# **TEST REPORT**

Report No.:	STS221216001001E
Product:	Smart phone
Model No.:	A53
Applicant:	DOKE COMMUNICATION (HK) LIMITED
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG 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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#### TEST REPORT IEC/EN62368-1

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

Report Number:	STS221216001001E
Tested by (+ signature):	Helen Lin Achulin Henson Dong Henson Dung
Approved by (+ signature)	Henson Dong Henson Dung
Date of issue	2023-01-12
Testing laboratory:	Shenzhen NTEK Testing Technology Co., Ltd.
Address	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126P.R. China
Testing location	Same as above
Applicant's name:	DOKE COMMUNICATION (HK) LIMITED
Address	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG CHINA
Test specification:	
Standard:	□ IEC 62368-1:2014 (Second Edition) ☑ EN 62368-1:2014+A11:2017
Test procedure:	CE Scheme
Non-standard test method::	N/A
Test Report Form No :	IEC62368_1B
Test Report Form(s) Originator:	UL(US)
Master TRF:	2014-03
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Test item	
Description	Smart phone
Trade Mark	Blackview
Manufacturer	Shenzhen DOKE Electronic Co.,Ltd
Address	801, Building 3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China
Model/Type reference	A53
Ratings	DC5.0V/2.0A or by battery 3.87V 5080mAh 19.66Wh)
Standard       :         Test procedure       :         Non-standard test method       :         Test Report Form No.       :         Test Report Form(s) Originator.       :         Master TRF       :         Copyright © 2014 Worldwide System         Equipment and Components (IECEE         This publication may be reproduced in whole or i         owner and source of the material. IECEE takes r         interpretation of the reproduced material due to i         Trade Mark         Manufacturer         Address         Model/Type reference	Image: Second State Sta

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TEST ITEM PARTICULARS:	L
Classification of use by	<ul> <li>☑ Ordinary person</li> <li>☑ Instructed person</li> <li>☑ Skilled person</li> <li>☑ Children likely to be present</li> </ul>
Supply Connection	□AC Mains □DC Mains ⊠External Circuit - not Mains connected -⊠ES1 □ES2 □ES3
Supply % Tolerance	□+10%/-10% □ +20%/-15% □+%/% ⊠ None
Supply Connection – Type	<ul> <li>pluggable equipment type A -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> <li>mating connector</li> <li>pluggable equipment type B -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>permanent connection</li> <li>mating connector X other: DC connector</li> </ul>
Considered current rating of protective device as part of building or equipment installation	N/A (Not directly connected to mains) Installation location:building;equipment
Equipment mobility	movable       hand-held       transportable         stationary       for building-in       direct plug-in         rack-mounting       wall-mounted
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV⊠other:(Not directly connected to mains)
Class of equipment:	Class I Class II Class III
Access location:	□ restricted access location
Pollution degree (PD)	□ PD 1 🖾 PD 2 🔷 🗌 PD 3
Manufacturer's specified maxium operating ambient :	40°C
IP protection class	
Power Systems	
Altitude during operation (m)	⊠2000 m or less □5000 m
Altitude of test laboratory (m)	□2000 m or less ⊠500 m
Mass of equipment (kg):	Approx. 0.213kg
POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object:	N/A

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- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	
Date of receipt of test item:	2022-12-19
Date (s) of performance of tests:	2022-12-30 to 2023-01-09

#### **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) ...... Same as manufacturer

**GENERAL PRODUCT INFORMATION:** 

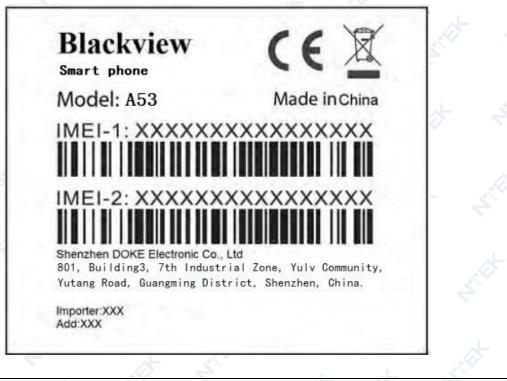
#### Product Description -

1. The product is Smart phone, which supplied by a built-in Li-ion battery and shall be charged by a suitable rated, and certified external DC power supply according to IEC/EN 62368-1 via a type C port.

Additional application considerations – (Considerations used to test a component or sub-assembly) – N/A

#### 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 Certification Bodies that own these marks.



#### NTEK 北测

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#### ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

#### Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example. +5 V dc input	EST
Source of electrical energy	Corresponding classification (ES)
All internal circuits	ES1
Micro USB	ES1 -
Charger output	ES1
Battery output	ES1
<b>Electrically-caused fire (Clause 6):</b> (Note: List sub-assembly or circuit designation and corres Example: Battery pack (maximum 85 watts):	ponding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
Internal circuits	PS2(Resistive PIS)
Battery pack/cell output	PS2(Resistive PIS)
Charger output	PS1
<b>Injury caused by hazardous substances (Clause 7)</b> (Note: Specify hazardous chemicals, whether produces of part of the component evaluation.) Example: Liquid in filled component	zone or other chemical construction not addressed as Glycol
Source of hazardous substances	Corresponding chemical
Battery pack	Complied with annex M
<b>Mechanically-caused injury (Clause 8)</b> (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	corresponding MS classification based on Table 35.) MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners of accessible parts	MS1
Product mass	MS1

#### Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Accessible parts	TS1

#### Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

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Type of radiation	Corresponding classif	Corresponding classification (RS)	
LED	RS1	×	1
Acoustic	RS2		
	ENERGY SOURCE DIAGRAM		
Indicate which operate sources are in	ocluded in the energy source diagram. Insert dia	aram bolow	

 $\boxtimes$  ES  $\boxtimes$  PS  $\boxtimes$  MS  $\boxtimes$  TS $\boxtimes$ RS

Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplement ary	Reinforced(E
Ordinary person, Skilled person	ES1: Internal circuits ES1: Micro USB port	N/A	N/A	N/A
6.1	Electrically-caused fire		L	
Material part	Energy Source		Safeguards	;
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplement ary	Reinforced
Internal combustible material/ internal plastic enclosure	PS2: Internal circuits PS2: Battery output PS1: Speaker circuit	For "N" and "A" conditions: 1, No ignition occurred. 2, No parts exceeding 90% of its spontaneo us ignition temperatu re.	For "S" condition: 1, PCB is complied with V-0 material. 2, All other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material. 3, V-0 internal plastic enclosure provided.	N/A
7.1	Injury caused by hazardous substances			
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplement	Reinforced

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Battery pack	Complied with annex M	N/A	N/A	N/A	
8.1	Mechanically-caused injury				
Body Part	Energy Source		Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplement ary	Reinforced (Enclosure)	
Ordinary person, Skilled person	MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A	
Ordinary person, Skilled person	MS1: Product mass	- N/A	N/A	N/A	
9.1	Thermal Burn				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplement ary	Reinforced	
Ordinary person, Skilled person	TS1: Accessible parts	N/A	N/A	N/A	
10.1	Radiation				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplement ary	Reinforced	
Ordinary person,Skilled person	RS1: LED	N/A	N/A	N/A	
Ordinary person, Skilled person	RS2: Acoustic	Warning: "Listening at high volume for long periods may damage your hearing" will appear when the sound exceeds RS1	K N/A ↔	N/A	

Supplementary Information:

(1) See attached energy source diagram for additional details.

(2) "N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault

#### NTEK北测

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0	IEC/EN 62368		N
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	P
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4 💉	Safeguard robustness		P
4.4.4.2	Steady force tests:	(See Annex T.4)	S P
4.4.4.3	Drop tests:	(See Annex T.7)	Р
4.4.4.4	Impact tests:		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	– N/A
4.4.4.6	Glass Impact tests:	Surface area not exceeding 0.1m <sup>2</sup>	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	Considered, but no such barrier or enclosure provided	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective	Р
4.5	Explosion	K	Р
4.6	Fixing of conductors	*	Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to:		Р
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard	* *	N/A
4.7.3	Torque (Nm)	A A	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries used	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
4	Means to reduce the possibility of children removing the battery:	- State A	—
4.8.4	Battery Compartment Mechanical Tests		N/A
4.8.5	Battery Accessibility	\$ \$	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	Р

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-	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P
5.2.2	ES1, ES2 and ES3 limits		Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	P
5.2.2.3	Capacitance limits:		N/A
5.2.2.4 💉	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses:	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals:	No ringing signals.	N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	All internal circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	the strate	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	~	N/A
5.3.2.2	Contact requirements	t t	N/A
4	a) Test with test probe from Annex V:	A A R	N/A
1	b) Electric strength test potential (V):		N/A
	c) Air gap (mm):	<u></u>	N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements	A St I	Р
5.4.1.2	Properties of insulating material		P
5.4.1.3	Humidity conditioning:	Hygroscopic material not used as insulation.	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degree:	A 2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	STOL S	N/A
5.4.1.10.2	Vicat softening temperature:	A Contraction of the second se	N/A
5.4.1.10.3	Ball pressure		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.2	Clearances		N/A
5.4.2.2	Determining clearance using peak working voltage		N/A
5.4.2.3	Determining clearance using required withstand voltage		N/A
	a) a.c. mains transient voltage	L At ST	
	b) d.c. mains transient voltage:	R S	
^	c) external circuit transient voltage:	2	
	d) transient voltage determined by measurement	+ AT STO	
5.4.2.4	Determining the adequacy of a clearance using ar electric strength test		N/A
5.4.2.5	Multiplication factors for clearances and test voltages	AT ANY AN	N/A
5.4.3	Creepage distances	Š (Š	N/A
5.4 <mark>.3</mark> .1	General		N/A
5.4.3.3	Material Group	t t	
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	4	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints	A A +	N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material	4	N/A
<u> </u>	Number of layers (pcs)		N/A
5.4.4.6.3	Non-separable thin sheet material	at si	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	At Si	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:		N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
*	Insulation resistance (MΩ):		
5.4.6	Insulation of internal wire as part of supplementary safeguard	t t t	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	it wat the	N/A
5.4.8	Humidity conditioning	<u> </u>	N/A
2	Relative humidity (%)		_
	Temperature (°C):		
	Duration (h)	S S	
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for a solid insulation type test		N/A
5.4.9.2	Test procedure for routine tests	F 3 2	N/A
5.4.10	Protection against transient voltages between external circuit	No connection to external circuits with transient voltage.	N/A
5.4.10.1	Parts and circuits separated from external circuits	A A A	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A <
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.11	Insulation between external circuits and earthed circuitry	No connection to external circuits with transient voltage.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	4 7	N/A
5.4.11.2	Requirements		N/A
~ ~	Rated operating voltage Uop(V)		
	Nominal voltage U <sub>peak</sub> (V):		
	Max increase due to variation U <sub>sp</sub> :	C	
	Max increase due to ageing ∆U₅a:	×	
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	* 5	
5.5	Components as safeguards	*	
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	4	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays	× ×	N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A

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1	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
5.5.7.1	Use of an SPD connected to reliable earthing	* 5	N/A
5.5.7.2	Use of an SPD between mains and protective earth	At an	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		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> )	,t	
5.6.4	Requirement for protective bonding conductors	× × ×	N/A
5.6.4.1	Protective bonding conductors	1	N/A
	Protective bonding conductor size (mm <sup>2</sup> )		
2	Protective current rating (A)		
5.6.4.3	Current limiting and overcurrent protective devices	Star Star St	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
1	Conductor size (mm <sup>2</sup> ), nominal thread diameter (mm).	At sta	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method Resistance (Ω):		N/A
5.6.7	Reliable earthing	At St	N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	4	N/A
4	System of interconnected equipment (separate connections/single connection):	the start of	_
*	Multiple connections to mains (one connection at a time/simultaneous connections)	A A	—
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Supply Voltage (V)	* 5	_
X	Measured current (mA)	A S	
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	I at sta	N/A
5.7.6.1	Touch current from coaxial cables	1 S S	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	+ #	N/A
5.7.7	Summation of touch currents from external circuits	t still still	N/A
- Leve	a) Equipment with earthed external circuits Measured current (mA)	the second se	N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	THE A A	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential in	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications		Р
6.2.2.1	General	1997 - 19	Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	Р
6.2.2.6	PS3:	H N	N/A
6.2.3	Classification of potential ignition sources		ęΡ
6.2.3.1	Arcing PIS:		N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	Р
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions	5	P
6.4.1	Safeguard Method	Method of "control of fire spread" is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	, t	N/A
	Special conditions if conductors on printed boards are opened or peeled	at the fire	N/A
6.4.3.3 💉	Single Fault Conditions	. 2	N/A
Ċ,	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	× 4 ×	Р
6.4.5.2	Supplementary safeguards	PCB: V-0; Fire enclosure used: V-0	F P
6.4.6	Control of fire spread in PS3 circuit		N/A
6.4.7	Separation of combustible materials from a PIS	~	Р
6.4.7.1	General		Р
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	5 2	Р
6.4.8	Fire enclosures and fire barriers		P
6.4.8.1	Fire enclosure and fire barrier material properties	× ~	Р
6.4.8.2.1	Requirements for a fire barrier	Fire enclosure provided	Р
6.4.8.2.2	Requirements for a fire enclosure	V-0 and metal used	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	the st	Р
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings on the fire enclosure.	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)		N/A
X	Needle Flame test	7 7	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)		N/A
	Flammability tests for the bottom of a fire enclosure	ALC S	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	A - 4	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 and metal used	Р
6.5	Internal and external wiring		Р
6.5.1	Requirements		P

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Clause	Requirement + Test	Result - Remark	Verdict		
6.5.2	Cross-sectional area (mm <sup>2</sup> ):	Less than 0.5mm <sup>2</sup>			
6.5.3	Requirements for interconnection to building wiring:	at the	N/A		
6.6	Safeguards against fire due to connection to additional equipment	t st	P		
	External port limited to PS2 or complies with Clause Q.1	ALL AND C	P		

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		Р
7.2	Reduction of exposure to hazardous substances	No hazardous substance is accessible.	
7.3	Ozone exposure		- N/A
7.4	Use of personal safeguards (PPE)	2 7 2	N/A
.L	Personal safeguards and instructions	5	
7.5	Use of instructional safeguards and instructions		N/A
2	Instructional safeguard (ISO 7010)		_
7.6	Batteries	(See appended tables Annex M)	P

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications		P
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners		P
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	t the t	N/A
8.5.2	Instructional Safeguard	. At	
8.5.4	Special categories of equipment comprising moving parts	at the	N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
A <sup>C</sup>	Instructional Safeguard:		—
8.5.4.2.3	Disconnection from the supply		N/A

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Claures	Dequirement L Test	-1	1/0
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.4	Probe type and force (N):		N/A
8.5.5	High Pressure Lamps	At Store	N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability Stability	Mass < 7kg	N/A
8.6.1	Product classification	MS1	N/A
7	Instructional Safeguard		_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
5	Applied Force	*	_
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt:		
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):		N/A
*	Position of feet or movable parts:	~ ~ ~	
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	the state of the s	N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength	the states of th	N/A
8.8.1	Classification	A CONTRACTOR OF	N/A
8.8.2	Applied Force:	-	N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force:	4	
8.10	Carts, stands and similar carriers	·	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
X	Instructional Safeguard:	C	
8.10.3	Cart, stand or carrier loading test and compliance	A 2	N/A
	Applied force	A S	
8.10.4	Cart, stand or carrier impact test	S. I.	N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N):		

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Clause	Requirement + Test	Result - Remark	Verdict
8.10.6	Thermoplastic temperature stability (°C):		N/A
8.11	Mounting means for rack mounted equipment	A S	N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N	* & *	N/A
8.11.4	Mechanical strength test 250N, including end stops	(v. 4.	N/A
8.12 🔷	Telescoping or rod antennas	· *	N/A
	Button/Ball diameter (mm)		_

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	TS1: accessible parts	Р
9.3	Safeguard against thermal energy sources		N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard:		N/A

	DADIATION	<u> </u>	
10	RADIATION		Р
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification		Р
10.3	Protection against laser radiation	No laser.	N/A
	Laser radiation that exists equipment:		_
	Normal, abnormal, single-fault	5	N/A
	Instructional safeguard	F (	_
- 4	Tool		
10.4	Protection against visible, infrared, and UV radiation	LED light	Р
10.4.1	General		Р
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person		N/A
ant-	Personal safeguard (PPE) instructional safeguard	~	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	LED system unit comply with RS1	Р
10.4.1.d)	Normal, abnormal, single-fault conditions	Exempt group	Р
10.4.1.e)	Enclosure material employed as safeguard is opaque	Safeguard is not required.	N/A
10.4.1.f)	UV attenuation	No UV.	N/A

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Clause	IEC/EN 62368-	Result - Remark	\/~!:-!
Clause	Requirement + Test		Verdict
10.4.1.g)	Materials resistant to degradation UV	No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation	No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions	Exempt group	Р
10.4.2	Instructional safeguard	Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment :	(See appended table B.3 & B.4)	N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards		N/A
2	Instructional safeguard for skilled person	A A	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	the service service	
X	Abnormal and single-fault condition	4	N/A
51	Maximum radiation (pA/kg)	, A	N/A
10.6			Р
10.6.1	General	5 5	Р
10.6.2	Classification	RS2	P
	Acoustic output, dB(A)	2	N/A
* 4	Output voltage, unweightedr.m.s.	Maximum volume: Right:140.0mV;Left: 140.0mV Warning: Right: 25.6V; Left: 26.0mV	Ρ
10.6.4	Protection of persons		P
AN AN	Instructional safeguards	<ol> <li>Symbol ,</li> <li>"high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.</li> </ol>	Ρ
X	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	
4 The	Means to actively inform user of increase sound pressure	Warning: hearing damage risk or equivalent wording	
	Equipment safeguard prevent ordinary person to RS2	After 20h the acoustic output not exceeding RS1	
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	No such device	N/A

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, i i i i i i i i i i i i i i i i i i i	IEC/EN 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			
10.6.5.1	Corded passive listening devices with analog input		N/A			
	Input voltage with 94 dB(A) LAeq acoustic pressure output		_			
10.6.5.2	Corded listening devices with digital input	4 X	N/A			
	Maximum dB(A) :		_			
10.6.5.3	Cordless listening device		N/A			
	Maximum dB(A)	+ 4	_			

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Ρ
B.2	Normal Operating Conditions	See the following details.	P
B.2.1	General requirements	(See summary of testing and appended table)	Р
A.C.	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	N/A
B.2.3	Supply voltage and tolerances	(See appended table B.2.5)	Р
B.2.5	Input test:	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	R	Р
B.3.1	General requirements	See below	Р
B.3.2	Covering of ventilation openings		N/A
В.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector:	No voltage selector	N/A
B.3.5	Maximum load at output terminals	No such terminals	N/A
B.3.6	Reverse battery polarity	No battery reverse polarity	N/A
B.3.7 🔷	Abnormal operating conditions as specified in Clause E.2.	At at a	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions		Р
B.4.2	Temperature controlling device open or short- circuited	No such device used.	N/A
B.4.3	Motor tests		Р
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	A Star &	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P

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IEC/EN 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
B.4.4.3	Short circuit of functional insulation on coated printed boards	the set of	N/A		
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р		
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	P		
B.4.7	Continuous operation of components		N/A		
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		P		
B.4.9	Battery charging under single fault conditions :	(See appended table M)	Р		

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	A A A	N/A
C.1.2	Requirements	5	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		N/A
C.2.3	Carbon-arc light-exposure apparatus	<u> </u>	N/A
C.2.4	Xenon-arc light exposure apparatus		N/A

D	TEST GENERATORS	N/A
D.1	Impulse test generators	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	Audio amplifier normal operating conditions	
4.	Audio signal voltage (V)	< _
	Rated load impedance (Ω)	—
E.2	Audio amplifier abnormal operating conditions	N/A

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	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	DINSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements	A 5	P
	Instructions – Language:	Instructions in English arereviewed.	_
F.2	Letter symbols and graphical symbols	* & *	Р
F.2.1	Letter symbols according to IEC60027-1	K	Р
F.2.2 🔷	Graphic symbols IEC, ISO or manufacturer specific	t at .	Р
F.3	Equipment markings	* 1 *	Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings		Ρ
F.3.2.1	Manufacturer identification:	See copy of marking plate	_
F.3.2.2	Model identification	See copy of marking plate	
F.3.3	Equipment rating markings		N/A
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains	AN AN P	N/A
F.3.3.3	Nature of supply voltage:		_
F.3.3.4	Rated voltage:	5	
F.3.3.4	Rated frequency:		
F.3.3.6	Rated current or rated power:		
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	No mains appliance outlet.	N/A
F.3.5.2	Switch position identification marking:	Not such switch.	N/A
F.3.5.3	Replacement fuse identification and rating markings:		N/A
F.3.5.4	Replacement battery identification marking:	Provided the user manual.	Р
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal	₹ 	N/A
F.3.6.1.3	Protective bonding conductor terminals	* * *	N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2.1	Class II equipment with or without functional earth	* *	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	AT A	N/A
F.3.7	Equipment IP rating marking:	IPX0	_
3.8	External power supply output marking		Р
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P
F.4	Instructions		P
<u> </u>	a) Equipment for use in locations where children not likely to be present - marking	* *	N/A
	b) Instructions given for installation or initial use	A C	Р
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area	ALL A	N/A
-	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
A CH	g) Protective earthing conductor current exceeding ES 2 limits	× + <	N/A
4	h) Symbols used on equipment		Р
	i) Permanently connected equipment not provided with all-pole mains switch	ATT S	N/A
AT CO	j) Replaceable components or modules providing safeguard function	A - 4	N/A
=.5	Instructional safeguards	Instructional safeguard is not required.	N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	the the	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
		t st		
G	COMPONENTS		Р	
G 1	Switches		NI/A	

G.1	Switches		N/A
G.1.1	General requirements	No switches.	<n a<="" td=""></n>
G.1.2	Ratings, endurance, spacing, maximum load	そうかが	N/A
G.2	Relays		N/A
G.2.1	General requirements	No relays.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	+	N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	<b>2</b>	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	the states	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	2 7 A	N/A
G.3.2	Thermal links	2	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal-links.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H)		_
	Single Fault Condition:		
	Test Voltage (V) and Insulation Resistance ( $\Omega$ ). :		
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	o G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors		N/A
G.4.1	Spacings	Not directly connected to mains	🔍 N/A 🔨
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	Star 2	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	the state of the	N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components	·	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
<u> </u>	Time (s)		
	Temperature (°C)		
G.5.2.3	Wound Components supplied by mains	F K K	N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)	A A A	N/A
	Position:	34	
	Method of protection		
G.5.3.2	Insulation		N/A
	Protection from displacement of windings		
G.5.3.3	Overload test		N/A
G.5.3.3.1	Test conditions	110	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	* -	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		Р
G.5.4.1	General requirements		P
	Position:		_
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days):		
G.5.4.5	Running overload test for d.c. motors in secondary circuits	t state	N/A
G.5.4.5.2	Tested in the unit		N/A
A.	Electric strength test (V)		_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A
4	Electric strength test (V):		—
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		Р
G.5.4.6.2	Tested in the unit		Р

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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum Temperature	(See appended table B.4)	N/A
X	Electric strength test (V):	At Street	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A
	Electric strength test (V):		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage	* 3 4	
G.6 💉	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	A 4 5	N/A
G.7	Mains supply cords	4	N/A
G.7.1	General requirements	Not directly connected to mains	N/A
	Туре		
4	Rated current (A):	AN AN A	
- C	Cross-sectional area (mm <sup>2</sup> ), (AWG):		
G.7.2	Compliance and test method	2	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	at stat	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):	4	
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	1 N	
G.7.3.2.4	Strain relief comprised of polymeric material		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	Mass (g)		—
	Diameter (m):		_
4	Temperature (°C):		_
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire	<b>4</b>	N/A
G.7.6.2.1	Test with 8 mm strand	1 1 1 S	N/A
G.8	Varistors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.8.1	General requirements	* 5	N/A
G.8.2	Safeguard against shock	At A	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test:		N/A
G.8.3.3	Temporary overvoltage	* \$ \$	N/A
G.9	Integrated Circuit (IC) Current Limiters	<u> </u>	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment.	N/A
G.9.1 b)	Limiters do not have manual operator or reset	* 5 *	N/A
G.9.1 c)	Supply source does not exceed 250 VA		
G.9.1 d)	IC limiter output current (max. 5A):		
G.9.1 e)	Manufacturers' defined drift:		
G.9.2	Test Program 1	~	N/A
G.9.3	Test Program 2	-	N/A
G.9.4	Test Program 3 🧹 🤝		N/A
G.10	Resistors	Re La C	N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test	5	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	Rat And A	N/A
G.10.3.1	General requirements	x x	N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11 🔶	Capacitor and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	1	N/A
G.11.3	Rules for selecting capacitors	×-	N/A
G.12	Optocouplers		N/A
at -	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A
5	Type test voltage Vini:	کہ تی ا	_
	Routine test voltage, Vini,b:		_
G.13	Printed boards	- A	Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р

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Clause	Requirement + Test	Result - Remark	Verdict
G.13.3	Coated printed boards	t s	N/A
G.13.4	Insulation between conductors on the same inner surface	the free	N/A
	Compliance with cemented joint requirements (Specify construction):	t stat	_
G.13.5	Insulation between conductors on different surfaces	the factor of	N/A
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Distance through insulation	(See appended table 5.4.4.5)	N/A
	Number of insulation layers (pcs)		
G.13.6	Tests on coated printed boards	7 7 7	N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test	A 4 8	N/A
G.13.6.2c)	Abrasion resistance test	~	N/A
G.14	Coating on components terminals	, A	N/A
G.14.1	Requirements:		N/A
G.15	Liquid filled components	5 2	N/A
G.15.1	General requirements		N/A
G.15.2	Requirements	× 4	N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test	K A A	N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test	<u> </u>	N/A
G.15.3.4 🧹	Vibration test	L	N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance	¥ 2	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
a) 🤝	Humidity treatment in accordance with sc5.4.8 – 120 hours	No such ICX provided within the equipment.	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage	4	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	A Stat 4	N/A
C2)	Test voltage:		
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	at at and	N/A

STS221216001001E Report No. IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause D2) Capacitance D3) Resistance ..... Н N/A **CRITERIA FOR TELEPHONE RINGING SIGNALS** H.1 General N/A H.2 Method A N/A H.3 Method B N/A H.3.1 Ringing signal N/A H.3.1.1 Frequency (Hz) ..... H.3.1.2 Voltage (V) H.3.1.3 Cadence; time (s) and voltage (V) ..... Single fault current (mA):..... H.3.1.4

H.3.2	Tripping device and monitoring voltage	7			N/A 🧹
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	*	A	Kat	N/A
H.3.2.2	Tripping device		5		N/A
H.3.2.3	Monitoring voltage (V)				
2				2	
-					

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	N/A
	General requirements	N/A

к	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	N/A
K.4	Interlock safeguard override	N/A
K.5	Fail-safe	N/A
	Compliance	N/A
K.6	Mechanically operated safety interlocks	N/A
K.6.1	Endurance requirement	N/A
K.6.2	Compliance and Test method:	N/A
K.7	Interlock circuit isolation	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):	N/A
K.7.2	Overload test, Current (A)	N/A
K.7.3	Endurance test	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
K.7.4	Electric strength test		N/A

			4
L	DISCONNECT DEVICES		N/A
L.1	General requirements	The equipment is a building-in type, evaluation is to be made during the final system approval for the disconnect device provided in that system.	N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		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

М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements		Р
M.2.2	Compliance and test method (identify method):	Approved battery used	Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		Р
M.3.3	Compliance	After above test have not created a hazard in the meaning of this standard	Ρ
M.4	Additional safeguards for equipment containing secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:		

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Clause	Requirement + Test	Result - Remark	Verdict
M.4.2.2 b)	Single faults in charging circuitry:		_
M.4.3	Fire Enclosure	Battery output: PS2, V-0 internal plastic enclosure provided	Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying	See appended table B.4	Р
M.5.1	Requirement		Р
M.5.2	Compliance and Test Method (Test of P.2.3)		Р
M.6	Prevention of short circuits and protection from other effects of electric current	See appended table B.4	Р
M.6.1	Short circuits		Р
M.6.1.1	General requirements		Р
M.6.1.2	Test method to simulate an internal fault		Р
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA):		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m <sup>3</sup> /s):		
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance <i>d</i> (mm):		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):	Provided the instructions includebattery charging, storage and transportation, and disposal and recycling.	Р

	Ν	ELECTROCHEMICAL POTENTIALS	N/A
Ļ		Metal(s) used:	_

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:	

Ρ	SAFEGUARDS AGAINST ENTRY OF FOREIGN OE INTERNAL LIQUIDS	BJECTS AND SPILLAGE OF	Ρ
P.1	General requirements N	lo openings to the internal circuits	Р
P.2.2	Safeguards against entry of foreign object N	lo safeguards requirement.	N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids N	lo internal liquids.	N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4		lo metallized coatings or adhesive ecuring parts.	N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		
	Tr (°C)		
	Ta (°C):		
P.4.2 b)	Abrasion testing		N/A
P.4.2 c)	Mechanical strength testing:		N/A



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Clause	Requirement + Test	1 Str	Result - Remark	X	Verdict

IG WIRING N/A
N/A
_

R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General requirements	N/A
R.2	Determination of the overcurrent protective device and circuit	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	N/A
-		

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	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	N/A
	Samples, material	_
	Wall thickness (mm):	
	Conditioning (°C)	
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- 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):	
	Conditioning (°C):	_

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Clause	Requirement + Test	Result - Remark	Verdict
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		
	Wall thickness (mm):		
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		
	Conditioning (test condition), (°C):		_
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A

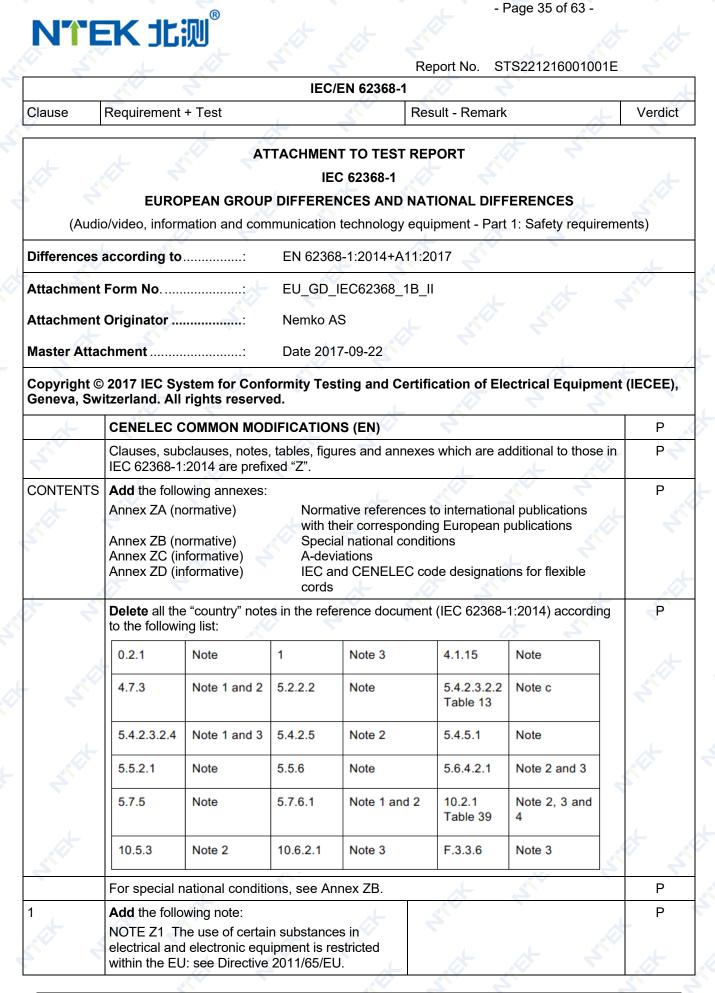
MECHANICAL STRENGTH TESTS		Р
General requirements		Р
Steady force test, 10 N		N/A
Steady force test, 30 N		N/A
Steady force test, 100 N		Р
Steady force test, 250 N	(See appended table T.5)	N/A
Enclosure impact test		N/A
Fall test	(See appended table T.6)	N/A
Swing test		N/A
Drop test:	(See appended table T.7)	Р
Stress relief test	(See appended table T.8)	Р
Impact Test (glass)	Not applicable.	N/A
General requirements		N/A
Impact test and compliance		N/A
Impact energy (J):		—
	General requirements         Steady force test, 10 N         Steady force test, 30 N         Steady force test, 30 N         Steady force test, 100 N         Steady force test, 250 N         Enclosure impact test         Fall test         Swing test         Drop test         Stress relief test         Impact Test (glass)         General requirements         Impact test and compliance	General requirementsSteady force test, 10 NSteady force test, 30 NSteady force test, 30 NSteady force test, 100 NSteady force test, 250 NSteady force test, 250 NEnclosure impact testFall testSwing testDrop testDrop testStress relief testImpact Test (glass)General requirementsImpact test and compliance

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Requirement + Test	Result - Remark	Verdict		
Height (m):		_		
Glass fragmentation test	No glass.	N/A		
Test for telescoping or rod antennas		N/A		
Torque value (Nm)		—		
	Requirement + Test         Height (m)         Glass fragmentation test         Test for telescoping or rod antennas	Requirement + Test       Result - Remark         Height (m)       Glass fragmentation test         Glass fragmentation test       No glass.         Test for telescoping or rod antennas       Height (m)		

U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A
U.1	General requirements	No CRTs.	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen		N/A

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		Р
V.1	Accessible parts of equipment		Р
V.2	Accessible part criterion		Р



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IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.Z1	Add the following new subclause after 4.9:		N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. <b>mains</b> , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		Arith
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;		K Ct
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	at when the	- 3
	c) it is permitted for <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.		4
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type</b> <b>A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	AT AT AT	4
5.4.2.3.2.4	Add the following to the end of this subclause:		N/A
	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.	at st	
10.2.1	Add the following to <sup>c)</sup> and <sup>d)</sup> in table 39: For additional requirements, see 10.5.1.	t t	N/A

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Clause	Requirement + Test		Result - Remark	Verdict
		+		Verdici
10.5.1	Add the following after the f			N/A
	For RS 1 compliance is checked under the following condition	ns:	At and	
	In addition to the normal ope controls adjustable from the any object such as a tool or internal adjustments or pres locked in a reliable manner, give maximum radiation whi intelligible picture for 1 h, at measurement is made.	outside by hand, by a coin, and those ets which are not are adjusted so as to Ist maintaining an the end of which the	sitet whet wh	et son
	NOTE Z1 Soldered joints an examples of adequate locking			
	The dose-rate is determined radiation monitor with an effi- at any point 10 cm from the apparatus.	ective area of 10 cm <sup>2</sup> ,	wet with	ATR A
	Moreover, the measuremen fault conditions causing an in voltage, provided an intelligi maintained for 1 h, at the en measurement is made.	ncrease of the high- ble picture is		ATTEN A
	For RS1, the dose-rate shall taking account of the backgr		4 4	A 4
	NOTE Z2 These values app 96/29/Euratom of 13 May 19		4	5
10.6.1	Add the following paragraph subclause:	n to the end of the		N/A
	EN 71-1:2011, 4.20 and the and measurement distances			
10.Z1	Add the following new subc	lause after 10.6.5.	5	N/A
	10.Z1 Non-ionizing radiation frequencies in the range 0			× ×
	The amount of non-ionizing by European Council Recon 1999/519/EC of 12 July 199 exposure of the general pub fields (0 Hz to 300 GHz).	nmendation 9 on the limitation of	et and an	
	For intentional radiators, ICN be taken into account for Lin Time-Varying Electric, Magn Electromagnetic Fields (up t held and body-mounted dev to EN 50360 and EN 50566	niting Exposure to netic, and o 300 GHz). For hand- rices, attention is drawr		AN RAT RE
G.7.1	Add the following note:	~	4 5	N/A
	NOTE Z1 The harmonized corresponding to the IEC co Annex ZD.		4st l	1

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4			EC/EN 62368-					
Clause	Requirement + Test	t		Result - Remark	Verdict			
Bibliography	Add the following s	tandards:		* *	Р			
	Add the following n	otes for the stand	dards indicated					
	IEC 60130-9	NOTE Harmonia	zed as EN 601	30-9.	X			
	IEC 60269-2	NOTE Harmonia	zed as HD 602	69-2.				
	IEC 60309-1 NOTE Harmonized as EN 60309-1.							
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.							
	IEC 60601-2-4	NOTE Harmoniz	zed as EN 6060	01-2-4.				
	IEC 60664-5	NOTE Harmoniz	ed as EN 6066	64-5.				
	IEC 61032:1997	NOTE Harmoniz	ed as EN 6103	32:1998 (not modified).	4			
	IEC 61508-1	NOTE Harmoniz	ed as EN 6150	08-1.				
	IEC 61558-2-1	NOTE Harmoniz	ed as EN 615	58-2-1.				
4ª	IEC 61558-2-4	NOTE Harmoniz	ed as EN 615	58-2-4.				
	IEC 61558-2-6	NOTE Harmoniz	ed as EN 615	58-2-6.	0 - S			
	IEC 61643-1	NOTE Harmoniz	ed as EN 6164	43-1. 🖉 <				
	IEC 61643-21	NOTE Harmoniz	ed as EN 6164	43-21.				
	IEC 61643-311 NOTE Harmonized as EN 61643-311.							
	IEC 61643-321 NOTE Harmonized as EN 61643-321.							
	IEC 61643-331	NOTE Harmoniz	ed as EN 6164	43-331.				
ZB	ANNEX ZB, SPEC	IAL NATIONAL	CONDITIONS	; (EN)	Р			
4.1.15	Denmark, Finland	, Norway and Sv	veden		N/A			
	To the end of the se	ubclause the follo	wing is added:	:				
	Class I pluggable connection to other if safety relies on co if surge suppressor network terminals a marking stating tha connected to an ea	equipment or a nonnection to relia s are connected and <b>accessible</b> p t the equipment s	network shall, ble earthing or between the earts, have a shall be		42rte			
	The marking text in be as follows:	the applicable co	ountries shall	t it	L'AN			
	In <b>Denmark</b> : "Apparatetsstikprop jordsom giver forbir			t and an				
	In <b>Finland</b> : "Laite o liitettäväsuojakoske "		unpistorasiaan	+ Ret				
	In Norway: "Appara	atetmåtilkoplesjor	rdetstikkontakt"	, 🥂 🧹				
	In <b>Sweden</b> : "Appar jordatuttag"	atenskallanslutas	s till	4	et.			
1.7.3	United Kingdom				N/A			
	To the end of the s	ubclause the follo	wing is added:					
	The torque test is p complying with BS assessed to the rel	erformed using a 1363, and the plu	a socket-outlet ug part shall be		*			

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Clause	Dequirement L Test		Deput Demark	Vordiat
Jause	Requirement + Test		Result - Remark	Verdict
5.2.2.2	Denmark		A A	N/A
	After the 2nd paragraph add	•	At Strain	
	A warning (marking <b>safegua</b> <b>current</b> is required if the <b>tou</b>			
	the limits of 3,5 mA a.c. or 10			4
5.4.11.1 and	Finland and Sweden		* & *	N/A
Annex G	To the end of the subclause t	the following is added:		
	For separation of the telecom from earth the following is ap			
	If this insulation is solid, inclu forming part of a component, consist of either			
	• two layers of thin sheet mat shall pass the electric strengt		dt.	
	• one layer having a distance at least 0,4 mm, which shall p strength test below.		ATHE AT A	
	If this insulation forms part of component (e.g. an optocoup distance through insulation re- insulation consisting of an ins completely filling the casing, s and creepage distances do r component passes the electr accordance with the complian in addition	oler), there is no equirement for the sulating compound so that clearances not exist, if the ic strength test in	with with with	
	• passes the tests and inspec with an electric strength test of 1,6 (the electric strength test performed using 1,5 kV), and	of 1,5 kV multiplied by of 5.4.9 shall be	and and are	
	• is subject to routine testing to during manufacturing, using a 1,5kV.		4° +	K Ct
	It is permitted to bridge this in capacitor complying with EN subclass Y2.		t stat sta	
	A capacitor classified Y3 accord 14:2005, may bridge this insu- following conditions:			AND
	• the insulation requirements having a capacitor classified 60384-14, which in addition to tested with an impulse test of 5.4.11;	Y3 as defined by EN o the Y3 testing, is	AND A	fret -
	• the additional testing shall b the test specimens as describ	bed in EN 60384-14;	At Ar	
	the impulse test of 2,5 kV is to before the endurance test in sequence of tests as describe	EN 60384-14, in the		

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line	the state of	N/A
5.5.6	voltage (230 V). Finland, Norway and Sweden To the end of the subclause the following is added Resistors used as basic safeguard or bridging basic insulation in class I pluggable		N/A
5.6.1	<ul> <li>equipmenttype A shall comply with G.10.1 and the test of G.10.2.</li> <li>Denmark</li> <li>Add to the end of the subclause</li> <li>Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shabe an integral part of the equipment.</li> <li>Justification:</li> <li>In Denmark an existing 13 A socket outlet can be</li> </ul>		N/A
5.6.4.2.1	protected by a 20 A fuse. Ireland and United Kingdom After the indent for pluggable equipment type A the following is added: - theprotective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	the with the	N/A
5.6.5.1	To the second paragraph the following is added: 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.	et with with	N/A
5.7.5	<b>Denmark</b> To the end of the subclause the following is added 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.		N/A

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	De muinement à Tant	IEC/EN 62368-1		V a nation
Clause	Requirement + Test		Result - Remark	Verdict
.7.6.1	Norway and Sweden		* *	N/A
	To the end of the subclause t	he following is added:		
	The screen of the television of normally not earthed at the er and there is normally no equi system within the building. Th earthing of the building install isolated from the screen of a system.	ntrance of the building potential bonding nerefore the protective ation needs to be		* srit
	It is however accepted to prove external to the equipment by interconnection cable with ga may be provided by a retailer	an adapter or an Ivanic isolator, which	t with with	
	The user manual shall then h similar information in Norweg language respectively, depen country the equipment is inter	ian and Swedish iding on in what	not what	ATE A
	"Apparatus connected to the the building installation throug connection or through other a connection to protective earth television distribution system may in some circumstances of Connection to a television dis	the mains apparatus with a ning – and to a using coaxial cable, create a fire hazard.	Arith Arith	stat 3
	therefore has to be provided to providing electrical isolation be frequency range (galvanic iso 11)"	elow a certain blator, see EN 60728-	at at	4 <sup>46</sup>
	NOTE In Norway, due to regu installations, and in Sweden, shall provide electrical insulat The insulation shall withstand of 1,5 kV r.m.s., 50 Hz or 60 H	a galvanic isolator ion below 5 MHz. I a dielectric strength	Site of the state of	
	Translation to Norwegian (the also be accepted in Norway):			* 4
	"Apparatersomerkoplettilbesk nettpluggog/eller via annetjom ogertilkoplet et koaksialbaser kanforårsakebrannfare. For å unngådetteskaldetvedtilkoplir TV nettinstalleresengalvanisk mellomapparatetogkabel-TV	dtilkopletutstyr – tkabel-TV nett, ngavapparatertilkabel- t isolator	t site site	A REAL
	Translation to Swedish:			
	"Apparatersomärkopplad till s jordatvägguttagoch/eller via annanutrustningochsamtidigta TV nätkanivissa fall medfőra Főrattundvikadettaskall vid ar till kabel-TV nätgalvanisk isola finnasmellanapparatenochkal	ärkopplad till kabel- risk főr brand. nslutningavapparaten ator	with with	

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Clause	Requirement + Test		Result - Remark	Verdict
Clause	Requirement + rest		Result - Remark	Veruici
5.7.6.2	Denmark To the end of the subclause The warning (marking safeg current is required if the touc protective current exceed th	uard) for high touch ch current or the	fot such st	N/A
B.3.1 and B.4	Ireland and United Kingdo	om	$\star$ $\checkmark$ $\checkmark$	N/A
D.4	The following is applicable: To protect against excessive circuits in the primary circuit <b>equipment</b> , tests according B.4 shall be conducted using circuit breaker complying wi B, rated 32A. If the equipment tests, suitable protective dev as an integral part of the <b>dir</b> <b>equipment</b> , until the require B.3.1 and B.4 are met	of <b>direct plug-in</b> to Annexes B.3.1 and g an external miniature th EN 60898-1, Type ent does not pass these vices shall be included <b>ect plug-in</b>	te periet periet	
G.4.2	Denmark	A 5		N/A
	To the end of the subclause	the following is added:		F 7
	Supply cords of single phase rated current not exceeding with a plug according to DS	13 A shall be provided	with with with	
	CLASS I EQUIPMENT prov outlets with earth contacts o be used in locations where p indirect contact is required a rules shall be provided with with standard sheet DK 2-1a	r which are intended to protection against according to the wiring a plug in accordance	with with with	
	If a single-phase equipment CURRENT exceeding 13 A equipment is provided with a plug, this plug shall be in act standard sheets DK 6-1a in 60309-2.	or if a poly-phase a supply cord with a cordance with the	- Antit Art	AN EXTERNA
	Mains socket outlets intende to Class II apparatus with a shall be in accordance DS 6 standard sheet DKA 1-4a.	rated current of 2,5 A		at the
	Other current rating socket of compliance with Standard S 1-1c.		ALL AND	
	Mains socket-outlets with ea compliance with DS 60884-2 Sheet DK 1-3a, DK 1-1c, Dk 1-7a <i>Justification:</i>	2-D1:2011 Standard	to and the	siat 4
	Heavy Current Regulations,	Section 6c		

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		IEC/EN 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
G.4.2	United Kingdom To the end of the subclause The plug part of direct plug-ir assessed to BS 1363: Part 1 12.9, 12.11, 12.12, 12.13, 12 except that the test of 12.17 less than 125 °C. Where the replaced by an Insulated Shu (ISOD), the requirements of a also apply.	n equipment shall be , 12.1, 12.2, 12.3, 2.16, and 12.17, is performed at not metal earth pin is utter Opening Device	et with a	N/A
G.7.1	United Kingdom To the first paragraph the foll Equipment which is fitted with cord and is designed to be co socket conforming to BS 136 flexible cable or cord shall be plug' in accordance with the (Safety) Regulations 1994, S 1994 No. 1768, unless exem regulations. NOTE "Standard plug" is def and essentially means an ap conforming to BS 1363 or an plug.	h a flexible cable or onnected to a mains i3 by means of that a fitted with a 'standard Plugs and Sockets etc statutory Instrument pted by those ined in SI 1768:1994 proved plug		N/A
G.7.1	Ireland To the first paragraph the foll Apparatus which is fitted with cord shall be provided with a with Statutory Instrument 525 and Conversion Adapters for Regulations: 1997. S.I. 525 p recognition of a standard of a which is equivalent to the rele	a flexible cable or plug in accordance 5: 1997, "13 A Plugs Domestic Use provides for the another Member State	riet with	N/A
G.7.2	Ireland and United Kingdon To the first paragraph the foll A power supply cord with a c is allowed for equipment which and up to and including 13 A	<b>m</b> lowing is added: conductor of 1,25 mm <sup>2</sup> ch is rated over 10 A	t sint s	N/A

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×.		IEC/EN 62368-1		
Clause	Requirement + Test	ST	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVI	ATIONS (EN)	×	N/A
10.5.2	Germany		X X	N/A
	The following requirement appl	ies:		
	For the operation of any cathoo for the display of visual images acceleration voltage exceeding authorization is required, or app approval (Bauartzulassung) an	operating at an 40 kV, blication of type	at side &	Not Art
4	Justification: German ministerial decree aga radiation (Röntgenverordnung) 2002-07-01, implementing the 96/29/EURATOM.	, in force since	t with with	× × ·····
1	<b>NOTE</b> Contact address: Physikalisch-TechnischeBunde Bundesallee 100,	esanstalt,	at and	t and and
Ret	D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de		4	



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**IEC/EN 62368-1** Clause Requirement + Test Result - Remark Verdict 4.1.2 **TABLE: List of critical components** Р Object / part No. Manufacturer/ Type / model Technical data Standard Mark(s) of conformity<sup>1</sup> trademark QZ-01000EA00 Charger Guangdong Input:100-240V~ EN IEC CB Test report Quanzhi 50/60Hz 0.3A 62368-No.: CN22SZP7 Technology Co., 1:2020+A11:2 001 Output: Ltd. 020 DC5.0V/2.0A Rechargeable Li-ion Shenzhen jiuliyuan Li476589JLY B 3.87Vd.c. IEC 62133-2: Test Report no.: DSP22121701-1 Battery Electroic 5080mAh. 2017 19.66Wh Technology Co., Ltd. DC3V, 350mA, Flash LED LatticePower(Jiang FD01B IEC SGS Report xi) corporation exempt group 62471:2006 No.:SHES21080 1605671 ΕN 62471:2008 DK65PTS54H5 LCD screen 6.517" LEAD EN 62368-1 Tested GQ COMMUNICATIO withappliance NS LTD. 9A-3R065-(Alternative) Shenzhen DJN 6.517" EN 62368-1 Tested 1330B Photoelectric withappliance Technology Co., Ltd. Shenzhen Tested with Speaker 121701 7Ω, 1.2W max. EN 62368-1 Chuangxingidian appliance Electronic Co., Ltd. PCB RED BOARD LTD H103D V-0, 130°C UL 94 UL E133472 (Alternative) Interchangeable V-0. 130°C UL 94 UL Interchangeable Plastic enclosure SABIC EXRL0246 80°C. V-0. UL 94 UL E45329 INNOVATIVE 1.5mm thickness (GG) PLASITCS B V Min. DMX9455 (GG) (Alternative) V-0, 80°C UL 94 UL Interchangeable Interchangeable Vibration motor VCM02-0827-Rated Voltage: EN 62368-1 Tested with Guangxi DC 3.0V, 80mA appliance WeiYiTong F005-03D max. Rated Electronic Technology Speed 12000±3000rpm Co.,Ltd

Supplementary information:

<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

<sup>2)</sup> Description line content is optional. Main line description needs to clearly detail the component used for testing

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Clause	Requirement + Te	est 🗸	Result - Remark	Verdict
4.8.4, 4.8.5	TABLE: Lithium	coin/button cell batteri	es mechanical tests	N/A
(The follow	ving mechanical te	ests are conducted in th	e sequence noted.)	<b>I</b>
4.8.4.2 🤍	TABLE: Stress r	elief test	4	- ·
Р	Part	Material	Oven Temperature (°C)	Comments
	* 5			
4.8.4.3	TABLE: Battery	replacement test	4	
3attery part	no			—
3attery Insta	allation/withdrawal		Battery Installation/Removal Cyc	le Comments
	4	×	1	
			2	
			3	2 N 6
			4	
			5	
			6	
			8	4
			9	× ×
			10	
4.8.4.4	TABLE: Drop tes	st		—
	TABLE: Drop tes	st Drop Distance	Drop No.	 Observations
<b>4.8.4.4</b> Impa			Drop No.	Observations
			Drop No.	Observations
			1	Observations
Impa			1 2	Observations
Impa 1.8.4.5	ct Area		1 2	Observations Observations Comments
Impa 4.8.4.5	ct Area	Drop Distance	1 2 3	
Impa 4.8.4.5	ct Area	Drop Distance	1 2 3	
Impa 1.8.4.5	ct Area	Drop Distance	1 2 3	
Impa I.8.4.5 Impacts p	ct Area	Drop Distance	1 2 3	
Impa 4.8.4.5 Impacts p 4.8.4.6	ct Area	Drop Distance	1 2 3	Comments
Impa 4.8.4.5 Impacts p 4.8.4.6	TABLE: Impact	Drop Distance	1 2 3 Impact energy (Nm)	Comments Comments Duration force

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			62368-1					
Clause	Requiremen	t + Test	Res	sult - Remark		×	Verdict	
4.8.5	TABLE: Lithium coin/button cell batteries mechanical test result							
Test position		Surface tested		Force (N)			ation force oplied (s)	
			7		X		5	
		x x z	. (	A A	5			
0	into my informatio							

Supplementary information:

					4		P
5.2	TABLE: Classification of electrical energy sources         2.2 – Steady State Voltage and Current conditions						
J.Z.Z.Z		Location (e.g.			Parameters		
No.	Voltage Cocation (e.g. voltage		Test conditions	U (Vrms or Vpl	l (Apk or Ar	ms) Hz	ES Class
			Normal		- 1		
1	5Vd.c	All internal circuits	Abnormal	÷			ES1 (declared
		Circuits	Single fault –		<u> </u>	-	
Ļ		Ċ,	Normal	x - 5			
2	• •	Full charged Battery pack					ES1 (declared
	battery output		Single fault –				
5.2.2.3	- Capacitance	Limits					
		Location (e.g.		Parameters			
No.	Supply Voltage	circuit designation)	Test conditions	est conditions Capacitance, nF Upk (V)		Upk (V)	ES Class
		5.	Normal	~			<u></u>
	-	-	Abnormal	- <sup>1</sup>	Æ	-	-
			Single fault –	<u>_</u>	5	_	
5.2.2.4	- Single Pulse	S	•				·
NIa	Supply	Location (e.g.	To stand the second		Parameters		
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
6	+ 5	4	Normal	<u>_</u>	- 7		dt .
4			Abnormal	<del>- `</del>		* - \$	
			Single fault –		× - <		

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**IEC/EN 62368-1** Clause Requirement + Test Result - Remark Verdict 5.2.2.5 - Repetitive Pulses Location (e.g. Parameters Supply No. circuit Test conditions ES Class Voltage Off time (ms) Upk (V) lpk (mA) designation) Normal \_\_ Abnormal \_\_\_\_ ------Single fault -Test Conditions: Normal -Abnormal -Supplementary information: SC=Short Circuit, OC=Short Circuit Р 5.4.1.4, **TABLE:** Temperature measurements 6.3.2, 9.0, B.2.6 Supply voltage (V) .....: See below Ambient T<sub>min</sub>(°C) .....: ------Ambient T<sub>max</sub>(°C) .....: ---\_\_\_ ----Tma (°C) ..... \_\_\_ ---T (°C) Allowed Maximum measured temperature T of part/at: T<sub>max</sub> (°C) DC5Vcharging Full battery discharging ---PCB 72.4 130 66.5 ------57.1 Ref. Battery body --56.6 ---Enclosure inside near battery 57.1 56.5 Ref. \_\_\_ ---40.0 40.0 Ambient --------Touch Temperatures (Clause 9) Enclosure outside near battery 45.4 40.6 48 ---48 Enclosure outside near DC inlet 40.6 35.2 \_\_\_ ---48 Button 37.0 36.3 48 Screen 41.0 32.2 ------Adapter surface 39.2 77 -------25.0 Ambient 25.0 -----Supplementary information: 1, External enclosure surface of the equipment (contact time >1 mins). Allowed Insulation t<sub>1</sub> (°C) t<sub>2</sub> (°C) T (°C)  $R_1(\Omega)$  $R_2(\Omega)$ Temperature T of winding: class T<sub>max</sub> (°C)

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Clause	Requirement + Test	Result - Remark				×	Verdict	
		<u> </u>				<u> </u>	5-	
-*	A 2	- 7			5			
Suppleme	entary information:	,L	X	SIV				

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9);

5.4.1.10.2 T	ABLE: Vicat softening temperature of the	nermoplastics N/A			N/A
Penetration (m	ım):		4		
Object/ Part No	o./Material	Manufacturer/t rademark		T softening (°C	;)
- 4		<del>ک</del> ۔۔			
supplementary	information:		X	5 14	~ ~

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					
Allowed impression	n diameter	(mm):	≤ 2 mm		
Object/Part No./Ma	aterial	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)
		-		Å	^
Supplementary info	ormation:			Str.	

N/A

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum C	learance	s/Creepa	ge distance			A.C.	N/A
	cl) and creepage ) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) <sup>1</sup>	Required cl (mm)	cl (mm)²	Required <sup>3</sup> cr (mm)	cr (mm)
- 7		<u> </u>	_	-			<u> </u>	
Supplement	tary information:		2				7	

5.4.2.3	TABLE: Minimum Cle	voltage	N/A		
•	Overvoltage Category				
	Pollution Degree			:	-
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measu	ıred cl (mm)
		<del>~</del>	<u></u>		
Suppleme N/A	entary information:	A stat	41		A.

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IEC/EN 62368-1							
Clause	Requirement + Test	1 Str	Result - Remark	X	Verdict		
5.4.2.4	TABLE: Clearances based on electric strength test						
Test volta	ge applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdo Yes / I			
			۲ <sup>۲</sup>	× -	5		
	st st		+	<u> </u>			
Suppleme	ntary information:	_ــــ	AT AN		.L		

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	ABLE: Distance through insulation measurements					
Distance the insulation di		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
	A.C.	<b>~</b>		<u>A</u>			
Supplement	ary information	1:	4			* *	

5.4.9	TABLE: Electric strength tests	A 4	4	N/A
Test volta	age applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Suppleme	entary information:			

5.5.2.2	TABLE: St	ored discharg	e on capacito	ors		4	N/A
Supply Vo	ltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Cla	ssification
	-				4		

Supplementary information:

X-capacitors installed for testing are:

bleeding resistor rating:

ICX: see above

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

5.6.6.2 TABLE: Resistance of protective conductors and terminations

N/A

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STS221216001001E Report No. IEC/EN 62368-1 Verdict Clause Requirement + Test **Result - Remark** Resistance Accessible part Test current Duration Voltage drop (A) (min) (Ω) (V) \_ \_\_\_ Supplementary information:

5.7.2.2, TABLE: Earthed accessible conductive pa 5.7.4	N/A	
Supply voltage:		_
Location	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
		2
2	0*	7 7
	3	~~ ×
	4	
	5 🔔 🦷	
	6	
	8	

N/A

Notes:

[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.

6.2.2	TABLE: Electrical po	TABLE: Electrical power sources (PS) measurements for classification					
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification		
		Power (W) :	0	18.22			
A&	Battery pack	VA (V) :	× - ×	2.53	PS2		
	Star 4	IA (A):	<u> </u>	7.19			
B&	Battery cell	Power (W) :	A- 2	38.38	PS2		



× 2				Report No.	STS221216	001001E	~
		IEC/	EN 62368-1		4		
Clause	Requirement + Test		511	Result - Rem	nark	×	Verdict
		VA (V):			2.12	2	
st		IA (A):			18.09		
		Power (W) :			38.38	-	
C&	Type C output	VA (V):			2.12	<u>.</u>	PS2
	H St	IA (A):			18.09		
	entary Information: SC=S		· · · · · · · · · · · · · · · · · · ·				
() Measu	rement taken only when	limits at 3 seconds	s exceed Pa	STIMIS			

(&) Power measurement for worst-case fault.

6.2.3.1	2.3.1 TABLE: Determination of Potential Ignition Sources (Arcing PIS)					
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V <sub>P</sub> x I <sub>rms</sub> )	Arcing PIS? Yes / No	
2	-	- 4		L	<i>A</i>	

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage ( $V_p$ ) and normal operating condition rms current ( $I_{ms}$ ) is greater than 15.

6.2.3.2	TABLE: De	termination of Poten	ntial Ignition So	urces (Resistiv	ve PIS)	P
Circuit Loca	tion (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
Battery of	output			Ύ		Yes

Supplementary Information:

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High Pressure Lamp		Ċ.	N/A
Description		Values	Energy Source C	,
Lamp type		~ *		
Manufacture	r		—	

Report No. STS221216001001E IEC/EN 62368-1 Verdict Clause Requirement + Test **Result - Remark** Cat no. Pressure (cold) (MPa)..... MS Pressure (operating) (MPa) ..... MS Operating time (minutes) ..... Explosion method ..... Max particle length escaping enclosure (mm) .: MS MS\_ Max particle length beyond 1 m (mm)..... Overall result ..... Supplementary information:

B.2.5	TABLE: Inp	ut test	~		_		P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc	1.925	2	9.625	-	- AL	- 4	Empty battery Only charge. Battery current: 2.154A
5.0Vdc	1.202	2	6.01	4		- +	Empty battery charge and EUT running. Battery current: 0.652A

Supplementary information:

The measured input power did not exceed the marked input rating by more than 10 percent when the apparatus was operated to produce the maximum normal input power.

B.3	TABLE: Ab	normal op	erating cond	lition tests				Р
Ambient temp	perature (°C)				<u>.</u>	See below		
Power source	e for EUT: Ma	anufacturer	, model/type,	output rating	.:	-	4	
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse currer (A)		Temp. (°C)	Observatio n
Speaker	S-C	4.45	10mins					Speaker shut down and other function as normal operation NO damaged on hazards.



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		IEC/EN 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
Supplemen	tary information:		

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

No igntion during and after all tests.

B.4	TABLE: Fault	condition	ests			- 21		•	Р
Ambient temper	ature (°C)			<u> </u>		23.0-25.	0	.1	
Power source for	or EUT: Manufac	turer, mode	l/type, c	output ra	ting .:	See cove	er page f	or details	
Component No.	Fault Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Obser	vation
R1256	S-C	5	10					Normal wor recoverable damage, no	, no
R1716	S-C	5	10					Normal wor recoverable damage, no	, no
C1121	S-C	5	10					Unit Shut do and recover damage no	able, no
C927	S-C	5	10					Unit Shut do and recover damage no	able, no
R1256	S-C	4.45	10					Normal wor recoverable damage, no	, no
R1716	S-C	4.45	10					Normal wor recoverable damage, no	, no
C1121	S-C	4.45	10					Unit Shut do and recover damage no	able, no
C927	S-C	4.45	10					Unit Shut do and recover damage no	able, no

Supplementary information:

1. SC – Short Circuit; OC – Open Circuit; OL- Overload;

2. No ignition during and after all tests;

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			2	IE	C/EN 6236	8-1						
Clause	Red	quirement -	+ Test		5	Result	- Remark		X	Verdict		
Annex M	TA	BLE: Batte	eries	A CONTRACTOR						Р		
The tests o	The tests of Annex M are applicable only when appropriate battery data is not available											
Is it possib	le to ir	nstall the b	attery in a	reverse pola	rity position	?	:					
		Non-rec	chargeable	echargeabl	e batteries							
		Discharging		Un- intentional	Char	ging	Disch	arging		eversed narging		
		Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.		
Max. curre during norr condition		1	4	-	2154mA	3000mA	2624mA	3000mA				
Max. curre during fault condition		Sigt	- A		2379mA (U901 PinE2-D5 sc)	3000mA	2810mA (U1102 PinB3-B4 sc)	3000mA	AN CONT	4		
Test results	s:			2				×-	H	Verdict		
- Chemical	leaks	× .	2				2		2	NO		
- Explosion	of the	e battery	*		R					NO		
- Emission	of flar	me or expu	Ilsion of m	olten metal	Ç				5	NO		
- Electric st	renat	h tests of e	auipment	after comple	tion of tests		X					

		<u>x</u> x					
TABLE: Ac batteries	dditional sa	feguards for equ	ipment co	ontaining secon	idary lithium	P	
Battery/Cell No.		conditions		Measuremen	ts	Observation	
				I (A)	Temp (°C)	_	
		Normal		2.154	57.1	No damaged, no hazard.	
Æ	Abnormal	Abnormal (after drop test)		2.155	57.5	No damaged, no hazard.	
3 Si		Single fault –SC/OC		2.810	57.8	No damaged, no hazard.	
ary Informati	on: SC = sł	nort circuit.	7			5. 5	
		Observatio	on	Charging at T <sub>highest</sub> (°C)	Obs	servation	
	hatteries //Cell b. ury Informati	batteries //Cell Test of Normal Abnormal ( Single fault irry Information: SC = sh Charging at Tlowest	batteries       //Cell     Test conditions       0.     Normal       Normal     Abnormal (after drop test)       Single fault –SC/OC     Single fault –SC/OC       ury Information:     SC = short circuit.       Charging at Tlowest     Observation	Test conditions       U         0.       Test conditions         0       Normal         4.45         Abnormal (after drop test)       4.45         Single fault –SC/OC       4.45         Inv Information:       SC = short circuit.         Charging at Towest       Observation	batteries         //Cell       Test conditions       Measuremen         0       I (A)         Normal       4.45       2.154         Abnormal (after drop test)       4.45       2.155         Single fault –SC/OC       4.45       2.810         Introduction       SC = short circuit.       Charging at Thowest       Observation       Charging at This	$ \frac{1}{10000000000000000000000000000000000$	

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Report No.

IEC/EN 62368-1 Verdict Clause Requirement + Test **Result - Remark** Charging at Observation Charging at Observation Battery Tlowest Thighest identification (°C) (°C) Li-ion battery When the temperature of 60 When the temperature of the 0 the battery body reaches battery body reaches 58°C, 0°C ,charge current: charge current: 0A 2.154A Supplementary Information: The battery surface not exceeds the highest and lowest specified charging

temperature under normal operating conditions, abnormal operating conditions or single fault conditions.

Annex Q.1	TABLE: Circuits inte	BLE: Circuits intended for interconnection with building wiring (LPS)							
Note: Measu	ured UOC (V) with all loa	ad circuits discon	nected:		A	* *			
Output Circuit	Components	U <sub>oc</sub> (V)	lsc	:(A)	S (VA)				
			Meas.	Limit	Meas.	Limit			
	<								
Supplement	ary Information:	5			+ 4				
N/A									

Т.2, Т.3,	TABLE:	Steady force tes	t 🙏	5	•	P
T.4, T.5		A-				A.
Part/Loc	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top of enclos	sure	Plastic	\$ - X	100	5	No damaged, no hazard
Bottom of en	closure	Plastic		100	5	No damaged, no hazard
Side of enclosure		Plastic		100	5	No damaged, no hazard
Supplementa	ary informa	ation:		<u>ــــــــــــــــــــــــــــــــــــ</u>		

Т.6, Т.9 Т.	ABLE: Impact tests			4		N	I/A
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation			
	5. 6	A.					
2					A.	4	2
Supplementary	information:						

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Report No. STS221216001001E IEC/EN 62368-1 Requirement + Test Result - Remark Verdict Clause T.7 **TABLE: Drop tests** Ρ Part/Location Thickness **Drop Height** Observation Material (mm) (mm) Top enclosure Plastic 1000 No damage, no hazard ---Side enclosure Plastic 1000 No damage, no hazard --bottom enclosure Plastic 1000 No damage, no hazard --Supplementary information:

Т.8 ТАВ	LE: Stress relief t	est	4		Р
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure	Plastic	STA	<b>7</b> 0	7	No damaged, no hazards.
Supplementary inf	formation:				~ ~

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#### Attachment1 – Photo Documentation



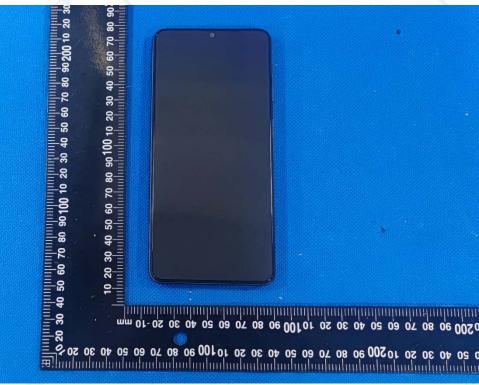


Fig.2

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Fig.3



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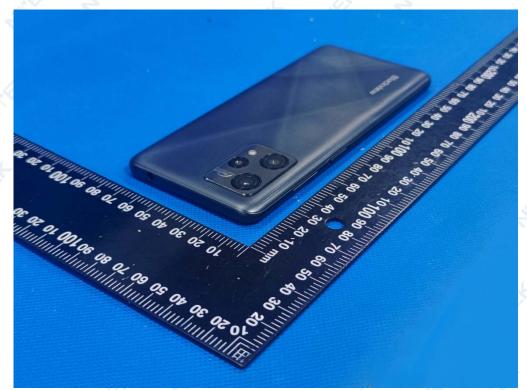


Fig.5



30 20 10200 90 80 70 60 50 40 30 20 10100 90 80 70 60 50 40 30 20 10 mm

0 20 30 40 50 60 70 80 90100 10 20 30 40 50 60 70 80 90200 10 

Fig.6

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Fig.7

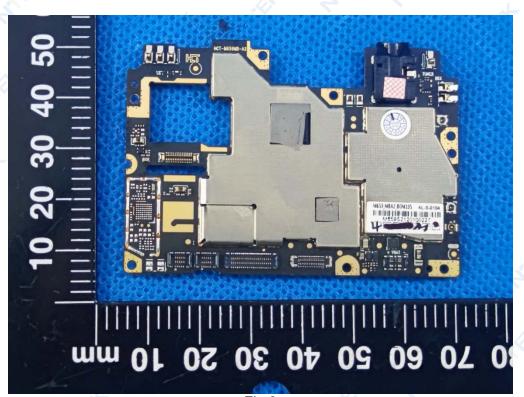


Fig.8

Shenzhen NTEK Testing Technology Co., Ltd.



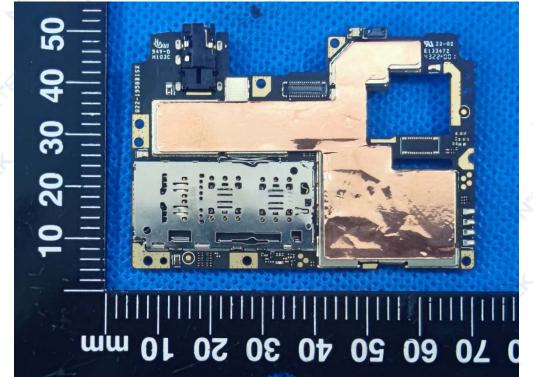
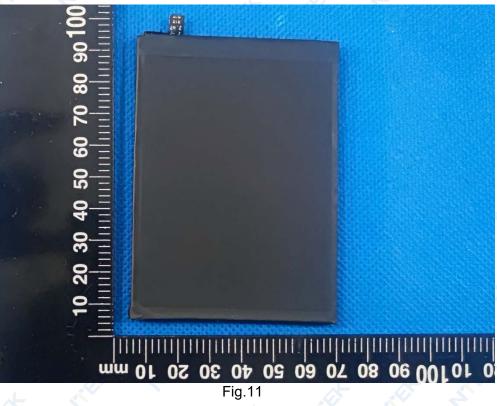


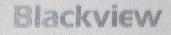
Fig.9

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#### AC Adapter

(VI)Model: QZ-01000EA00 Input: 100-240V~50/60Hz 0.3A Output: 5.0V::::2.0A (10.0W)



Guangdong Quanzhi Technology Co., Ltd. Made in China

Fig.12

\*\*\*END OF REPORT\*\*\*