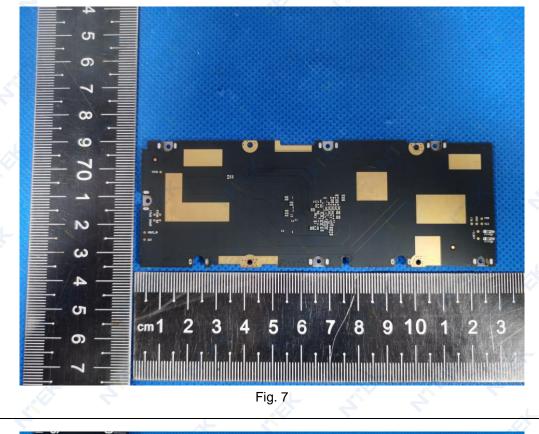
Attachment 2 Photo

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