NTEK 北测[®]

TEST REPORT

Report No.:	S23082504003001
Product:	Smart Phone
Model No.:	TIGER 10 🦯 🍣 🖉
Applicant:	DOKE COMMUNICATION (HK) LIMITED
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD
	WANCHAI HK CHINA
Issued by:	Shenzhen NTEK Testing Technology Co., Ltd.
Lab Location:	1&5/F, Building C, 1&2/F, Building E, Fenda Science Park,
	Sanwei Community, Hangcheng Street, Baoan District,
	Shenzhen ,Guangdong, China
Tel.:	400-800-6106, 0755-2320 0050 / 2320 0090

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CE

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	TEST REPOR		
Audio/video, informatio	IEC 62368-1		oment
	rt 1: Safety requi		
A L S		A S S L	A S
Report Number:	S23082504003001		
	A	I TIM HOM	
Tested by (+ signature):	Lily.yan	Lily. yan	
		Henson Dury	
Approved by (+ signature):	Henson Dong	Henson Prent	
Date of issue	2023-10-19	A 2	
Name of Testing Laboratory preparing the Report:	1&5/F, Building C, 18	sting Technology Co., Ltd. &2/F, Building E, Fenda Scie	nce Park, Sanwei
	Shenzhen ,Guangdo	eng Street, Baoan District, ng, China	
Applicant's name:	DOKE COMMUNICA		L.
Address:	RM 1902 EASEY CO WANCHAI HK CHIN	DMM BLDG 253-261 HENNE A	ESSY ROAD
Test specification:	4 2	15 2	t
Standard:	🔲 IEC 62368-1: 201	8 (Third Edition)	
	EN IEC 62368-1:2	2020+A11:2020	
Test procedure:	CE Scheme		
Non-standard test method:	N/A		
TRF template used:	IECEE OD-2020-F1:2	2021, Ed.1.4	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 Cor and Components (IECEE System). A		t Schemes for Electrotech	nical Equipment
This publication may be reproduced in is acknowledged as copyright owner ar not assume liability for damages resulti its placement and context.	nd source of the mater	ial. IECEE takes no respons	sibility for and will
Test item description:	Smart Phone	A	~
Trade Mark:	OSCAL		
Manufacturer:	Shenzhen DOKE E	lectronic Co., Ltd	
		Industrial Zone, Yulv Comm District, Shenzhen, China.	unity, Yutang
Model/Type reference:	TIGER 10		
Ratings:	Input: 5Vdc, 2A (Su	pplied by adaptor)	
	or 3.85Vdc, 5180m/		··· · · · · ·

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Report No. S23082504003001

List of Attachments (including a total number of pages in each attachment):

Attachment 1: 21 pages (National deviation)

Attachment 2: 7 pages (Photo)

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

- EN IEC 62368-1:2020+A11:2020

Testing location:

Shenzhen NTEK Testing Technology Co., Ltd.

1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China

All applicable tests as described in the compliance checklist Hawere performed.

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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Image: Supply tolerance Image: Supply tolerance Supply tolerance Image: Supply connection - type Supply connection - type Image: Supply connection - type Supply connection - type Image: Supply connection - type Supply connection - type Image: Supply connection - type Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type Image: Supply connection - type	Test item particulars:	
Supply connection □ Instructed person □ AC mains □ DC mains □ not mains connected: □ ES1 ES2 ES3 Supply tolerance □ +10%/-10% +20%/-15% +<	Product group:	end product Duilt-in component
Supply connection AC mains DC mains Supply tolerance Image: Supply tolerance Image: Supply tolerance Supply connection - type Image: H10%/-10% H10%/-10% H20%/-15% H + %/- % Image: Power systems Supply connection - type Image: Power systems Supply connectex	Classification of use by	
Image: Supply tolerance Image: Simply tolerance Supply tolerance Image: Simply tolerance Image: Simply connection - type Image: Simply tolerance Supply connection - type Image: Simply tolerance Supply connection - type Image: Simply tolerance Image: Simply tolerance Image: Simply tolerance Image: Simply toterance		🛛 Skilled person
Supply tolerance □ ES1 □ ES2 □ ES3 Supply tolerance □ +10%/-10% □ +20%/-15% □ + %/- % Supply connection – type □ □ non-detachable supply cord □ appliance coupler □ in on-detachable supply cord □ appliance coupler □ in on-detachable supply cord □ appliance coupler □ appliance coupler □ non-detachable supply cord □ appliance coupler □ </td <td>Supply connection</td> <td>AC mains DC mains</td>	Supply connection	AC mains DC mains
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□ +20%/-15% □ + %/- % Supply connection – type □ Pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ privagable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⊠ other: Not directly connected to mains △ A. Location: □ building □ direct plug-in □ stationary □ direct plug-in □ transportable □ direct plug-in □ stationary □ direct plug-in □ stationary □ direct plug-in □ stationary □ other: ○ VC I ○ other: ○ VC I ○ other: ○ VC I ○ VC IV ○ other: ○ Nor classifie □ Class II		
□ + %/- % Supply connection – type □ None □ □ □ pluggable equipment type A - □ □ □ □ appliance coupler □ □ □ □ □ pluggable equipment type B - □ □ □ □ □ □ pluggable equipment type B - □	Supply tolerance:	- //2
Supply connection - type		
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Image: Second Secon		_
□ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ○ other: Not directly connected to mains △ A. Location: building □ direct plug-in △ appliance coupler □ permanent connector ○ other: Not directly connected to mains □ OVC I ○ OVC I ○ Overvoltage category (OVC) □ OVC I ○ OVC I ○ OVC I ○ OVC I ○ Overvoltage category (OVC) □ Class I ○ Class II ○ Class I ○ Class II <td>Supply connection – type</td> <td></td>	Supply connection – type	
□ direct plug-in □ pluggable equipment type B - □ appliance coupler □ appliance coupler □ appliance coupler □ other: Not directly connected to mains □ A. Location: building □ equipment □ N/A Equipment mobility movable □ movable □ movable □ other: □ oVC I □ OVC I □ OVC I □ OVC I □ OVC II □ N/A □ PD 2 <tr< td=""><td></td><td></td></tr<>		
□ pluggable equipment type B - □ appliance coupler □ permanent connection □ mating connector ☑ other: Not directly connected to mains □ A. Location: □ □ movable □ direct plug-in □ attionary □ other: Not directly connected to mains □ A. Location: □ □ movable □ direct plug-in □ stationary □ other: □ OVC I □ OVC I □ OVC II □ OVC II □ OVC II □ OVC III □ <td></td> <td></td>		
□ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ○ other: Not directly connected to mains □ A. Location: □ building □ movable □ hand-held □ direct plug-in □ stationary □ other: Not directly connected to the mains □ direct plug-in □ stationary □ other: OVC I ○ OVC I ○ OVC II ○ OVC IV ○ other: Not directly connected to the mains □ Class of equipment □ Class II □ Special installation location □ N/A □ PD 1 ○ PD 2 □ PD 1 ○ PD 3 Manufacturer's specified T _{ma} 40 C (for battery discharging mode); 25 C (for charging with AC power adapter mode) □ IPX 0 IP_20 Power systems □ TN<□ TT<□ IT - V LL		
□ appliance coupler □ permanent connection □ mating connector ○ other: Not directly connected to mains □ device		
□ permanent connection □ mating connector □ other: Not directly connected to mains □ A. Location: □ □ N/A Equipment mobility □ □ movable □ □ irrect plug-in □ □ wall/ceiling-mounted □ □ OVErvoltage category (OVC) □ OVC I □ OVC I □ OVC III □ OVC IV □ OVC III □ N/A □ restricted access area □ outdoor location □ PD 2 PD 3 Manufacturer's specified T _{ma} 40 C (for battery discharging mode); 25 C (for charging with AC power adapter mode) IP protection class □ IPX0 IP_20 Power systems □ TN<□		
⊠ other: Not directly connected to mains ☐ A. Location: building equipment Equipment mobility □ N/A □ movable hand-held transportable □ direct plug-in □ stationary □ for building-ii □ wall/ceiling-mounted □ SRME/rack-mounted □ Overvoltage category (OVC) □ OVC I □ OVC II □ OVC III □ OVC IV □ other: Not directly connected to the mains Class of equipment □ Class I □ Class II □ OVC III □ OVC IV □ other: Not directly connected to the mains □ Class II □ OVC III □ Special installation location □ N/A □ restricted access area □ outdoor location □ PD1 □ PD 2 □ PD 3 Manufacturer's specified T _{ma} 40 C (for battery discharging mode); 25 C (for charging with AC power adapter mode) IP protection class □ IN □ TT □ IT - V L4 □ Not AC mains □ 10 C (mains Altitude during operation (m) □ 2000 m or less 0 m		
Considered current rating of protective □ A. device		
device : Location: building equipment Equipment mobility : M/A imovable hand-held transportable Girect plug-in : stationary : for building-in Wall/ceiling-mounted : SRME/rack-mounted : other: Overvoltage category (OVC) : : OVC I OVC II OVC III OVC IV : : : : Class I : : Class II : : : Special installation location : <t< td=""><td></td><td>☑ other: Not directly connected to mains</td></t<>		☑ other: Not directly connected to mains
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☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other: Overvoltage category (OVC) ☐ OVC I ☐ OVC I ☐ OVC IV ☐ other: OVC IV ☐ other: ☐ OVC II ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: ☐ OVC IV ☐ other: ☐ OVC III ☐ OVC III ☐ OVC III ☐ OVC III ☐ OVC IV ☐ other: ☐ OVC IV ☐ other: ☐ OVC III ☐ Not classified ☐ PD 2 ☐ PD 3 Manufacturer's specified Tma IP protection class <t< td=""><td>device:</td><td></td></t<>	device:	
□ wall/ceiling-mounted □ SRME/rack-mounted □ other: Overvoltage category (OVC) □ OVC I □ OVC I □ OVC IV □ OVC IV □ other: □ OVC IV □ OVC IV □ Other: □ OVC IV □ OVC IV □ Other: □ OVC IV □ OVC IV □ Other: □ OVC ISSIII □ OVC IV □ OVC IV □ OVC ISSIII □ OVC ISSIIII □ OVC ISSIIII □ OVC ISSIIII	Equipment mobility:	
Overvoltage category (OVC) □ other: □ OVC I □ OVC II □ OVC III □ OVC IV □ other: Not directly connected to the mains □ Class of equipment □ Class I □ Class III □ Not classified □ Special installation location □ N/A □ restricted access area □ outdoor location □ PD 1 PD 2 PD 3 Manufacturer's specified Tma 40 C (for battery discharging mode); 25 C (for charging with AC power adapter mode) IP protection class □ IP20 Power systems □ TN □ TT □ IT - V LL □ not AC mains □ 2000 m or less □ m Altitude of test laboratory (m) □ 2000 m or less □ 500 m		
Overvoltage category (OVC) OVC I OVC II OVC III OVC IV Other: Not directly connected to the mains Class of equipment Class I Class III Class III Not classified Image: Class III Class III Class III Special installation location Image: Class III Image: Class III Image: Class III Pollution degree (PD) Image: PD 1 Image: PD 2 Image: PD 3 Manufacturer's specified Tma 40°C (for battery discharging mode); 25°C (for charging with AC power adapter mode) IPX0 IP20 Power systems Image: TTN ITT V V Altitude during operation (m) Image: 2000 m or less m Altitude of test laboratory (m) Image: 2000 m or less 500 m		
□ OVC IV □ other: Not directly connected to the mains □ Class I □ Class II □ Not classified □ Not classified □ outdoor location □ PD 1 □ PD 2 □ PD 3 Manufacturer's specified Tma □ Power systems □ TN □ TT □ TN □ TT □ TN □ TT □ Not AC mains Altitude of test laboratory (m) □ 2000 m or less	Sec. 15	
Class of equipment	Overvoltage category (OVC):	
Class of equipment □ Class I □ Class II □ Class III □ Not classified □ □ Not classified □ Special installation location □ N/A □ restricted access area □ outdoor location □ □ D1 □ PD 2 □ PD 3 Manufacturer's specified Tma 40 °C (for battery discharging mode); 25 °C (for charging with AC power adapter mode) IP protection class □ TN □ TT □ IT - V LL Power systems □ TN □ TT □ IT - V LL □ not AC mains □ 2000 m or less □ m Altitude of test laboratory (m) □ 2000 m or less ∑ 500 m		
Special installation location □ Not classified □ N/A □ restricted access area □ outdoor location □ Pollution degree (PD) □ PD 1 □ PD 2 □ PD 3 Manufacturer's specified Tma 40 °C (for battery discharging mode); 25 °C (for charging with AC power adapter mode) □ □ IP protection class □ IPX0 □ IP_20 □ Power systems □ □ □ IN □ □ □ □ □ □ IP 0 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ </td <td>Class of equipment</td> <td></td>	Class of equipment	
Special installation location : N/A □ restricted access area □ outdoor location : Outdoor location Pollution degree (PD) : PD 1 ⊠ PD 2 PD 3 Manufacturer's specified Tma : 40 °C (for battery discharging mode); 25 °C (for charging with AC power adapter mode) IP protection class : IPX0 IP_20 Power systems : INN IT IT - V L-L ⊠ not AC mains : 2000 m or less m Altitude of test laboratory (m) : : 2000 m or less 500 m		
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IP protection class 25 ℃ (for charging with AC power adapter mode) IP protection class IP 20 Power systems IT IT IT IT IT VLL In the control of the control o	Pollution degree (PD):	🗌 PD 1 🔷 🖂 PD 2 🔤 PD 3 🔷
IP protection class : ⊠ IPX0 □ IP_20 Power systems : □ TN □ TT □ IT - V L-L ⊠ not AC mains Altitude during operation (m) : ⊠ 2000 m or less □ m Altitude of test laboratory (m) : □ 2000 m or less ⊠ 500 m	Manufacturer's specified Tma:	40 °C (for battery discharging mode);
IP protection class : ⊠ IPX0 □ IP_20 Power systems : □ TN □ TT □ IT - V L-L ⊠ not AC mains Altitude during operation (m) : ⊠ 2000 m or less □ m Altitude of test laboratory (m) : □ 2000 m or less ⊠ 500 m		25 C (for charging with AC power adapter mode)
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Altitude during operation (m): 2000 m or less m Altitude of test laboratory (m): 2000 m or less 500 m	Power systems:	
Altitude of test laboratory (m): 2000 m or less 🛛 500 m	Altitude during operation (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: 2023-09-15

Date (s) of performance of tests: 2023-09-15 to 2023-10-16

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 product is Smart Phone to be used for audio/video, information and communication technology equipment.
- 2. 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.

Model Differences –

N/A

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Clause	Possible Hazard				
5	Electrically-caused injury	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All circuits	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A	
6	Electrically-caused fire	lectrically-caused fire			
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S	
PS2: (All circuits)	РСВ	N/A	V-0	N/A	
PS2: Battery cell	Enclosure	N/A	N/A	V-0	
7 Injury caused by hazardous substances					
Class and Energy Source	Body Part		Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
Battery cell	Complied with annex M	💎 N/A	N/A	N/A	
8	Mechanically-caused injury				
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				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LCD display	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A	
RS2: Acoustic	Ordinary/ Instructed/ Skilled	See 10.6	N/A 🔨	N/A	

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

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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		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	P
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)	to the second	N/A
4.1.5	Constructions and components not specifically covered	to a	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)	P
4.4.3	Safeguard robustness	See below	Р
4.4.3.1	General	<u>A</u>	Р
4.4.3.2	Steady force tests	(See Annex T.4)	Р
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	N/A
4.4.3.5	Internal accessible safeguard tests	5	N/A
4.4.3.6	Glass impact tests	the t	N/A
4.4.3.7	Glass fixation tests	2	N/A
	Glass impact test (1J)	4 4	N/A
4	Push/pull test (10 N)	A S	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	P
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	P
4.4.4 🔷	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion	A E	Р
4.5.1	General		P
4.5.2	No explosion during normal/abnormal operating condition	dit i	Р

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Clause	Requirement + Test	Result - Remark	Verdict
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		P
4.0	Fix conductors not to defeat a safeguard	2 2 4 8	P
	Compliance is checked by test	4 2	P
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	+ A	N/A
4.8.1	General	Coin battery fixed in place.	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery compartment door/cover construction	A S	N/A
6	Open torque test	1 5	N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test	L. L.	N/A
4.8.4.4	Drop test	JE S	N/A
4.8.4.5	Impact test	5	N/A
4.8.4.6	Crush test	4	N/A
4.8.5	Compliance	La	N/A
	30N force test with test probe	4 4	N/A
AT	20N force test with test hook	5 . 8	N/A
4.9	Likelihood of fire or shock due to entry of conduc	ctive object	N/A
4.10	Component requirements	L 8	N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays	2 8	N/A

5	ELECTRICALLY-CAUSED INJURY		P
5.2 🔊	Classification and limits of electrical energy source	ces	Р
5.2.2	ES1, ES2 and ES3 limits	E E	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:	* *	N/A
5.2.2.4	Single pulse limits	t	N/A
5.2.2.5	Limits for repetitive pulses:	A E	N/A
5.2.2.6	Ringing signals	11 1	N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources	5	N/A

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Clause	Requirement + Test	Result - Remark	Verdic
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Only ES1 circuit generated and accessible in this equipment	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	4 2	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	to the second	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards		N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2 🧹	Contact requirements	A R	N/A
5	Test with test probe from Annex V	2 2	
5.3.2.2 a)	Air gap – electric strength test potential (V):	XS	N/A
5.3.2.2 b)	Air gap – distance (mm):	. 5	N/A
5.3.2.3	Compliance	E -	N/A
5.3.2.4	Terminals for connecting stripped wire	the second secon	N/A
5.4	Insulation materials and requirements	* 5	Р
5.4.1.2	Properties of insulating material	- E -	Р
5.4.1.3	Material is non-hygroscopic		N/A
5.4.1.4	Maximum operating temperature for insulating materials	L S	Р
5.4.1.5	Pollution degrees:	4	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	A A	N/A
5.4.1.5.3	Thermal cycling test	68	N/A
5.4.1.6	Insulation in transformers with varying dimensions	A X	N/A
5.4.1.7	Insulation in circuits generating starting pulses	2 8	N/A
5.4.1.8	Determination of working voltage:	A T	N/A
5.4.1.9	Insulating surfaces	5 5	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	The second secon	N/A
5.4.1.10.2	Vicat test:	4 2	N/A
5.4.1.10.3	Ball pressure test:	t S	N/A
5.4.2	Clearances		≦N/A
5.4.2.1	General requirements	+ 4	N/A
d.	Clearances in circuits connected to AC Mains, Alternative method		N/A
5.4.2.2	Procedure 1 for determining clearance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	t it	N/A
5.4.2.3.2.2	a.c. mains transient voltage:	25 0	
5.4.2.3.2.3	d.c. mains transient voltage	5 5 5	
5.4.2.3.2.4	External circuit transient voltage:	S	
5.4.2.3.2.5	Transient voltage determined by measurement:	to L	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	£ + +	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	15 5	N/A
5.4.2.6	Clearance measurement:	s x	N/A
5.4.3	Creepage distances	1 5	N/A
5.4.3.1 🙏	General	19 N	N/A
5.4.3.3	Material group:	5 3	_
5.4.3.4	Creepage distances measurement	t.	N/A
5.4.4	Solid insulation	A E	N/A
5.4.4.1	General requirements	N. S.	N/A
5.4.4.2	Minimum distance through insulation	5	N/A
5.4.4.3	Insulating compound forming solid insulation	LE.	N/A
5.4.4.4	Solid insulation in semiconductor devices	+ 5	N/A
5.4.4.5	Insulating compound forming cemented joints	2 0	N/A
5.4.4.6	Thin sheet material	8 x 5	N/A
5.4.4.6.1	General requirements	K	N/A
5.4.4.6.2	Separable thin sheet material	A F	N/A
AT X	Number of layers (pcs):	S A	N/A
5.4.4.6.3	Non-separable thin sheet material	4 4	N/A
1	Number of layers (pcs):	the second	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	N I	N/A
5.4.4.6.5	Mandrel test	+ 5	N/A
5.4.4.7 🔬	Solid insulation in wound components	H	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, <i>E</i> _P , <i>K</i> _R , <i>d</i> , <i>V</i> _{PW} (V):	K R	N/A
	Alternative by electric strength test, tested voltage (V), $K_{\rm R}$	to a	N/A
5.4.5	Antenna terminal insulation	2	N/A
5.4.5.1	General	+	N/A
5.4.5.2	Voltage surge test	44	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.5.3	Insulation resistance (M)	t to	N/A
A	Electric strength test	5 5 4	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	AL S	N/A
5.4.7	Tests for semiconductor components and for cemented joints	AT T	N/A
5.4.8	Humidity conditioning	2	N/A
	Relative humidity (%), temperature (°C), duration (h)	to the second	
5.4.9 🛒	Electric strength test	E L	N/A
5.4.9.1	Test procedure for type test of solid insulation :		N/A
5.4.9.2	Test procedure for routine test	4 4	N/A
5.4.10	Safeguards against transient voltages from external circuits	4 8	N/A
5.4.10.1	Parts and circuits separated from external circuits	t.	N/A
5.4.10.2	Test methods	A S	N/A
5.4.10.2.1	General	S I	N/A
5.4.10.2.2	Impulse test		N/A
5.4.10.2.3	Steady-state test	4	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	A A	N/A
5.4.11	Separation between external circuits and earth	2 +	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	1	N/A
5.4.11.2	Requirements	A X	N/A
Š.	SPDs bridge separation between external circuit and earth	4 th	N/A
1	Rated operating voltage $U_{op}(V)$:	X	—
L 5	Nominal voltage U _{peak} (V):	St T t	
	Max increase due to variation U _{sp} :		
4	Max increase due to ageing U _{sa}	The second secon	—
5.4.11.3	Test method and compliance	* ~	N/A
5.4.12	Insulating liquid	d -	N/A
5.4.12.1	General requirements	XX	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid		N/A
5.4.12.4	Container for insulating liquid	1 A	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.5	Components as safeguards	A 15	N/A
5.5.1	General	55 0	N/A
5.5.2	Capacitors and RC units	1 15 5	N/A
5.5.2.1	General requirement	S S	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	A IT	N/A
5.5.3	Transformers	- 15	N/A
5.5.4	Optocouplers	LA	N/A
5.5.5 📿	Relays	A \$	N/A
5.5.6 🧲	Resistors	The second se	N/A
5.5.7	SPDs	A S	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	+ 4	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	t.	N/A
	RCD rated residual operating current (mA):	1	_
5.6	Protective conductor	A 4	N/A
5.6.2	Requirement for protective conductors	~ ~	N/A
5.6.2.1	General requirements	1. The second se	N/A
5.6.2.2	Colour of insulation	15	N/A
5.6.3	Requirement for protective earthing conductors	A	N/A
E.	Protective earthing conductor size (mm ²)	2 1 8	
	Protective earthing conductor serving as a reinforced safeguard		N/A
A de	Protective earthing conductor serving as a double safeguard	S A	N/A
5.6.4	Requirements for protective bonding conductors	* *	N/A
5.6.4.1	Protective bonding conductors	XX	N/A
5	Protective bonding conductor size (mm ²):	the state	_
5.6.4.2	Protective current rating (A):	A A	N/A
5.6.5	Terminals for protective conductors	4	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	F &	N/A
	Terminal size for connecting protective bonding conductors (mm)	to the	N/A
5.6.5.2	Corrosion	5	N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements	1 Alexandre	N/A

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IEC 62368-1 Requirement + Test Result - Remark Verdict Clause 5.6.6.2 Test Method N/A 5.6.6.3 N/A Resistance () or voltage drop 5.6.7 Reliable connection of a protective earthing N/A conductor 5.6.8 Functional earthing N/A N/A Conductor size (mm²)..... Class II with functional earthing marking N/A Appliance inlet cl & cr (mm) N/A 5.7 N/A Prospective touch voltage, touch current and protective conductor current 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 voltage N/A 5.7.3 Equipment set-up, supply connections and earth N/A connections 5.7.4 Unearthed accessible parts N/A 5.7.5 Earthed accessible conductive parts: N/A 5.7.6 Requirements when touch current exceeds ES2 N/A limits Protective conductor current (mA): N/A Instructional Safeguard N/A 5.7.7 Prospective touch voltage and touch current N/A associated with external circuits 5.7.7.1 Touch current from coaxial cables N/A 5.7.7.2 Prospective touch voltage and touch current N/A associated with paired conductor cables 5.7.8 Summation of touch currents from external circuits N/A a) Equipment connected to earthed external N/A circuits, current (mA)..... b) Equipment connected to unearthed external N/A circuits, current (mA).....: 5.8 Backfeed safeguard in battery backed up supplies N/A Mains terminal ES N/A N/A Air gap (mm)......

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		P
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	See below.	Р

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Clause	Requirement + Test	Result - Remark	Verdic
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS:	All conductors and devices are considered as Resistive PIS.	P
6.3	Safeguards against fire under normal operating ar conditions	nd abnormal operating	Р
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)	Р
1	Combustible materials outside fire enclosure:	15 8	N/A
6.4 <	Safeguards against fire under single fault condition	ns	P
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	5 5	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	L # .	P
6.4.3.1	Supplementary safeguards		Р
6.4.3.2	Single Fault Conditions	(See appended table B.3, B.4)	P
2	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	See below.	P
6.4.5.2	Supplementary safeguards	2 6 8	N/A
6.4.6	Control of fire spread in PS3 circuits	A K	N/A
6.4.7	Separation of combustible materials from a PIS	4 3	N/A
6.4.7.2	Separation by distance	2 5	N/A
6.4.7.3	Separation by a fire barrier	5 5	N/A
6.4.8	Fire enclosures and fire barriers	Fire enclosures: V-0	Р
6.4.8.2 🧹	Fire enclosure and fire barrier material properties	A S	P
6.4.8.2.1	Requirements for a fire barrier	2 15	N/A
6.4.8.2.2	Requirements for a fire enclosure	+ 5	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	to an	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	1	N/A
6.4.8.3.2	Fire barrier dimensions	A A	N/A
6.4.8.3.3	Top openings and properties	E S	N/A
K	Openings dimensions (mm)		N/A
6.4.8.3.4	Bottom openings and properties	A.	N/A

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Clause

6.4.8.3.5

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 Openings dimensions (mm).......
 N/A

 Flammability tests for the bottom of a fire enclosure
 N/A

 Instructional Safeguard
 N/A

 Side openings and properties
 N/A

 Openings dimensions (mm)......
 N/A

6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):	the the	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	Fire enclosures: V-0	P
6.4.9 💉	Flammability of insulating liquid	S X	N/A
6.5	Internal and external wiring	1 8	Р
6.5.1	General requirements	19 5	Р
6.5.2	Requirements for interconnection to building wiring	No such interconnection to building wiring.	N/A
6.5.3	Internal wiring size (mm ²) for socket-outlets:	No socket-outlet used.	N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
Reduction of exposure to hazardous substances	N/A
Ozone exposure	N/A
Use of personal safeguards or personal protective equipment (PPE)	N/A
Personal safeguards and instructions:	2 -
Use of instructional safeguards and instructions	N/A
Instructional safeguard (ISO 7010):	* -
Batteries and their protection circuits	P
	Reduction of exposure to hazardous substances Ozone exposure Use of personal safeguards or personal protective equipment (PPE) Personal safeguards and instructions Use of instructional safeguards and instructions Instructional safeguard (ISO 7010)

8	MECHANICALLY-CAUSED INJURY		P
8.2	Mechanical energy source classifications	2 t	Р
8.3	Safeguards against mechanical energy sources	L 5	N/A
8.4	Safeguards against parts with sharp edges and co	orners	Р
8.4.1 ≤	Safeguards	5 2	N/A
	Instructional Safeguard	the second secon	N/A
8.4.2	Sharp edges or corners	Equipment mass: MS1 Accessible edges and corners of the equipment are rounded and are classified as MS1.	P
8.5	Safeguards against moving parts	Į.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts	N/A
AL A	MS2 or MS3 part required to be accessible for the function of the equipment	A A	N/A
	Moving MS3 parts only accessible to skilled person	6 8	N/A
8.5.2	Instructional safeguard:	A t	N/A
8.5.4	Special categories of equipment containing moving parts	the the second	N/A
8.5.4.1	General	A S	N/A
8.5.4.2 🧹	Equipment containing work cells with MS3 parts	E L	N/A
8.5.4.2.1	Protection of persons in the work cell	× A	N/A
8.5.4.2.2	Access protection override	4 4	N/A
8.5.4.2.2.1	Override system	4 8	N/A
8.5.4.2.2.2	Visual indicator	4	N/A
8.5.4.2.3	Emergency stop system	A	N/A
A	Maximum stopping distance from the point of activation (m)	A A	N/A
2	Space between end point and nearest fixed mechanical part (mm)	t -	N/A
8.5.4.2.4	Endurance requirements	+ 5	N/A
A.	Mechanical system subjected to 100 000 cycles of operation	A A	N/A
	- Mechanical function check and visual inspection	2	N/A
	- Cable assembly:	4 8	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	A R	N/A
8.5.4.3.1	Equipment safeguards	A Y	N/A
8.5.4.3.2 🥖	Instructional safeguards against moving parts:	55	N/A
8.5.4.3.3	Disconnection from the supply	S A	N/A
8.5.4.3.4	Cut type and test force (N):	L E	N/A
8.5.4.3.5	Compliance	A	N/A
8.5.5	High pressure lamps	No such lamps provided.	N/A
	Explosion test	t	N/A
8.5.5.3	Glass particles dimensions (mm)	A E	N/A
8.6	Stability of equipment	5	N/A
8.6.1	General		N/A
	Instructional safeguard	15	N/A

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8.6.2	Static stability	t to	N/A
8.6.2.2	Static stability test:	25 4	N/A
8.6.2.3	Downward force test	5 5 5	N/A
8.6.3	Relocation stability	5	N/A
	Wheels diameter (mm):	15 L	_
5	Tilt test	8 19	N/A
8.6.4	Glass slide test	1	N/A
8.6.5	Horizontal force test	5 5	N/A
8.7 🚫	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:		N/A
8.7.2	Test methods	A S	N/A
A	Test 1, additional downwards force (N):	4 3	N/A
2	Test 2, number of attachment points and test force (N)	to .	N/A
÷	Test 3 Nominal diameter (mm) and applied torque (Nm)	The second	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
5	Number of handles:	R D	_
5	Force applied (N):	< × 5	N/A
8.9	Wheels or casters attachment requirements	E	N/A
8.9.2	Pull test	LE L	N/A
8.10	Carts, stands and similar carriers	5 19	N/A
8.10.1	General	4 2	N/A
8.10.2	Marking and instructions:	XX	N/A
8.10.3 🍝	Cart, stand or carrier loading test	the the	N/A
5	Loading force applied (N):	N R	N/A
8.10.4	Cart, stand or carrier impact test	A A	N/A
8.10.5 💉	Mechanical stability	x s	N/A
~	Force applied (N)	de la companya de la comp	N/A
8.10.6	Thermoplastic temperature stability	A R	N/A
8.11 🔔	Mounting means for slide-rail mounted equipment	t (SRME)	N/A
8.11. <mark>1</mark>	General		N/A
8.11.2	Requirements for slide rails	1	N/A

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2	Instructional Safeguard	t at	N/A
8.11.3	Mechanical strength test	25 0	N/A
8.11.3.1	Downward force test, force (N) applied:	4 5	N/A
8.11.3.2	Lateral push force test	5	N/A
8.11.3.3	Integrity of slide rail end stops	to L	N/A
8.11.4	Compliance	S A	N/A
8.12	Telescoping or rod antennas	4 2	N/A
	Button/ball diameter (mm):	A S	

		100
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:	Р
9.3.2	Test method and compliance	Р
9.4	Safeguards against thermal energy sources	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
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		Р
10.2	Radiation energy source classification	5	P
10.2.1	General classification	RS1: LCD display	Р
	Lasers:	2 5	_
	Lamps and lamp systems:	LCD display comply with RS1	
6	Image projectors	1 2	
- S	X-Ray	4 4	
	Personal music player	5	
10.3	Safeguards against laser radiation	4 5	N/A
Tel	The standard(s) equipment containing laser(s) comply		N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	Р

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Clause	Requirement + Test	Result - Remark	Verdict
ter .	to to the total to	"hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	A.L.
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	the state	N/A
10.6.6.1	Corded listening devices with analogue input	S A	N/A
5	Listening device input voltage (mV):	4 2	N/A
10.6.6.2	Corded listening devices with digital input	A S	N/A
~	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	S L	N/A
10.6.6.3	Cordless listening devices	2	N/A
	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNO CONDITION TESTS AND SINGLE FAULT CONDIT		P
B.1	General	1 5	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	νР
B.2	Normal operating conditions		P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Ρ
The second	Audio Amplifiers and equipment with audio amplifiers:	E. R	Р
B.2.3	Supply voltage and tolerances	5 1	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	A A	Р
B.3.1	General	5 8	Р
B.3.2	Covering of ventilation openings	4	N/A
4	Instructional safeguard:	15 5	N/A
B.3.3	DC mains polarity test	S A	N/A
B.3.4	Setting of voltage selector	6 5	N/A
B.3.5 🧷	Maximum load at output terminals	AT I	N/A
B.3.6 🚫	Reverse battery polarity	4 4	N/A
B.3.7	Audio amplifier abnormal operating conditions	Short circuit of speaker considered.	Ρ
B.3.8	Safeguards functional during and after abnormal operating conditions	1 4 4	P
B.4	Simulated single fault conditions	L	Р
B.4.1	General	AT.	Р

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С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	+ 5	N/A
C.1.3	Test method	2 0	N/A
C.2	UV light conditioning test	< x 5	N/A
C.2.1	Test apparatus	E C	N/A
C.2.2	Mounting of test samples	A V	N/A
C.2.3	Carbon-arc light-exposure test	S A	N/A
C.2.4	Xenon-arc light-exposure test	4 4	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

Е	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS Electrical energy source classification for audio signals		R P
E.1			N/A
4	Maximum non-clipped output power (W):	1	
E	Rated load impedance (Ω):	1	_
	Open-circuit output voltage (V):	/	

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Clause	Requirement + Test	Result - Remark	Verdic
	Instructional safeguard:	1 1 15	
E.2	Audio amplifier normal operating conditions	- 2 5 4	P
× .	Audio signal source type:	4 5	
	Audio output power (W):	See table 4.1.2	
	Audio output voltage (V):	See table 4.1.2	
5 .	Rated load impedance (Ω):	See table 4.1.2	
	Requirements for temperature measurement	4	N/A
E.3	Audio amplifier abnormal operating conditions	5 8	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General	. 8	Р
E.	Language	English.	
F.2	Letter symbols and graphical symbols	t.	P
F.2.1	Letter symbols according to IEC60027-1	A S	N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	1 A .	Р
F.3	Equipment markings	A	Р
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	Р
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	SA	N/A
F.3.3.1	Equipment with direct connection to mains	1 th	N/A
F.3.3.2	Equipment without direct connection to mains	the state	Р
F.3.3.3 人	Nature of the supply voltage	Y	N/A
F.3.3.4	Rated voltage	V A	N/A
F.3.3.5	Rated frequency:	4 2	N/A
F.3.3.6	Rated current or rated power:	1 5	N/A
F.3.3.7	Equipment with multiple supply connections	Only one connection.	SN/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	A X	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking	45	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.3	Replacement fuse identification and rating markings	to to a	N/A
A .	Instructional safeguards for neutral fuse	E E L R	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	S A	N/A
F.3.5.6	Terminal marking location	4 2	N/A
F.3.6	Equipment markings related to equipment classification	AT X	N/A
F.3.6.1	Class I equipment	N A	N/A
F.3.6.1.1	Protective earthing conductor terminal	X S	N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:	5 5	N/A
F.3.6.3	Functional earthing terminal marking:	t.	N/A
F.3.7	Equipment IP rating marking	XE	N/A
F.3.8	External power supply output marking	. 8	N/A
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions.	Р
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	A X	P
8	a) Information prior to installation and initial use	2 8	N/A
	 Equipment for use in locations where children not likely to be present 	to the	Р
6 5	c) Instructions for installation and interconnection	ST E A	N/A
	 Equipment intended for use only in restricted access area 	t the	N/A
4	e) Equipment intended to be fastened in place	LE	N/A
5	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A
A	h) Protective conductor current exceeding ES2 limits	AL S	N/A
E	i) Graphic symbols used on equipment		N/A
	j) Permanently connected equipment not provided with all-pole mains switch	AT I I	N/A

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-	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
	k) Replaceable components or modules providing safeguard function	to the	N/A
AT .	I) Equipment containing insulating liquid	2 4 4 2	N/A
	m) Installation instructions for outdoor equipment	V	N/A
F.5	Instructional safeguards	at T	Р
G	COMPONENTS	N K	Р
G.1	Switches	15 5	N/A
G.1.1	General	5 5	N/A
G.1.2 🍝	Ratings, endurance, spacing, maximum load	X	N/A
G.1.3	Test method and compliance		N/A
G.2	Relays	A S	N/A
G.2.1 🎺	Requirements	* *	N/A
G.2.2	Overload test	t.	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	A. A.	N/A
G.2.4	Test method and compliance	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
G.3	Protective devices	4	N/A
G.3.1	Thermal cut-offs	R	N/A
t.	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	E. A	N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)	A A	N/A
G.3.1.2	Test method and compliance	4	N/A
G.3.2	Thermal links	Les Les	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	4	N/A
4	b) Thermal links tested as part of the equipment	A A	N/A
G.3.2.2	Test method and compliance	the second secon	N/A
G.3.3	PTC thermistors	4	N/A
G.3.4	Overcurrent protection devices	HI .	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	4	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	ALLA LA	N/A
G.3.5.2	Single faults conditions	1 A	N/A
G.4	Connectors		N/A
G.4.1	Spacings	19	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	Mains connector configuration:	+ it	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	S S + A	N/A
G.5	Wound components	A S	Р
G.5.1	Wire insulation in wound components	+ 3	N/A
G.5.1.2	Protection against mechanical stress	e t	N/A
G.5.2	Endurance test	15	N/A
G.5.2.1	General test requirements	LA	N/A
G.5.2.2	Heat run test	A \$	N/A
5	Test time (days per cycle):	15	_
	Test temperature (C):	A S	
G.5.2.3	Wound components supplied from the mains	S. C.	N/A
G.5.2.4	No insulation breakdown	5	N/A
G.5.3	Transformers	de la	N/A
G.5.3.1	Compliance method:	A S	N/A
×	Position:	5	N/A
E	Method of protection		N/A
G.5.3.2	Insulation	41	N/A
	Protection from displacement of windings:	A E	
G.5.3.3	Transformer overload tests	E A	N/A
G.5.3.3.1	Test conditions	1 2 2	N/A
G.5.3.3.2	Winding temperatures	5	N/A
G.5.3.3.3	Winding temperatures - alternative test method	AT 1	N/A
G.5.3.4	Transformers using FIW	S A	N/A
G.5.3.4.1	General	* ~	N/A
4	FIW wire nominal diameter	A E	
G.5.3.4.2	Transformers with basic insulation only	t	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	to the	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	4	N/A
G.5.3.4.5	Thermal cycling test and compliance	at 1	N/A
G.5.3.4.6	Partial discharge test	5 5	N/A
G.5.3.4.7	Routine test	5	N/A
G.5.4	Motors		Р
G.5.4.1	General requirements	5	Р

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.2	Motor overload test conditions	+ A	N/A
G.5.4.3	Running overload test	85 0	N/A
G.5.4.4.2	Locked-rotor overload test	2 1 5	N/A
	Test duration (days):	S. C.	
G.5.4.5	Running overload test for DC motors	5	N/A
G.5.4.5.2	Tested in the unit	S A	N/A
G.5.4.5.3	Alternative method	4 2	N/A
G.5.4.6	Locked-rotor overload test for DC motors	* 5	N/A
G.5.4.6.2	Tested in the unit	L.	N/A
- 7	Maximum Temperature:	A A	N/A
G.5.4.6.3	Alternative method	A 2	N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		< <u></u> N/A
G.5.4.9	Series motors	AT I	N/A
	Operating voltage:	A 2	
G.6	Wire Insulation	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
G.6.1	General	t s	N/A
G.6.2	Enamelled winding wire insulation	E E	N/A
G.7	Mains supply cords	A	N/A
G.7.1	General requirements	8	N/A
2	Type	4 4	
G.7.2	Cross sectional area (mm ² or AWG):	* *	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	is p	N/A
G.7.3.2	Cord strain relief	4 4	N/A
G.7.3.2.1	Requirements	A E	N/A
1 5	Strain relief test force (N):	t	N/A
G.7.3.2.2	Strain relief mechanism failure	E E	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	AT T	N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry	1-	N/A
G.7.5	Non-detachable cord bend protection	A K	N/A
G.7.5.1	Requirements	2 3	N/A
G.7. <mark>5.</mark> 2	Test method and compliance	~	N/A
5	Overall diameter or minor overall dimension, <i>D</i> (mm)	15	

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	IEC 62368-1	5 5 5 3	8 3
Clause	Requirement + Test	Result - Remark	Verdict
2	Radius of curvature after test (mm):	t of	
G.7.6	Supply wiring space	8 5 0	N/A
G.7.6.1	General requirements	5 4 5	N/A
G.7.6.2	Stranded wire	5	N/A
G.7.6.2.1	Requirements	5	N/A
G.7.6.2.2	Test with 8 mm strand	S A	N/A
G.8	Varistors	4 2	N/A
G.8.1	General requirements	A S	N/A
G.8.2 💉	Safeguards against fire	E L	N/A
G.8.2.1	General	A A	N/A
G.8.2.2	Varistor overload test	4 2	N/A
G.8.2.3	Temporary overvoltage test	4 8	N/A
G.9 🍣	Integrated circuit (IC) current limiters	0	N/A
G.9.1	Requirements	A	N/A
	IC limiter output current (max. 5A):	AT E	
15	Manufacturers' defined drift:	- E	
G.9.2	Test Program	t	N/A
G.9.3	Compliance		N/A
G.10	Resistors	AT S.	N/A
G.10.1	General	S R	N/A
G.10.2	Conditioning	4 3	N/A
G.10.3	Resistor test	+ 8	N/A
G.10.4	Voltage surge test	2 A	N/A
G.10.5	Impulse test	2 8	N/A
G.10.6	Overload test	LE .	N/A
G.11 🛛 🖌	Capacitors and RC units	AT S	N/A
G.11.1	General requirements	E IF	N/A
G.11.2	Conditioning of capacitors and RC units	L 5	N/A
G.11.3 🥖	Rules for selecting capacitors	AT I DE	N/A
G.12 🥏	Optocouplers	15 R	N/A
	Optocouplers comply with IEC 60747-5-5 with specifics	t to	N/A
1	Type test voltage V _{ini, a} :	A R	
A	Routine test voltage, V _{ini, b} :		
G.13	Printed boards	1	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6			
G.13.1	General requirements	of the	Р
G.13.2	Uncoated printed boards	55 0	P
G.13.3	Coated printed boards	1 15 8	N/A
G.13.4	Insulation between conductors on the same inner surface	t f	N/A
G.13.5	Insulation between conductors on different surfaces	E E	N/A
41	Distance through insulation	5 4 5	N/A
	Number of insulation layers (pcs)	1	
G.13.6 📈	Tests on coated printed boards	A 5	N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance	X S	N/A
G.14	Coating on components terminals	. 8	N/A
G.14.1	Requirements	2 2	N/A
G.15	Pressurized liquid filled components	15 .	N/A
G.15.1	Requirements	A S	N/A
G.15.2	Test methods and compliance	E T	N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test	LT.	N/A
G.15.2.3	Tubing and fittings compatibility test	A E	N/A
G.15.2.4	Vibration test	8 4	N/A
G.15.2.5	Thermal cycling test	5 * 5	N/A
G.15.2.6	Force test	E C	N/A
G.15.3	Compliance	JE L	N/A
G.16	IC including capacitor discharge function (ICX)	S A	N/A
G.16.1	Condition for fault tested is not required	+ 2	N/A
	ICX with associated circuitry tested in equipment	XX	N/A
5	ICX tested separately	St F	N/A
G.16.2	Tests	e la	N/A
A	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	The second	—
2	Mains voltage that impulses to be superimposed on	A A	—
1	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	15 5	_
G.16.3	Capacitor discharge test	~	N/A

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Clause	Requirement + Test	Result - Remark	Verdic
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	8 5 1	N/A
H.2	Method A	2 4 5	N/A
H.3	Method B	5	N/A
H.3.1	Ringing signal	DE L	N/A
H.3.1.1	Frequency (Hz):	A A	_
H.3.1.2	Voltage (V):	4 2	
H.3.1.3	Cadence; time (s) and voltage (V):	X S	
H.3.1.4	Single fault current (mA):	L L	
H.3.2	Tripping device and monitoring voltage	L. L.	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Star A	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)	L.	N/A
	6 5	A S	
J	INSULATED WINDING WIRES FOR USE WITHOUT IN INSULATION	ITERLEAVED	N/A
J.1	General	t	N/A
	Winding wire insulation:	L 5	
t	Solid round winding wire, diameter (mm):	A	N/A
<u>s</u>	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²)	2 15 2	N/A
J.2/J.3	Tests and Manufacturing	1 5	N/A
		4	
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Instructional safeguard		N/A
K.3	Inadvertent change of operating mode		N/A N/A
K.4	Interlock safeguard override		N/A
K.5 🖉	Fail-safe	8	N/A
K.5.1	Under single fault condition	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
K.6	Mechanically operated safety interlocks	1	N/A
K.6.1	Endurance requirement	1- 64	N/A
K.6.2	Test method and compliance:		N/A
	. eet metree and compilation		

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IEC 62368-1 Requirement + Test Result - Remark Verdict Clause K.7.1 Separation distance for contact gaps & interlock N/A circuit elements In circuit connected to mains, separation distance N/A for contact gaps (mm): In circuit isolated from mains, separation distance N/A for contact gaps (mm): Electric strength test before and after the test of N/A K.7.2....: K.7.2 Overload test, Current (A)..... N/A K.7.3 Endurance test N/A K.7.4 N/A Electric strength test

L DISCONNECT DEVICES			N/A
L.1	General requirements	Not directly connected to the mains	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
	Instructional safeguard:		N/A

м	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells	4 7	Р
M.2.1	Batteries and their cells comply with relevant IEC standards:		Р
М.3	Protection circuits for batteries provided within the equipment	A LE	Р
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery	(See appended table M.3)	Р
	Excessive discharging	(See appended table M.3)	Р
	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

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Clause	Requirement + Test	Result - Remark	Verdic
M.3.3	Compliance	(See appended table M.3)	Р
M.4	Additional safeguards for equipment containing a battery	a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards	4 5	Р
M.4.2.1	Requirements	A DE	P
M.4.2.2	Compliance	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:		Р
M.4.4	Drop test of equipment containing a secondary lithium battery	AL S X	P
M.4.4.2	Preparation and procedure for the drop test		Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		Р
M.4.4.4	Check of the charge/discharge function		Р
M.4.4.5	Charge / discharge cycle test		Р
M.4.4.6	Compliance		Р
M.5	Risk of burn due to short-circuit during carrying	I	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		Р
M.7	Risk of explosion from lead acid and NiCd batteri	es 🖉	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
4	Minimum air flow rate, Q (m ³ /h)	AT S	N/A
M.7.3	Ventilation tests	S A	N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking		N/A

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1	IEC 62368-1	2 5	5 5
Clause	Requirement + Test	Result - Remark	Verdict
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General		N/A
M.8.2	Test method	AL C	N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):		
M.8.2.3	Correction factors		
M.8.2.4	Calculation of distance <i>d</i> (mm):		
М.9	Preventing electrolyte spillage	A A	N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		Р
	Instructional safeguard		P

Ν	ELECTROCHEMICAL POTENTIALS	N/A
	Material(s) used:	

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	
	Value of <i>X</i> (mm):	_
15		

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	N/A
	Location and Dimensions (mm):	
P.2.3	Safeguards against the consequences of entry of a foreign object	N/A
P.2.3.1	Safeguard requirements	N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	N/A
	Transportable equipment with metalized plastic parts:	N/A
P.2.3.2	Consequence of entry test:	N/A
P.3 🖉	Safeguards against spillage of internal liquids	N/A
P.3.1	General	N/A
P.3.2	Determination of spillage consequences	N/A

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	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
P.3.3	Spillage safeguards		N/A		
P.3.4	Compliance		N/A		
P.4	Metallized coatings and adhesives securin	ig parts	N/A		
P.4.1	General		N/A		
P.4.2	Tests		N/A		
	Conditioning, T _C (°C)	:			
	Duration (weeks)	:			

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		Р
Q.1 <	Limited power sources	۲ <u>ل</u> م	P
Q.1.1	Requirements		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		Р
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance:	(see appended table Annex Q)	Р
	Current rating of overcurrent protective device (A)		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		N/A
	Current limiting method:		

R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General	N/A
R.2	Test setup	N/A
	Overcurrent protective device for test:	
R.3	Test method	N/A
	Cord/cable used for test:	
R.4	Compliance	N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	
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	—

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IEC 62368-1 Requirement + Test Result - Remark Verdict Clause Wall thickness (mm).....: Conditioning (C) Test flame according to IEC 60695-11-5 with N/A conditions as set out - 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) S.3 Flammability test for the bottom of a fire enclosure N/A S.3.1 Mounting of samples N/A S.3.2 Test method and compliance N/A Mounting of samples Wall thickness (mm).....: Flammability classification of materials S.4 N/A S.5 Flammability test for fire enclosures and fire barrier materials of equipment N/A where the steady state power exceeding 4 000 W Samples, material Wall thickness (mm).....: Conditioning (C):

т	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:		N/A
Т.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N	(See appended table T.4)	Р
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
Т.6	Enclosure impact test	(See appended table T.6)	N/A
-	Fall test		N/A
	Swing test		N/A
T.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

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Clause	Requirement + Test Result - Remark	Verdic
T.10	Glass fragmentation test	N/A
	Number of particles counted: No such glass provided.	N/A
T.11	Test for telescoping or rod antennas	N/A
	Torque value (Nm): No such antennas provide	ed. N/A
		1
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECT AGAINST THE EFFECTS OF IMPLOSION	TION N/A
U.1	General	N/A
	Instructional safeguard :	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs	N/A
U.3	Protective screen	N/A
V	DETERMINATION OF ACCESSIBLE PARTS	N/A
V.1	Accessible parts of equipment	N/A
V.1.1	General	N/A
V.1.2	Surfaces and openings tested with jointed test probes	N/A
V.1.3	Openings tested with straight unjointed test probes	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	N/A
V.1.5	Slot openings tested with wedge probe	N/A
V.1.6	Terminals tested with rigid test wire	N/A
V.2	Accessible part criterion	N/A
x	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULAT IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)	
	Clearance:	N/A
	A A A M	2
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	N/A
Y.3	Resistance to corrosion	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	N/A
Y.3.2	Test apparatus	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	N/A
Y.3.4	Test procedure:	N/A

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IEC 62368-1 Requirement + Test Result - Remark Verdict Clause Y.3.5 Compliance N/A Y.4 Gaskets N/A Y.4.1 General N/A Y.4.2 Gasket tests N/A Y.4.3 Tensile strength and elongation tests N/A Alternative test methods N/A Y.4.4 N/A Compression test Y.4.5 Oil resistance N/A Y.4.6 Securing means N/A Y.5 N/A Protection of equipment within an outdoor enclosure Y.5.1 General N/A Y.5.2 Protection from moisture N/A Relevant tests of IEC 60529 or Y.5.3..... N/A Y.5.3 Water spray test N/A Y.5.4 Protection from plants and vermin N/A Y.5.5 N/A Protection from excessive dust Y.5.5.1 N/A General Y.5.5.2 IP5X equipment N/A Y.5.5.3 N/A IP6X equipment 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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Clause	Requirement + Test		Result - Remark				
5.2	TABLE: Classificat	ion of electrical					
Supply Voltage	Location (e.g. circuit	Test conditions			ES Class		
voltage	designation)	conditions	U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	
适配器型号注	为: QZ-01000EA00	. 8		Å			
X S	5	Normal	5.01VDC	1		- 4	~ ~
5VDC	Input circuit	Abnormal:	- 4		- 1	5	ES1
	S. S.	Single fault:	4	- 4			
适配器型号关	为:HJ-0502000-EU	+ 5		A	7		4
- 2	6	Normal	5.01VDC	V		- 4	~
5VDC	Input circuit	Abnormal:	1		5	~	ES1
	5	Single fault:	7	H	5		
Battery		4 5		H			K
	. 8	Normal	4.4VDC	2		4	~
Fully battery	/ Battery cell	Abnormal:	8-		Æ	5-	ES1
	5	Single fault:		+	<u> </u>		

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: Work	king volta	ge measureme	nt 🤝	5	Y	N/A
Location			RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
54.	- 1	7		1÷		13	
Supplement	tary information	:					
×	/	A	2		4 2		M

5.4.1.10.2 TABLE: Vicat soft	~	N/A			
Method		:	ISO 306 / B50		
Object/ Part No./Material	Manufacturer/trademark		Thickness (mm)	T softeni	ng (°C)
- * *	- 19	2		45 -	
Supplementary information:					
	13				80

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	5 2	IEC 623	368-1		E 2 3	51	8 L	
Clause	ause Requirement + Test			Result - Remark			Verdict	
5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						N/A		
Allowed impression diameter (mm)								
Object/Part No./Material Manufacturer/trademark Thicknes				(mm)	Test temperature (°C)		ression ter (mm)	
- * * - * - * -							- /	
Supplemen	Supplementary information:							
6								

5.4.2, 5.4.3 TABLE: N	Ainimum Cl	earances/	Creepag	e distance	AT	5		N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
- 55	-	- 4	V 		L - 3	-		t
Supplementary information	ation:							

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: Minimun	ABLE: Minimum distance through insulation						
Distance the (DTI) at/of	Distance through insulation Peak voltage (V) Insulation Required DTI (mm)							
- 1	2	<u> </u>		-	1- 2			
Supplement	tary information:							

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							
Insulation material	Ep	Frequency (kHz)	$K_{ m R}$	Thickness d (mm)	Insulation	V _{PW} (Vpk)	
- 4	1=	8-		5-5		- 45	
Supplementary information:		<u> </u>					

5.4.9 TABLE: Electric strer	ngth tests	2	N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	A	2	No.
- 5 1	2 - 2	~	~
Basic/supplementary:	A V	4	

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	E E	A	IEC 62368-1	2 3	5 8 3
Clause	Requirement +	Test		Result - Remark	Verdict
<u>ŝ</u>	Ś	-	4 -	1 A	
Reinforce	d: 🥂	A.	2	AL	XX
47	5 1	~ ~	-47	2 - 2	8-2
Routine T	ests:		4 2	E.	
	5 2	1 5		1 -	/
Suppleme	entary information:		·		
20			15		5

5.5.2.2 TABLE: Stored discharge on capacitors						N/A
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class
	~	-		*- 5		t

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	N/A			
Location Test current Duration Voltage drop (A) (min) (V)					
	+ ~	-47	5 - X	2-	- *

Supplementary information:

5.7.4	5.7.4 TABLE: Unearthed accessible parts									
Location		Operating and	Supply	F	ES					
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current Freq. (A _{rms} or A _{pk}) (Hz)		class			
	2	-			AT S		,C			
Supplementary information:										
Abbrowietie	Abbraviation: SCE abort airquit: OCE anon airquit									

Abbreviation: SC= short circuit; OC= open circuit

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	5 8 8	IEC 62368-1	K 5
Clause	Requirement + Test	Result - Remark	Verdict
		AT S	•

5.7.5	TABLE: Earthed access	ible conductive part	AT A	N/A
Supply vo	Itage (V)	LT.	-5 5	+ 1 -
Phase(s)	· · · · ·	[] Single Phase; [] Three	Phase: [] Delta	[] Wye
Power Dis	stribution System	[] TN []TT [] IT	t r	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comment
	H	1 🖉	- 4	
		2*	5-5	- +
1		3	S 1	XE
		4 🍼		14- 5
		5	27	< <u>-</u>
		6	4 2	- 15
~		8		1-5

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: Backfeed safeguard in battery backed up supplies									
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class		
2		14-5		15-	·	4			
Supplementary information:									
Abbreviatio	Abbreviation: SC= short circuit, OC= open circuit								

6.2.2	TABLE: Power source	circuit classifica	tions	A	P				
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class			
Battery pack	Normal	3.61 人	8.0	28.86	5	PS2			
Battery cell	Normal	2.12	25.7	54.45	5	PS2			
Type-C	Normal	4.58	1.5	6.87	3	PS1			
Type-C	Abnormal:U2602 pin 1-14	2.87	2.486	7.134	3	PS1			

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	5 2 4	IEC 62368-1	- 8 5 3	5 8
Clause	Requirement + Test	1	Result - Remark	Verdi
Suppleme	entary information:			
Abbreviat	tion: SC= short circuit; OC= open circ	cuit	A 12	A A
1) Meas	sured after 3 s for PS1 and measured	after 5 s for PS2 a	and PS3.	

6.2.3.1	TABLE: Determ	ination of Arcing PIS	A		N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	cing PIS? Yes / No
<u>.</u>	Ľ	- *		A.	
Suppleme	ntary information:				

5.2.3.2 TABLE: Determination of resistive PIS									
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No						
Battery pack	5 - 2 5	>15	Yes						
Battery cell	* - ~	>15	Yes						
Supplementary information:									
Abbroviation: SC- abort a			2						

Abbreviation: SC= short circuit; OC= open circuit

8.5.5	TABLE: High pre	essure lamp	4	N/A	
Lamp manufacturer		Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
	4 4	- + 5	+	V	
Supplement	tary information:				
S	4	~	X		

9.6	9.6 TABLE: Temperature measurements for wireless power transmitters								
Supply volta	ige (V)			:	< /				
Max. transm	Max. transmit power of transmitter (W):						t	2	
			eiver and contact		eiver and contact				iver and at e of 5 mm
Foreign ol	bjects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
*-	5		1	-			2- 1	-	1.
Supplement	Supplementary information:								

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Clause	Requirement + T	est			Resul	t - Remark		Verdic	
5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	rature mea	asurem	ents				Р	
Supply vol	tage (V)		:	A	В	~ ~ ~			
Ambient te	mperature during	test T _{amb} (°	C):	See below	See below		- 4		
Maximum	measured tempera	ature <i>T</i> of p	oart/at:		T (°	C)		Allowed T _{max} (°C)	
PCB near	U2602	-	15	37.2	50.9	1		130	
PCB near	U900	A		36.1	49.6		- 15	130	
Battery sur	face 🔶 🕺	~		34.5	48.8	*	-5	Ref.	
Enclosure	inside near battery	/	4	33.3	48.1	~	-	Ref.	
Ambient		t.	2	25.0	40.0			19	
Accessibl	e part	K.		4	to e to				
Enclosure	outside near batte	ry		31.6	31.3	The second	5-	48	
Enclosure	outside near type-	c port	4	34.2	28.2	5-		Ref.	
Button		F 2		30.0	28.9			48	
Screen	XX			36.4	34.9		AT	48	
Adapter su	Irface	4	X.	38.3		1		77	
Ambient	~	5		25.0	25.0	<u>~</u>		5-	
Temperatu	re T of winding:	t ₁ (°C)	R ₁ (Ω	$t_2 (°C)$) R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class	
	5 3				>	~			

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

A: Charge empty battery, play 1KHz audio signal, maximum sound, maximum brightness.

B: Fully charged battery, play 1KHz audio signal, maximum sound, maximum brightness.

B.2.5 TABLE: Input test			A	5	1 1	Q.	Р		
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
型号为: QZ-01000EA00					1 3			L.	
5VDC	10	1.234	2	6.17	- 2	- 4	4 2	Empty battery Only charge. Battery current:1.305A	

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Clause	Peg	uirement +	Loct				Pocult P	Result - Remark Vero		Verdict
Clause	Ney		Test		4		Result - R	emark		veruic
5VDC	A DIA	1.059	2	5	.295	-	WHE	The state	Empty ba charge a running. current: (nd EUT Battery
型号为: HJ	J-0502	000-EU								
5VDC	TEL.	1.681	2	8	.405	t	Wat	- +	Empty ba Only cha Battery current:1	rge.
5VDC	7-	1.621	2	8	.105	F - 15	Wat	12 - N	Empty ba charge a running. current: (nd EUT Battery
battery		×	2			47		x	5	
4.4VDC	_	-	A.	1 AN	to V	-	\$- V		discharg	battery e. Battery t:2.135A
Supplemen	tarv ir	formation								
Equipment 1. The me apparat 2. The me	may b easure tus wa easure	e have ra d input po is operate d input cu	ted curr wer did d to pro rrent or	not exce duce the input po	eed the ma maximum wer under	or both. Bot rked input r normal inp normal ope	ating by mo ut power.	ore than 10	0% when th	
Equipment 1. The me apparat 2. The me rated cu	may b easure tus wa easure urrent	e have ra d input po is operate d input cu or rated p	ted curr wer did d to pro rrent or ower by	not exce duce the input po more th	eed the ma maximum wer under an 10 %.	rked input r normal inp normal ope	ating by mo ut power. rating cond	ore than 10	0% when th	ed the
Equipment 1. The me apparat 2. The me rated cu B.3, B.4	may b easure tus wa easure urrent TAE	e have ra d input po is operate d input cu or rated p BLE: Abno	ted curr wer did d to pro rrent or ower by	not exce duce the input po more th perating	eed the ma maximum wer under an 10 %. and fault	rked input r normal inp normal ope	ating by mo ut power. rating cond tests	ore than 10 litions, sha	0% when th all not exce	
Equipment 1. The me apparat 2. The me rated cu	may b easure tus wa easure urrent TAE	e have ra d input po is operate d input cu or rated p BLE: Abno	ted curr wer did d to pro rrent or ower by	not exce duce the input po more th perating	eed the ma maximum wer under an 10 %. and fault	rked input r normal inp normal ope	ating by mo ut power. rating cond tests	ore than 10	0% when th all not exce	ed the
Equipment 1. The me apparat 2. The me rated cu B.3, B.4	may b easure tus wa easure urrent TAE mpera	e have ra d input po is operate d input cu or rated p BLE: Abno ture T _{amb}	ted curr wer did d to pro rrent or ower by ormal o	not exce duce the input po more th perating	eed the ma maximum wer under an 10 %. and fault	rked input r normal inp normal ope condition	ating by mo ut power. rating cond tests	ore than 10 litions, sha	0% when th all not exce	ed the
Equipment 1. The me apparat 2. The me rated cu B.3, B.4 Ambient ter	may b easure tus wa easure urrent TAE mpera	e have ra d input po is operate d input cu or rated p BLE: Abno ture T _{amb}	ted curr wer did d to pro rrent or ower by ormal o (°C) nufactur	not exce duce the input po more th perating	eed the ma maximum wer under an 10 %. and fault	rked input r normal inp normal ope condition	ating by mo ut power. rating cond tests	ore than 10 litions, sha See below	0% when th all not exce	ed the P
Equipment 1. The me apparat 2. The me rated cu B.3, B.4 Ambient ter Power sour Componen	may be easure tus was easure urrent TAE mpera rce for it No.	e have ra d input po is operate d input cu or rated p BLE: Abno ture T _{amb} EUT: Ma Condit	ted curr wer did d to pro rrent or ower by ormal op (°C)	not exce duce the input por more the perating rer, mode Supply voltage (V)	eed the ma maximum wer under an 10 %. and fault el/type, out Test time	rked input r normal inp normal ope condition	ating by mo ut power. rating cond tests : : : : : : : : : : : : : : : : : :	ore than 10 litions, sha See below	0% when th all not exce	ed the P
Equipment 1. The me apparat 2. The me rated cu B.3, B.4 Ambient ter Power sour Componen	may be easure tus was easure urrent TAE mpera rce for it No.	e have ra d input po is operate d input cu or rated p BLE: Abno ture T _{amb} EUT: Ma Condit	ted curr wer did d to pro rrent or ower by ormal of (°C) nufactur ion er adap	not exce duce the input por more the perating rer, mode Supply voltage (V)	eed the ma maximum wer under an 10 %. and fault el/type, out Test time	rked input r normal inp normal ope condition putrating Fuse no.	ating by mo ut power. rating cond tests : : : : : : : : : : : : : : : : : :	See below Unit norm battery c no dama Battery, r	0% when th all not exce	ed the P n on, empty 7hours. ards. n,
Equipment 1. The me apparat 2. The me rated cu B.3, B.4 Ambient ter Power sour Componen Off mode, s	may beasure tus was easure urrent TAE mpera rce for at No.	e have rai d input po is operate d input cu or rated p GLE: Abno ture Tamb EUT: Mai Condit ed by pow SC	ted curr wer did d to pro rrent or ower by ormal of (°C) nufactur ion er adap	not exce duce the input por more the perating rer, mode Supply voltage (V) ter, char	eed the ma maximum wer under an 10 %. and fault el/type, out Test time ging with a	rked input r normal inp normal ope condition putrating Fuse no.	ating by mo ut power. rating cond tests : : : : : : : : : : : : : : : : : :	See below Unit norn battery c no dama Battery, n explosior leaks. Unit shut no hazar	0% when the all not exce	ed the P — n on, empty 7hours. ards. n, nical damage, no fire,

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Clause Requ	uirement + Test	~		E	Result - R	emark Verdic
U2602 Pin 1-14	SC Overcharge	5V	7hrs	Miles -	And A	Unit normal operation, empty battery charged for 7hours. no damage, no hazards. Battery, no emission, explosion and chemical leaks.
R2618	SC	5V	10mins	-	AL L	Unit shut down, no damage, no hazards. Battery no fire, no leaks, no explosion.
C2620	SC	5V	10mins	S.A.	A	Unit shut down, no damage, no hazards. Battery no fire, no leaks, no explosion.
Speaker	SC	5V	10mins	th.	No. of the second secon	After SC, Unit normal operation, Speaker abnorma no damage, no hazards. Battery no fire, no leaks, no explosion.
On mode, supplie	ed by fully charg	ed battery,	EUT oper	ated norma	ally.	
U900 Pin8-14	SC Over discharging	Fully battery	1hr30mi ns	4-5	-	After SC, Unit normal operation, no damage, no hazards. Battery no fire, no leaks, no explosion.
Type-c output	SC	Fully battery	10mins	LAV		Unit normal operation, no damage, no hazards. Battery no fire, no leaks, no explosion.
Type-c output	overload	Fully battery	1hr20mi ns	A. A.	R.A.	Unit normal operation, no damage, no hazards. Battery no fire, no leaks, no explosion.
Battery B- to P-	SC	Fully battery	10mins	1	LEIN	Unit normal operation, no damage, no hazards. Battery no fire, no leaks, no explosion.
Speaker	sc sc	Fully battery	10mins	t.	AL AN	Unit normal operation, speaker abnormal, no damage, no hazards. Battery no fire, no leaks, no explosion.
R900	SC SC	Fully battery	10mins	·	* *	Unit shut down, no damage, no hazards. Battery no fire, no leaks, no explosion.
	SC 🕺	Fully	10mins	1 - 2		Unit shut down, no damage,

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IEC 62368-1 Result - Remark Verdict Clause Requirement + Test **M.3** TABLE: Protection circuits for batteries provided within the equipment Ρ Is it possible to install the battery in a reverse polarity position? Charging **Equipment Specification** Voltage (V) Current (A) 5 2 Battery specification Non-rechargeable batteries Rechargeable batteries Dischargin Unintentional Charging Dischargin Reverse g current charging g current charging Voltage (V) Current (A) Manufacturer/type (A) current (A) (A) current (A) Hunan Gaoyuan Battery 3.0 Co.,Ltd./LI466591GY 4.4 4.0 (15-45°C) 1.036 4.4 4.0 (0-15°C) Note: The tests of M.3.2 are applicable only when above appropriate data is not available. Specified battery temperature (°C) 0-60 Component Current Voltage Observation Fault Charge/ Test time Temp. (°C) condition No. discharge mode (A) (V) 0°C -15°C Normal Battery: 0.936 Unit normal Battery Charge 2hrs 4.4 condition 20mins 8.5°C operation, NL, NS, NE, NF. No Ambient: hazard. 8.0°C Single fault 0.957 4.4 Unit normal Battery 7hrs Charge Battery: U2602 Pin operation, NL, NS, 8.9°C NE, NF. No 1-14 Ambient: hazard. 0°0.8 15°C -45°C Battery Normal Charge 2hrs Battery: 1.763 4.4 Unit normal condition 20mins operation, NL, NS, 34.5°C NE, NF. No Ambient: hazard. 25.0°C Single fault 2.486 Unit normal Battery Charge 7hrs Battery: 4.4 U2602 Pin operation, NL, NS,

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	5 3	4	IEC 623	368-1	8		583
Clause	Requirement	+ Test		E	Result - Rer	mark	Verdict
de la	1-14	L. L.	A	37.2 °C Ambient: 25.0 °C	Wigh	WER	NE, NF. No hazard.
Battery	Normal condition	Discharge	3hrs 20mins	Battery: 48.8°C Ambient: 40.0°C	2.135	4.4	Unit normal operation, NL, NS, NE, NF. No hazard.
Battery	Single fault: U900 Pin 8-14	Discharge	1hr 30mins	Battery: 49.7 °C Ambient: 40.0 °C	2.474	4.4	Unit normal operation, NL, NS, NE, NF. No hazard.
Supplemen	8-14 tary information	<u>ک</u> ۱:		40.0°C	2		

Abbreviation:

SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

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Clause	Require	ment + Test	5 5	24	Result - R	emark	Verdict
Clause	rtequire			* *	Result - R	Cinan	Verdie
		2	+ 4	~	4	- 15	
M.4.2	TABLE battery		eguards for	equipment co	ontaining a	secondary lithium	F P
Maximum	specified of	charging voltage	ə (V)	<u>```</u>	.: 4.4		—
Maximum	specified of	charging curren	t (A)		.: 3.0(15-4	5℃),1.036(0-15℃)	
Highest sp	pecified cha	arging temperat	ture (°C)		.: 60	×	
A		arging temperat					
Battery		Operating		Measurement		Observatio	on
manufactu	irer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
A	+ 4	Normal operation	4.4	1.763		The Battery currer 1.763A. No chemic explosion, molten emission or expuls observed.	cals leak, metal
	Gaoyuan tery	Tested ambient: from 25 °C to 60 °C	4.4		2 - 4 2	When the ambient temperature reach and the battery su temperature reach power bank is prot The current throug Battery changed fr 1.763A to 0A. No o leak, explosion, m metal emission or observed.	es 60°C rface es62°C, ected. h the com chemicals olten expulsior
	I466591G Y	Tested ambient: from 25 °C to 0°C	4.4	0	ref way a	When the ambient temperature reach and the battery su temperature reach power bank is prot The current throug Battery changed fr 1.763A to 0A. No o leak, explosion, m metal emission or observed.	es 0°C rface es -3°C, rected. h the rom chemicals olten
		Abnormal (3 times after drop test)	4.4	1.763	1	Unit normal work. No chemicals leak explosion, molten emission or expuls observed. Battery 1.763A	metal sion

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

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	5 2	E IE	C 62368-1	t.	<u>8</u> <	2	× \$
Clause	Requirement + Test	2	- 4	Result	- Remark		Verdict
Q.1	TABLE: Circuits inte	nded for inte	rconnectior	n with build	ing wiring	(LPS)	N/A
Output	Condition		Time (a)	I _{sc} ((A)	S (\	/A)
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
Туре-С	Normal	5.034	1.5	8	6.99 人	100	5.034
output	Single fault –	0	0	8	0	100	0 🖉
Suppleme	ntary Information:						
200			1.5				

×				5	2	4
T.2, T.3, T.4, T.5	Steady force te	est		\$		A P
Location/Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Top of enclosure	Glass	See table 4.1.2	L - E	100	5	No damaged, no hazard
Side of enclosure	Plastic	See table 4.1.2	-	100	5	No damaged, no hazard
Bottom of enclosure	Plastic	See table 4.1.2	- 15	100	5	No damaged, no hazard
Supplementary inform	nation:T.4	·				
4	~	15			N.	

T.6, T.9	TABLE: Imp	act test 🦿	A	5		N/A
Location/Pa	ırt	Material	Thickness (mm)	Height (mm)	Observatio	n
1	4	15 ×				1
Supplement	tary informatior	ו:				

test	2	S	P
Material	Thickness (mm)	Height (mm)	Observation
Glass	See table 4.1.2	1000 🔨	No damaged, no hazard
Plastic	See table 4.1.2	1000	No damaged, no hazard
Plastic	See table 4.1.2	1000	No damaged, no hazard
:	-		
	Glass Plastic	MaterialThickness (mm)GlassSee table 4.1.2PlasticSee table 4.1.2PlasticSee table 4.1.2	MaterialThickness (mm)Height (mm)GlassSee table 4.1.21000PlasticSee table 4.1.21000PlasticSee table 4.1.21000

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Clause	Require	ement + Test	2	K	Result -	Remark	1 4	Verdict
T.8	TABLE	: Stress relief	test	~ ~		LA		Р
Location/Pa	art	Material	Thickness (mm)	Oven Temp (°C)		Duration (h)	Obser	vation
Enclosure		Plastic	See table 4.1.2	570		7	No dam haza	-
Supplemen	tary infor	mation:						

x	TABLE: Alternati	TABLE: Alternative method for determining minimum clearances distances					
Clearance between:	distanced	Peak of working vo (V)	Itage Required (mm)	cl	Measure (mm)		
	5 5		~	5	- Z		
Supplemen	tary information:						
			1.3			115	

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Clause	Req	uirement + Test	2	Result	- Remark	Verdict
4.1.2	TAR	LE: Critical comp	ononto informati		LA	Р
Object / par		Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Plastic Enclosure	t.	LOTTE CHEMICAL CORPORATION	HN- 3104(+)(f1)(M)	105°C, V-0, 1.5mm thickness Min.	UL 94	UL E115797
-Alt.		SINOPLAST GROUP LTD	JKL6-FR10	60°C, V-0, 0.8mm thickness Min.	UL 94	UL E510002
РСВ		Interchangeable	Interchangeable	V-0, 130°C	UL796	UL
Li-Battery	5	Hunan Gaoyuan Battery Co.,Ltd.	LI466591GY	3.85V, 5180mAh, 19.943Wh	IEC 62133-2: 2017/AMD1: 2021	ZRLK Report: DSP2301104 1-1
LCD	-	CPT Technology (Group) Co.,Ltd	S6068H	Module Size: 6.56" inch	IEC 62368-1	Tested with appliance
LCD		Interchangeable	Interchangeable	Module Size: 6.56" inch	IEC 62368-1	Tested with appliance
2016 Flash	LED	Shineon(Beijing) Technology Co., Ltd	A-SL689BW1D- Q09-2T	DC 350mA	IEC 62471: 2006	SGS. Report No.: SHES201202 576501
Speaker	4	Senner Science Technology Co.,LTD.	S1511840007	8Ω±15%ohm, 2.83V Max 1.2W	IEC 62368-1	Tested with appliance
Motor	A I	Guang' an Chaoying Electronic Technology Co., Ltd.	CY0827-02- FPC-120	2.3VDC, 90mA Max	IEC 62368-1	Tested with appliance
AC Power Adapter	t t	Shenzhen Huajin Electronics Co Ltd	HJ-0502000-EU	Input: 100-240V~, 50/60Hz, 0.3A Output: 5.0VDC/2.0A 10.0W Max	IEC 62368- 1:2018	UL Report: S2212120440 2001
AC Adapter		Guangdong Quanzhi Technology Co., Ltd.	QZ-01000EA00	Input: 100-240V~, 50/60Hz, 0.3A Output: 5.0VDC/2.0A	IEC 62368- 1:2018	TUV Report: CN22SZP7 001
		4	24	10.0W Max	2	14

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

2) License available upon request.

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	EK 北测 [®]	- 4	Report No.: S2308	2504003001
		C62368_1E - ATTACHN	<u>IENT S S</u>	8 2
Clause	Requirement + Test	1 5	Result - Remark	Verdic
	ATTA	CHMENT TO TEST R	EPORT 🔔 🥂	
		IEC 62368-1		
	EUROPEAN GROUP D	IFFERENCES AND NA	ATIONAL DIFFERENCES	
(AUDI	O/VIDEO, INFORMATION AND			- PART 1:
	S.	AFETY REQUIREMEN	ITS)	
Difference	es according to EN	IEC 62368-1:2020+A1	1:2020	2 2
Attachme	nt Form No.	_GD_IEC62368_1E	A X	
Attachmo	nt Originator: UL((Demko)		
	y the	<		
Master At	tachment 202	21-02-04		
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(IECEE), C	Geneva, Switzerland. All rights	s reserved.	1 5	t
5	CENELEC COMMON MOD	IFICATIONS (EN)	41	×Ρ
			rey are clause references in I	
	those in the paragraph below		bers in that column, except for 1:2018.	
		tables figures and an	aves which are additional to	41
	those in IEC 62368-1:2018 a		nexes which are additional to	-
	Add the following annexes:	de la	A	Р
	Annex ZA (normative)		to international publications	
		esponding European pu		A
	Annex ZB (normative)	Special national condi	tions	5
	Annex ZC (informative)	A-deviations		
	Annex ZD (informative) cords		ode designations for flexible	+ \$
1	Modification to Clause 3.			
3.3.19	Sound exposure	+ ~	15	N/A
	Replace 3.3.19 of IEC 6236	8-1 with the following d	efinitions:	4
3.3.19.1	momentary exposure level	I, MEL	5 1	N/A
	metric for estimating 1 s sour		1 . E	
	the HD 483-1 S2 test signal a channels, based on EN 5033		AT T	
		, T.2010, T.2.	4 5	4
	Note 1 to entry: MEL is measured a	as A-weighted levels in dB.	St at	2
	Note 2 to entry: See B.3 of EN 5033		+ 19	
	information.			

E -

lause	Requirement + Test	Result - Remark	Verdict
.3.19.3	sound exposure, <i>E</i>	+ *	N/A
	A weighted actual process (p) actuared and	AT L	- 4
	A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>	5 7 1 2	4 8
	Note 1 to entry: The SI unit is Pa ² s.	5	
		the second second	1
	$E = \int p(t)^2 dt$	E DE	2
	0	5 LS	
.3.19.4	sound exposure level, SEL	L 2	N/A
	logarithmic measure of sound exposure relative to a	15 8	1
	reference value, E_0 , typically the 1 kHz	5 1	1
	threshold of hearing in humans.	- 4	~
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	15 2	
	E and the second s	5	1
		5 5	14
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	1	5
		A	
	4 + +	AT E	-
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	5	A
.3.19.5	digital signal level relative to full scale, dBFS	-t-	N/A
	levels reported in dBFS are always r.m.s. Full scale	19	
	level, 0 dBFS, is the level of a dc-free 997-	At P	
	Hz sine wave whose undithered positive peak value	2ª	1 1
	is positive digital full scale, leaving the code corresponding to negative digital full scale unused	2 1 5	
	corresponding to negative digital full scale dridsed	4 4	
	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	6 8	
	level of signals with a crest factor lower than that of a sine wave	15 1	
	may exceed 0 dBFS. In particular, square wave signals may reach +3.01 dBFS.	5 4	
	Modification to Clause 10		
0.6	Safeguards against acoustic energy sources	XX	Р
	Replace 10.6 of IEC 62368-1 with the following:		2
0.6.1.1	Introduction	× 19	Р
	Coference of the sector of the	t E	
	Safeguard requirements for protection against long-term exposure to excessive sound pressure	41	t
	levels from personal music players closely coupled	* *	14
	to the ear are specified below. Requirements	4	~
	for earphones and headphones intended for use		
	with personal music players are also covered. A personal music player is a portable equipment	15 8	-L
	intended for use by an ordinary person , that:	5	41
	A STATE		5
	– is designed to allow the user to listen to audio or audiovisual content / material; and	A	
			1

lse	Requirement + Test	Result - Remark	Verdict
-	 earphones that can be worn in or on or around the ears; and has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). 	to way to	ALL ALL
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	5 × ×	A A
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	to and	A
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	5	to an
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	to the state of th	to
	Listening devices sold separately shall comply with the requirements of 10.6.6.	LA	2
	These requirements are valid for music or video mode only. The requirements do not apply to: – professional equipment;	ALL N	to a
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	AT AN	AF &
	 hearing aid equipment and other devices for assistive listening; the following type of analogue personal music players: long distance radio receiver (for example, a 	to stor	to the
	multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder;	the tot the	er de
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	A A	to the
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	to the t	A.
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	A ANA	to a
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	J.	4

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Clause	Requirement + Test	Result - Remark	Verdict
0.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	AT AT	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	AL X	
to the	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	in the start	N A
0.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
0.6.2.1	General	5 2	N/A
		L 5	4
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.	to state	the to
	For classifying the acoustic output $L_{\text{Aeq},T}$,	~	~
	measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	AT .	
	For music where the average sound pressure (long term $LAeq, \tau$) measured over the duration of the song is lower than the average produced by the	A A	to the
	programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.	1 4 4 2	the second se
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq, \tau}$) which is	A A	1
	much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit.	to the -	The second
	For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	A THE AND	T L
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	5 2	N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:	t to	2
	 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 	A A	ALA -
	listening device is known by other means such as setting or automatic detection, the $LAeq, \tau$ acoustic	LET .	

	IEC62368_1E - ATTACHN		8 3
Clause	Requirement + Test	Result - Remark	Verdict
	output shall be ≤ 85 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	to the total	A A
	 ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. The RS1 limits will be updated for all devices as 	the the state	14
0	per 10.6.3.2.	15 5	A
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	St	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:	to a	~
	 for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening 	t 2	A
	device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the $LAeq, \tau$ acoustic output shall be $\leq 100 \text{ dB}(A)$ when playing	to the second	5 L
	the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized	t she t	AT I
	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 ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	- Alt A	t t
0.6.2.4	RS3 limits	5	N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Star It	4
0.6.3	Classification of devices (new)	* *	N/A
0.6.3.1	General	A E	N/A
	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	to the state	the the
10.6.3.2	RS1 limits (new)	5 <	N/A
	RS1 is a class 1 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	the state of the s	they a

lause	Requirement + Test		Result - Remark	Verdict
Jaaoo	Requirement	2	Result Remain	Verdiet
	setting or automatic detection, the $LAeq, \tau acc$		t A	1
	output shall be \leq 80 dB when playing the fixe		AT 14	- 4
	"programme simulation noise" described in E	EN 🔶	5 8 4	2 5
	50332-1.	. 4	~ ~ ~ ~	
	- for equipment provided with a standardized		4 5	
	connector (for example, a 3,5 phone jack) th		S	
	allows connection to a listening device for ge		A	1
	use, the unweighted r.m.s. output voltage sh		Nº X	5
	\leq 15 mV (analogue interface) or -30 dBFS (c		2 2	
	interface) when playing the fixed "programm simulation noise" described in EN 50332-1.	e	+ 2	
0.6.3.3	RS2 limits (new)		44	
0.0.3.3	R32 mints (new)		5 8	N/A
	RS2 is a class 2 acoustic energy source that	t does	E L	24
	not exceed the following:		< 5	~
	- for equipment provided as a package (play	er with	1	
	its listening device), and with a proprietary			
	connector between the player and its listening		5	1
	device, or where the combination of player a		1	A
	listening device is known by other means su		· · · · · ·	
	setting or automatic detection, the weekly so		65	S
	exposure level, as described in EN 50332-3,		At N	
	$be \le 80 dB$ when playing the fixed "program	me	4 2	A
	simulation noise" described in EN 50332-1.	a 🙏	2	41
	 – for equipment provided with a standardized connector (for example, a 3,5 phone jack) th 			5
	allows connection to a listening device for ge		×	
	use, the unweighted r.m.s. output level, integ		24	
	over one week, as described in EN50332-3,		A E	
	be ≤ 15 mV (analogue interface) or -30 dBFS		14	1 2
	(digital interface) when playing the fixed		5	8
	"programme simulation noise" described in E	EN	1 4 5	
	50332-1.	5	4 -	
0.6.4	Requirements for maximum sound expos	sure		Р
0.6.4.1	Measurement methods		2	P
			5 4	
	All volume controls shall be turned to maxim	um	1 5	
	during tests.		65	
			A S	15
	Measurements shall be made in accordance	e with	X <	N
0.6.4.2	EN 50332-1 or EN 50332-2 as applicable. Protection of persons			
0.0.7.2	Except as given below, protection requireme	ents for	E E	Р
	parts accessible to ordinary persons, inst		A T	
	persons and skilled persons are given in 4			t
			5 7	14
	NOTE 1 Volume control is not considered a safeguard	· 1	- L-	2
	Between RS2 and an ordinary person , the	hasic		
	safeguard may be replaced by an instruction		A S	
	safeguard in accordance with Clause F.5, e		× ×	15
	that the instructional safeguard shall be pl			~
	on the equipment, or on the packaging, or in			~
	and a second sec			
	instruction manual.		A	

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Clause	Requirement + Test	Result - Remark	Verdict
>	given through the equipment display during use.		
		15 4	6
	The elements of the instructional safeguard shall		OF N
	be as follows:	1 2 1	8 4
		41	~
	- element 1a: the symbol , IEC 60417-6044	1 5	
	(2011-01)	4	
	– element 2: "High sound pressure" or equivalent	14	X S
	wording	2	4
	- element 3: "Hearing damage risk" or equivalent	1 2 2	
	wording	44	
	– element 4: "Do not listen at high volume levels for	or 🥂 🛸	A
	long periods." or equivalent wording	A	1 4
	×	~	5 5
	An equipment safeguard shall prevent exposure	.L	
	of an ordinary person to an RS2 source without	15 R	
	intentional physical action from the ordinary	6 8	
	person and shall automatically return to an output level not exceeding what is specified for an RS1	A V	45
	source when the power is switched off.	A	S
	source when the power is switched on.		~ ~
	The equipment shall provide a means to actively	at at	
	inform the user of the increased sound level when		at -
	the equipment is operated with an output	4 5	41
	exceeding RS1. Any means used shall be		5
	acknowledged by the user before activating a	A	
	mode of operation which allows for an output	41	
	exceeding RS1. The acknowledgement does not	t S	
	need to be repeated more than once every 20 h of		1 3
	cumulative listening time.	- 5	A
	NOTE 2 Examples of means include visual or audible signals.	X	5
	Action from the user is always needed.	24	
	X Z	L 8	
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal	15	L 5
	music player has been switched off.	E.	15
		V	
	A skilled person shall not be unintentionally	* ~	
100F	exposed to RS3.	X X	N1/0
10.6.5	Requirements for dose-based systems	× 2	N/A
10.6.5.1	General requirements	2	N/A
	Personal music players shall give the warnings as		S
	provided below when tested according to EN	15 5	
	50332-3, using the limits from this clause.		A
		1 2	241
	The manufacturer may offer optional settings to	A	5
	allow the users to modify when and how they wish		
	to receive the notifications and warnings to promot		
	a better user experience without defeating the	24 2	A
	safeguards. This allows the users to be informed in		24
	a method that best meets their physical capabilitie	S	~
	a method that best meets their physical capabilitie and device usage needs. If such optional settings are offered, an administrator (for example, parenta	t	~

Clause	Requirement + Test	Result - Remark	Verdict
	restrictions, business/educational administrators,		1
	etc.) shall be able to lock any optional settings into	A LE	1
	a specific configuration.	1 1 E	NT N
		2 T L A	2
	The personal music player shall be supplied with	1 2 2	
	easy to understand explanation to the user of the	6	
	dose management system, the risks involved, and	1 7	4
	how to use the system safely. The user shall be	AT I	- 5
	made aware that other sources may significantly	5 17	<
	contribute to their sound exposure, for example	V 1 8	
	work, transportation, concerts, clubs, cinema, car	イト	
	races, etc.		
0.6.5.2	Dose-based warning and requirements	8 8	N/A
	When a data of 100 % CCD is reached, and at	E k	- E
	When a dose of 100 % <i>CSD</i> is reached, and at	41	~
	least at every 100 % further increase of <i>CSD</i> , the	X X	
	device shall warn the user and require an	14	
	acknowledgement. In case the user does not	4 8	A
	acknowledge, the output level shall automatically	47	41
	decrease to compliance with class RS1.	1	5
	The warning shall at least clearly indicate that		
	listening above 100 % CSD leads to the risk of	A S	
	hearing damage or loss.	14 5	A
0.6.5.3	Exposure-based requirements	~ ~	N/A
8	1 3 8		
	With only dose-based requirements, cause and	15	
	effect could be far separated in time, defying the		
	purpose of educating users about safe listening	* ?	1
	practice. In addition to dose-based requirements, a	44	1 2
	PMP shall therefore also put a limit to the short-	5	4
	term sound level a user can listen at.	1 1 3	
	K X S	4	
	The exposure-based limiter (EL) shall automatically	5	4
	reduce the sound level not to exceed 100 dB(A) or	15	C
	150 mV integrated over the past 180 s, based on	K A	
	methodology defined in EN 50332-3.	2 24	
	The EL settling time (time from starting level	L 2	
	reduction to reaching target output) shall be 10 s or		
	faster.	15 5	15
		5 5 1	8
	Test of EL functionality is conducted according to	< D	<
	EN 50332-3, using the limits from this clause. For		
	equipment provided as a package (player with its	AT T	
	listening device), the level integrated over 180 s		A
	shall be 100 dB or lower. For equipment provided	4 2	41
	with a standardized connector, the unweighted leve		5
	integrated over 180 s shall be no more than 150 m	1	
	for an analogue interface and no more than -10	+ 14	
	dBFS for a digital interface.	41 2	A
	NOTE In case the source is known not to be music (or test	2 2 1	47
X	signal), the EL may be disabled.		S
0.6.6	Requirements for listening devices (headphones		N/A

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	IEC62368_1E - ATTA	CHMENT	188
Clause	Requirement + Test	Result - Remark	Verdict
10.6.6.1	Corded listening devices with analogue inp	ut 🔬 🖉	N/A
	With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and soun settings in the listening device (for example, bu volume level control, additional sound features equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation"	d ilt-in like	The All And
	noise" as described in EN 50332-1 shall be ≥ 7 mV.	5	A
	NOTE The values of 94 dB and 75 mV correspond with 85 and 27 mV or 100 dB and 150 mV.	dB	XE
10.6.6.2	Corded listening devices with digital input	1 L	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settin the listening device (for example, built-in volum level control, additional sound features like		AN
tern	equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq, \tau}$ acoustic output of the listenin device shall be \leq 100 dB with an input signal of dBFS.	g 🦟 💫 🧢	they .
10.6.6.3	Cordless listening devices In cordless mode, – with any playing and transmitting device play the fixed programme simulation noise describe EN 50332-1; and – respecting the cordless transmission standar where an air interface standard exists that spec the equivalent acoustic level; and	d in ds,	N/A
	- with volume and sound settings in the receiving device (for example, built-in volume level contra- additional sound features like equalization, etc. to the combination of positions that maximize the measured acoustic output for the above mention programme simulation noise, the $LAeq, \tau acousticoutput of the listening device shall be \leq 100 \text{ dB}an input signal of -10 dBFS.$	ol,) set ne oned ic	And the test
10.6.6.4	Measurement method Measurements shall be made in accordance w EN 50332-2 as applicable.	ith	N/A
3	Modification to the whole document		N/A

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lause	R	equirement -	+ Test	4	5	Result - Rem	nark	Verdict
at-	D		"country" note	es in the refe	erence docum	ient according	to the following	N/A
	\$	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	2
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	4	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	4
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	t-	Table 13						A
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	5
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	A.
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	t
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	5
		Y.4.5	Note					
				-		112		
		odification						Р
	N		ving note: e of certain subst pent is restricted v					Р

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Clause	Requirement + Test	15	Result - Remark	Verdict
5	Modification to 4.Z1			N/A
4.Z1	Add the following new subclause a To protect against excessive curre and earth faults in circuits connecter mains, protective devices shall be as integral parts of the equipment of building installation, subject to the and c): a) except as detailed in b) and c), p devices necessary to comply with to of B.3.1 and B.4 shall be included equipment; b) for components in series with the the equipment such as the supply coupler, r.f.i. filter and switch, short fault protection may be provided by devices in the building installation; c) it is permitted for pluggable equip dedicated overcurrent and short-cir the building installation, provided the protection, e.g. fuses or circuit breat specified in the installation instruction installation, the installation instruction the building installation instruction the building installation instruction installation, the installation instruction the building installation shall be rego providing protection in accordance the wall socket outlet.	ent, short-circuits ed to an a.c. included either or as parts of the following, a), b) protective the requirements as parts of the e mains input to cord, appliance t-circuit and earth y protective uipment type B oment , to rely on rcuit protection in hat the means of akers, is fully ions. n the building ions shall so quipment type A garded as	to the top the	N/A
6	Modification to 5.4.2.3.2.4			N/A
5.4.2.3.2.4	Add the following to the end of this The requirement for interconnectio circuit is in addition given in EN 50	on with external	N N	N/A
7	Modification to 10.2.1			N/A
10.2.1	Add the following to ^{c)} and ^{d)} in tabl		AT A	N/A

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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 paragr	aph:	N/A
	For RS 1 compliance is checked by m under the following conditions:	easurement	5
	In addition to the normal operating cor controls adjustable from the outside by any object such as a tool or a coin, an internal adjustments or pre-sets which locked in a reliable manner, are adjust give maximum radiation whilst maintai intelligible picture for 1 h, at the end of measurement is made.	y hand, by d those are not ted so as to ining an	to to to
	NOTE Z1 Soldered joints and paint lockings are adequate locking.	examples of	
	The dose-rate is determined by means radiation monitor with an effective area any point 10 cm from the outer surface apparatus.	a of 10 cm², at	the state
	Moreover, the measurement shall be r fault conditions causing an increase of voltage, provided an intelligible picture maintained for 1 h, at the end of which measurement is made.	f the high	A. A
	For RS1, the dose-rate shall not exceed taking account of the background level		ALAN N
	NOTE Z2 These values appear in Directive 96/2 May 1996.	29/Euratom of 13	
)	Modification to G.7.1		N/A
6.7.1	Add the following note: NOTE Z1 The harmonized code designations co the IEC cord types are given in Annex ZD.	orresponding to	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10	Modification to Bibliography		N/A
×	Add the following notes for the stan	idards indicated:	N/A
	4 . 2		~ <
	IEC 60130-9 NOTE Harmo	nized as EN 60130-9.	
	IEC 60269-2 NOTE Harmo	nized as HD 60269-2.	
	IEC 60309-1 NOTE Harmo	nized as EN 60309-1.	
	IEC 60364 NOTE some p	parts harmonized in HD 384/HD 60364 series.	F 5
	IEC 60601-2-4 NOTE Harmo	nized as EN 60601-2-4.	1
	IEC 60664-5 NOTE Harmo	nized as EN 60664-5.	
		nized as EN 61032:1998 (not modified).	
		nized as EN 61508-1.	
	IEC 61558-2-1 NOTE Harmo	nized as EN 61558-2-1.	45
		nized as EN 61558-2-4.	- 8
		nized as EN 61558-2-6.	2
		nized as EN 61643-1.	
		nized as EN 61643-21.	
		mized as EN 61643-311.	1
		nized as EN 61643-321.	14
		mized as EN 61643-331.	5
11	ADDITION OF ANNEXES		N/A
ZB 🏑	ANNEX ZB, SPECIAL NATIONAL		N/A
4.1.15	Denmark, Finland, Norway and Sv	weden	N/A
		A T	
	To the end of the subclause the follo		
	Class I pluggable equipment type connection to other equipment or a		4
	network shall, if safety relies on con		15 5
	reliable earthing or if surge suppress		8
	are connected between the network		2
		tating that the	
	accessible parts, have a marking s		4
	accessible parts, have a marking s equipment shall be connected to an		+ \$
	accessible parts, have a marking s		* *
	accessible parts, have a marking s equipment shall be connected to an	n earthed mains	8
	accessible parts, have a marking s equipment shall be connected to an socket-outlet.	n earthed mains	* *
	accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows:	countries shall be	* *
	accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl	countries shall be	* *
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop si stikkontakt med jord som giver forbi 	countries shall be	t the
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl stikkontakt med jord som giver forbi stikproppens jord." 	n earthed mains countries shall be kal tilsluttes en indelse til	the the
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl stikkontakt med jord som giver forbi stikproppens jord." In Finland: "Laite on liitettävä suoja 	n earthed mains countries shall be kal tilsluttes en indelse til	t we
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl stikkontakt med jord som giver forbi stikproppens jord." In Finland: "Laite on liitettävä suoja varustettuun pistorasiaan" 	countries shall be kal tilsluttes en indelse til	t the
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl stikkontakt med jord som giver forbi stikproppens jord." In Finland: "Laite on liitettävä suoja varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples 	countries shall be kal tilsluttes en indelse til	to the to
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl stikkontakt med jord som giver forbi stikproppens jord." In Finland: "Laite on liitettävä suoja varustettuun pistorasiaan" 	countries shall be kal tilsluttes en indelse til	to the tot
	 accessible parts, have a marking s equipment shall be connected to an socket-outlet. The marking text in the applicable c as follows: In Denmark: "Apparatets stikprop sl stikkontakt med jord som giver forbi stikproppens jord." In Finland: "Laite on liitettävä suoja varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples 	n earthed mains countries shall be skal tilsluttes en indelse til skoskettimilla jordet	What was a

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Clause	Requirement + Test	Result - Remark	Verdict
	United Kingdom		N1/A
4.7.3		to the	N/A
	To the end of the subclause the following is added:	5 FL K	at star
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	to the state	A
5.2.2.2	Denmark	5 4	N/A
	After the 2nd paragraph add the following:	1 1 5	
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	the second	The second
5.4.11.1	Finland and Sweden	+ 5	N/A
and		19 5	
Annex G	To the end of the subclause the following is added:	4 8	A
	For separation of the telecommunication network from earth the following is applicable:	, AT	L'A
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	AN AN AN	the s
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or 	1ª	
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	AT A S	to at
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the	to the second	K
	insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with	A A A	
	the compliance clause below and in addition	5 5	45
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	the state	t
	and	5 3	5
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 	AT AN	to a
2ª	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	L.	Sa.

	IEC62368_1E - ATTACHME	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Clause	Requirement + Test	Result - Remark	Verdict
the second	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	the state of the	E ALA
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	state to the state	A
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	the see to	AL.
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	the second	
5.5.2.1	Norway	5 5	N/A
	After the 3rd paragraph the following is added:	to the	2
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	ALL ST	1ª
5.5.6	Finland, Norway and Sweden	t	N/A
	To the end of the subclause the following is added:		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	the to be	5 ×
5.6.1	Denmark	+ +	N/A
	Add to the end of the subclause 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	to store and	N A
	equipment type A shall be an integral part of the equipment. Justification:	S A	5
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	to a	-
5.6.4.2.1	Ireland and United Kingdom	5 3	N/A
the second	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	the state	A to

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.4.2.1	France	to to	N/A
	After the indent for pluggable equipment type A , the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	A LEW AND A	M.
5.6.5.1	To the second paragraph the following is added:	A A	N/A
	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 ² to 1,5 mm ² in cross-sectional area.	A A AN	t
5.6.8 💉	Norway	e t	N/A
	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	+ the the	THE A
5.7.6	Denmark	L.	N/A
	To the end of the subclause the following is added:	the st	to
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	T IT	5
5.7.6.2	Denmark	1 5	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.	ALL ALL	t V
5.7.7.1	Norway and Sweden	4 2	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. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	the states	WIE A
	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.	to the state	A.
	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:	AL AN	A. A.
	"Apparatus connected to the protective earthing of	4	

Clause	Requirement + Test	Result - Remark	Verdict
t i	the building installation through the main connection or through other apparatus connection to protective earthing – and to a television distribution system us cable, may in some circumstances creat hazard. Connection to a television distri- system therefore has to be provided the device providing electrical isolation below frequency range (galvanic isolator, see	with a using coaxial ate a fire ibution rough a pw a certain	Nor With
	11)" NOTE In Norway, due to regulation for CATV-ins Sweden, a galvanic isolator shall provide electric below 5 MHz. The insulation shall withstand a die of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	al insulation	t Et
	Translation to Norwegian (the Swedish be accepted in Norway):	text will also	4
	"Apparater som er koplet til beskyttelse nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling apparater til kabel-TV nett installeres er galvanisk isolator mellom apparatet og	g av	ter we
The My	nettet." Translation to Swedish: "Apparater som är kopplad till skyddsjo vägguttag och/eller via annan utrustnin samtidigt är kopplad till kabel-TV nät ka medfőra risk főr brand. Főr att undvika vid anslutning av apparaten till kabel-TV galvanisk isolator finnas mellan appara kabel-TV nätet.".	rd via jordat g och an i vissa fall detta skall V nät	A A A
3.5.4.2.3	United Kingdom Add the following after the 2 nd dash bul paragraph:	let in 3 rd	N/A
	An emergency stop system complying requirements of IEC 60204-1 and ISO required where there is a risk of person	13850 is	AT A

Clause	Requirement + Test	Result - Remark	Verdict
B.3.1 and B.4	Ireland and United Kingdom The following is applicable:	to be	N/A
	To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are		t was t
	met 🚽 🥂	8 1	
G.4.2	Denmark	- A	N/A
	To the end of the subclause the following is added:	to a	
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	t t t	A.
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	And the set	stat - s
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	to the second	AT AN
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	to the state	de la
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	to the state	F - 5
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1- 5a or DK 1-7a	to the state	A
	Justification:	N S	15 5
	Heavy Current Regulations, Section 6c	7	

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Clause	Requirement + Test	Result - Remark	Verdict
8			
G.4.2	United Kingdom	A G	N/A
	To the end of the subclause the following is added:	14 E	15 24
			5
	The plug part of direct plug-in equipment shall be	A 2	
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9,	2	
	12.11, 12.12, 12.13, 12.16, and 12.17, except that	A	4
	the test of 12.17 is performed at not less than	No. A	
	125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the	\geq \sim	
	requirements of clauses 22.2 and 23 also apply.	4 2	
G.7.1	United Kingdom	+ 5	N/A
		14 5	6
	To the first paragraph the following is added:	E X	15
	Equipment which is fitted with a flexible cable or		
	cord and is designed to be connected to a mains		
	socket conforming to BS 1363 by means of that	1 S	1
	flexible cable or cord shall be fitted with a 'standard	5 5	A
	plug' in accordance with the Plugs and Sockets etc.		5
	(Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those	AT I A	
	regulations.	A S	
		A A	15
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially		8
	means an approved plug conforming to BS 1363 or an approved conversion plug.	J-	5
G.7.1	Ireland	2	N/A
	To the first pergraph the following is added:	4 8	
	To the first paragraph the following is added:	41	t 2
	Apparatus which is fitted with a flexible cable or	8	Sec. 1
	cord shall be provided with a plug in accordance	1 2	
	with Statutory Instrument 525: 1997, "13 A Plugs	E	
	and Conversion Adapters for Domestic Use	* *	4
	Regulations: 1997. S.I. 525 provides for the	A A	
	recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	2	
G.7.2	Ireland and United Kingdom	1 1	N/A
	1 5 0 5	at the	
	To the first paragraph the following is added:	A 8	4
	A power supply cord with a conductor of 1,25 mm ²	S A	1
	is allowed for equipment which is rated over 10 A		
	and up to and including 13 A.	4 3	

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Clause	Requirement + Test	Result - Remark	Verdict
zc	ANNEX ZC, NATIONAL DEVIATIO	DNS (EN)	N/A
10.5.2	Germany	* 5 5	N/A
	The following requirement applies:	E E I	5
	For the operation of any cathode ra	v tube intended	
	for the display of visual images ope	rating at an	+ 8
	acceleration voltage exceeding 40 is required, or application of type	kV, authorization	1 <
	approval (Bauartzulassung) and ma	arking.	2
	Justification:	5 8 × 8	
	German ministerial decree against	ionizing radiation	15
	(Röntgenverordnung), in force since	e	5 5
	2002-07-01, implementing the Euro	opean Directive	8
	96/29/EURATOM.	5 4 5	
	NOTE Contact address:	t e	A
	Physikalisch-Technische Bundesanstalt, Bu 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://w		+ 5

Report No.: S23082504003001

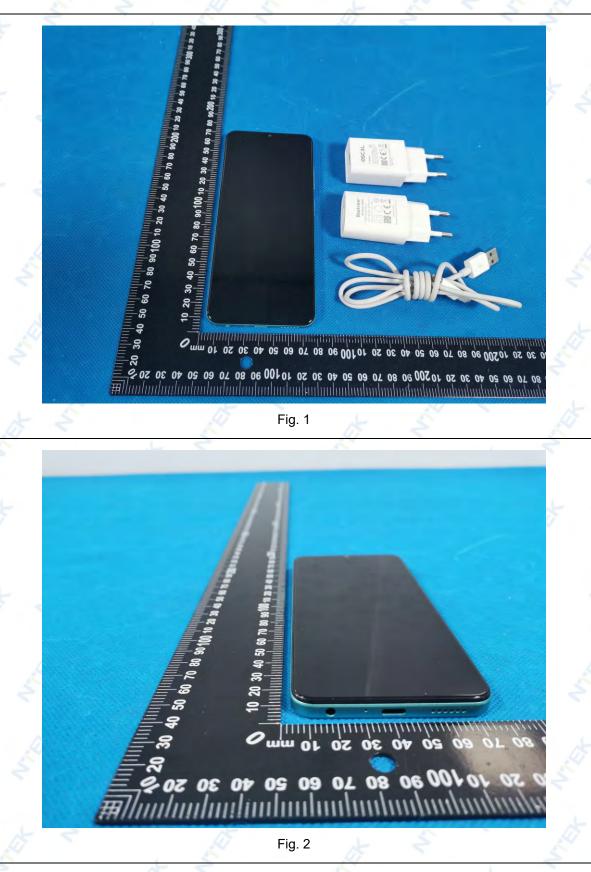
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ause	Requirement + Test	Result - R	emark	Verdict
)	IEC and CENELEC CODE DESIGNATIONS F		ORDS (EN)	N/A
	Type of flexible cord Code designations		esignations	N/A
		IEC	CENELEC	
	PVC insulated cords			
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
	Rubber insulated cords			
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility			
	Rubber insulated and sheathed cord	60245 IEC 86	HO3RR-H	
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	нозр∨4-н	
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
	Cords insulated and sheathed with halogen- free thermoplastic compounds			
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	

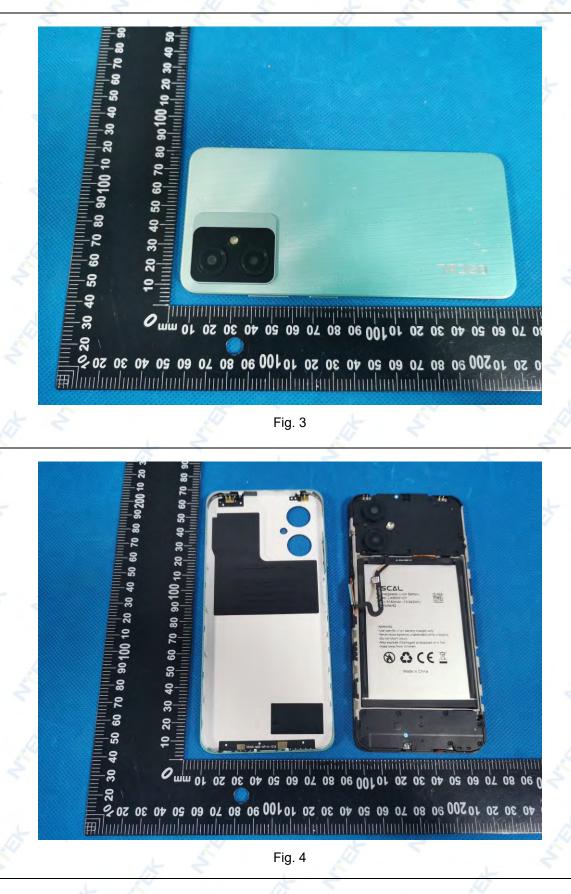
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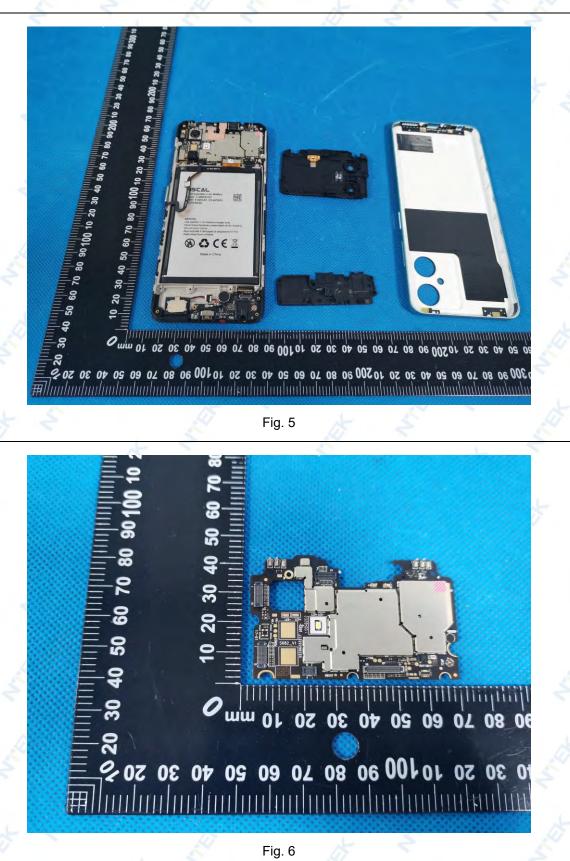
Attachment 2 Photo



Attachment 2 Photo



Attachment 2 Photo



Attachment 2 Photo

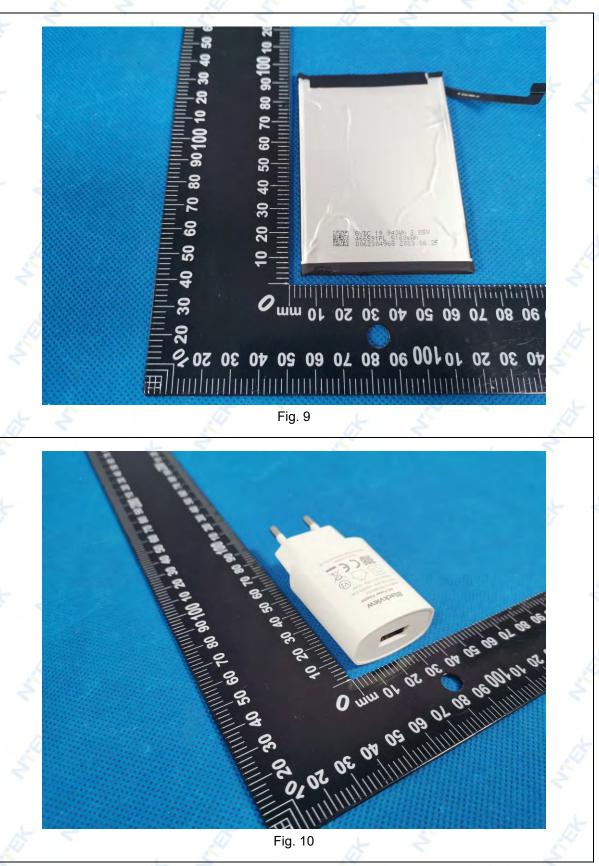
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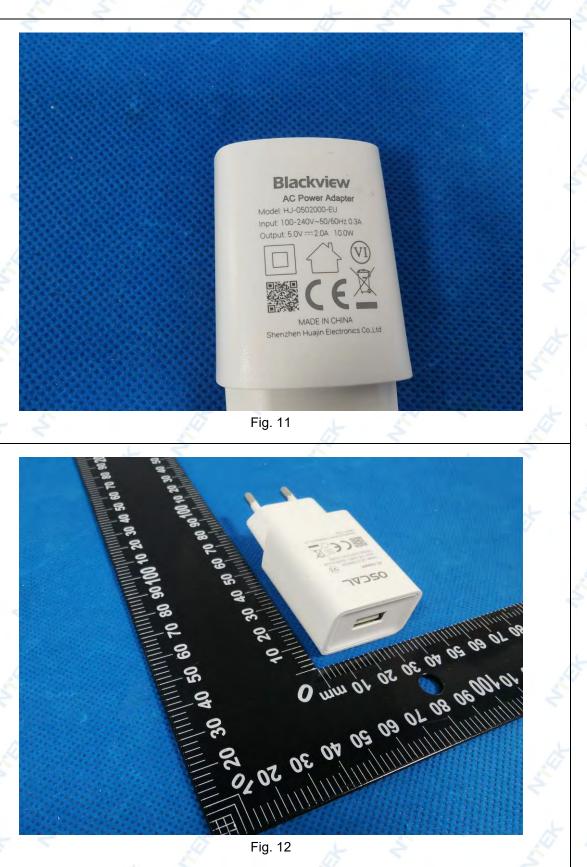
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