

# **TEST REPORT**

Report No.: \$23112302706001

Product: Tablet

Model No.: OT8, OT8 S, OT8 Pro, OT8 Ultra

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

Address: 202, Building A2, Silicon Valley Power Intelligent Terminal

Industrial Park, No. 20, Dafu Industrial Zone, Kukeng Community,

Guanlan Street, Longhua District, Shenzhen 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

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CE

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### TEST REPORT IEC 62368-1

## Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report Number:	S23112302706001	At 350
Tested by (+ signature):	Young Yin	Young Yin
	ما الم	Joung Fin Jung
Approved by (+ signature):	Henson Dong	Henson Dung
Date of issue:	2023-12-11	
Name of Testing Laboratory	Shenzhen NTEK Testing	g Technology Co., Ltd.
preparing the Report:	1&5/F, Building C, 1&2/F Community, Hangcheng Shenzhen, Guangdong,	
Applicant's name:	SHENZHEN YUNJI INT	ELLIGENT TECHNOLOGY CO.,LTD
Address:	Industrial Park, No. 20, I	i Valley Power Intelligent Terminal Dafu Industrial Zone, Kukeng Community, a District, Shenzhen China
Test specification:	4	
Standard::	☐ IEC 62368-1: 2018 (T ☐ EN IEC 62368-1:202	
Test procedure:	CE Scheme	
Non-standard test method::	N/A	
TRF template used:	IECEE OD-2020-F1:202	1, Ed.1.4
Test Report Form No:	IEC62368_1E	
Test Report Form(s) Originator:	UL(US)	
Master TRF:	Dated 2022-04-14	
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Test item description:	Tablet	
Trade Mark:	N/A	
Manufacturer:		TELLIGENT TECHNOLOGY CO.,LTD
	Industrial Park, No. 20,	on Valley Power Intelligent Terminal  Dafu Industrial Zone, Kukeng Community, ua District, Shenzhen China
Model/Type reference:	OT8, OT8 S, OT8 Pro,	OT8 Ultra
Ratings:	Input: 12V===1.67A Capacity of Battery: 3.8	3V, 8800mAh, 33.44Wh
× 3		



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

Attachment 1: 21 pages (National deviation)

Attachment 2: 5 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

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

#### **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

#### 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.



#### 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.



Test item particulars:	
Product group:	☐ end product ☐ built-in component
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☑ Instructed person</li><li>☑ Skilled person</li></ul>
Supply connection:	☐ AC mains ☐ DC mains ☐ Dc mains
Supply tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ + %/ - %
Supply connection – type:	<ul> <li>None</li> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> </ul>
	☐ direct plug-in ☐ pluggable equipment type B - ☐ non-detachable supply cord ☐ appliance coupler
at what which will	<ul> <li>□ permanent connection</li> <li>□ mating connector</li> <li>□ other: Not directly connected to mains</li> </ul>
Considered current rating of protective device:	☐ A.  Location: ☐ building ☐ equipment ☐ N/A
Equipment mobility:	☐ movable       ☐ hand-held       ☐ transportable         ☐ direct plug-in       ☐ stationary       ☐ for building-in         ☐ wall/ceiling-mounted       ☐ SRME/rack-mounted
Overvoltage category (OVC):	☐ other: ☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV
Class of equipment:	
Special installation location  Pollution degree (PD)	<ul><li>N/A  □ restricted access area</li><li>□ outdoor location □</li><li>□ PD 1  □ PD 3</li></ul>
Manufacturer's specified T <sub>ma</sub> :	40°C ☐ Outdoor: minimum °C
IP protection class:	☑ IPX0 ☐ IP_
Power systems:	☐ TN ☐ TT ☐ IT - V <sub>L-L</sub> ☐ not AC mains
Altitude during operation (m)	
Altitude of test laboratory (m)	



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 2023-11-28		
Date (s) of performance of tests 2023-11-28 to 2023-12-05	<u> </u>	
General remarks:	. 4	
"(See Enclosure #)" refers to additional information appended to the report.	7 3	
"(See appended table)" refers to a table appended to the report.		
Throughout this report a $\square$ comma / $\boxtimes$ point is used as the decimal separator.		
When differences exist; they shall be identified in the General product information s	ection.	
Name and address of factory (ies): N/A	4,	
General product information and other remarks:		
The product is Tablet		
2. Manufacturer's specified maxium operating ambient: 40°C		
Model Differences –		
Only the model name is different, the rest are the same		
	at-	



Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All circuits	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S
PS2: (All circuits)	PCB	N/A	V-0	N/A
PS2: Battery cell	Enclosure	N/A	N/A	Metal
7	Injury caused by hazardous su	bstances		
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: LED	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A



#### **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

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

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



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS	47	Р
<del>-</del> 4.1.1	Acceptance of materials, components and	(See appended Table 4.1.2.)	Р
7-1.1	subassemblies	(Oce appended Table 4.1.2.)	الح ا
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)	THE THE THE	N/A
4.1.5	Constructions and components not specifically covered	4	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts used.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	Р
4.4.3.1	General		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		N/A
4.4.3.6	Glass impact tests	7	N/A
4.4.3.7	Glass fixation tests	*	N/A
	Glass impact test (1J)	* 3	N/A
4	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	Р
4.4.4	Displacement of a safeguard by an insulating liquid	4 40	N/A
4.4.5	Safety interlocks	, A + A	N/A
4.5	Explosion	A 2	Р
4.5.1	General		Ρ
4.5.2	No explosion during normal/abnormal operating condition	x x = =100	P



	IEC 62368-1	. C Z	
Clause	Requirement + Test	Result - Remark	Verdict
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		Р
	Fix conductors not to defeat a safeguard		P
	Compliance is checked by test:		Р
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	Not such equipment.	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General	Coin battery fixed in place.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test	10 4 4	N/A
4.8.4.2	Stress relief test	4	N/A
4.8.4.3	Battery replacement test	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	N/A
4.8.4.4	Drop test	4 4 5	N/A
4.8.4.5	Impact test	7, 4,	N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe	L .	N/A
	20N force test with test hook	4 Y	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sour	ces	Р
5.2.2	ES1, ES2 and ES3 limits		Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	4	N/A
5.2.2.4	Single pulse limits	<u>۸</u> ـ ۲	N/A
5.2.2.5	Limits for repetitive pulses	L (4)	N/A
5.2.2.6	Ringing signals	A .	N/A
5.2.2.7	Audio signals	7	N/A
5.3	Protection against electrical energy sources	* * *	N/A



		IEC 62368-1		1
Clause	Requirement + Test		Result - Remark	Verdict
5.3.1	General Requirements for access ordinary, instructed and skilled pe		Only ES1 circuit generated and accessible in this equipment	N/A
5.3.1 a)	Accessible ES1/ES2 derived from	n ES2/ES3 circuits	, L	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A	
5.3.2.1	Accessibility to electrical energy s safeguards	sources and	3	N/A
	Accessibility to outdoor equipmen	nt bare parts	4 6	N/A
5.3.2.2	Contact requirements	<b>*</b>	40 7	N/A
40	Test with test probe from Annex \	<b>/</b>	7	_
5.3.2.2 a)	Air gap – electric strength test pot	tential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm)	:		N/A
5.3.2.3	Compliance		3	N/A
5.3.2.4	Terminals for connecting stripped	l wire	*	N/A
5.4	Insulation materials and require	ements		Р
5.4.1.2	Properties of insulating material	, <b>L</b>	160 St. 4	Р
5.4.1.3	Material is non-hygroscopic			N/A
5.4.1.4	Maximum operating temperature materials			Р
5.4.1.5	Pollution degrees	:	+ 10	N/A
5.4.1.5.2	Test for pollution degree 1 enviror insulating compound	nment and for an	* * * * * * * * * * * * * * * * * * *	N/A
5.4.1.5.3	Thermal cycling test			N/A
5.4.1.6	Insulation in transformers with var	rying dimensions	7	N/A
5.4.1.7	Insulation in circuits generating st	tarting pulses		N/A
5.4.1.8	Determination of working voltage	· · · · · · · · · · · · · · · · · · ·	A 25	N/A
5.4.1.9	Insulating surfaces	<b>*</b>		N/A
5.4.1.10	Thermoplastic parts on which con parts are directly mounted	nductive metallic		N/A
5.4.1.10.2	Vicat test		4 3	N/A
5.4.1.10.3	Ball pressure test			N/A
5.4.2	Clearances	_		N/A
5.4.2.1	General requirements		- CT	N/A
	Clearances in circuits connected Alternative method	to AC Mains,	3. C. S.	N/A
5.4.2.2	Procedure 1 for determining clear	rance		N/A
	Temporary overvoltage	:	4 4	



<u> </u>	76. <del>5</del> .	IEC 62368-1	7	
Clause	Requirement + Test		Result - Remark	Verdict
5.4.2.3	Procedure 2 for determining cleara	ance	* 3	N/A
5.4.2.3.2.2	a.c. mains transient voltage	:		
5.4.2.3.2.3	d.c. mains transient voltage	<u></u>		_
5.4.2.3.2.4	External circuit transient voltage:			
5.4.2.3.2.5	Transient voltage determined by m	neasurement:		
5.4.2.4	Determining the adequacy of a cle electric strength test		4	N/A
5.4.2.5	Multiplication factors for clearance	_	AUT SAUT	N/A
5.4.2.6	Clearance measurement	:	7	N/A
5.4.3	Creepage distances		*	N/A
5.4.3.1	General		A 300 A	N/A
5.4.3.3	Material group	:	No.	_
5.4.3.4	Creepage distances measurement	t:		N/A
5.4.4	Solid insulation		· * *	N/A
5.4.4.1	General requirements	4		N/A
5.4.4.2	Minimum distance through insulation	on:		N/A
5.4.4.3	Insulating compound forming solid	l insulation		N/A
5.4.4.4	Solid insulation in semiconductor of	devices	4	N/A
5.4.4.5	Insulating compound forming ceme	ented joints		N/A
5.4.4.6	Thin sheet material			N/A
5.4.4.6.1	General requirements			N/A
5.4.4.6.2	Separable thin sheet material		4	N/A
10	Number of layers (pcs)		<u>, L</u>	N/A
5.4.4.6.3	Non-separable thin sheet materia		L X	N/A
	Number of layers (pcs)		70 6	N/A
5.4.4.6.4	Standard test procedure for non-s sheet material		*	N/A
5.4.4.6.5	Mandrel test		,L ,K	N/A
5.4.4.7	Solid insulation in wound compone	ents	70 -	N/A
5.4.4.9	Solid insulation at frequencies >30 $V_{PW}$ (V)			N/A
	Alternative by electric strength tes (V), K <sub>R</sub>	_	d 200 1	N/A
5.4.5	Antenna terminal insulation	<u> </u>		N/A
5.4.5.1	General	35		N/A
5.4.5.2	Voltage surge test		4 4	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.5.3	Insulation resistance (M ):	* 3.00	N/A
+ 4	Electric strength test:	- <	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	*	N/A
5.4.7	Tests for semiconductor components and for cemented joints	- 10t AT	N/A
5.4.8	Humidity conditioning	7	N/A
	Relative humidity (%), temperature (°C), duration (h)	of of	_
5.4.9	Electric strength test	7, 4	N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits	7/0 4 4	N/A
5.4.10.1	Parts and circuits separated from external circuits	.1	N/A
5.4.10.2	Test methods	L L (1)	N/A
5.4.10.2.1	General	10 10 A	N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	+ 10	N/A
5.4.11	Separation between external circuits and earth	4	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements	7	N/A
4	SPDs bridge separation between external circuit and earth	4 10	N/A
	Rated operating voltage U <sub>op</sub> (V):	10 F	
4	Nominal voltage U <sub>peak</sub> (V)	4	
3	Max increase due to variation U <sub>sp</sub> :		
	Max increase due to ageing U <sub>sa</sub> :	W 4	
5.4.11.3	Test method and compliance:	4	N/A
5.4.12	Insulating liquid	م. ا	N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid:	2	N/A
5.4.12.4	Container for insulating liquid:	1 1 1 N	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5	Components as safeguards	* 3	N/A
5.5.1	General	- (**	N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	- 1/0, 4	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers	4	N/A
5.5.5	Relays	10 7	N/A
5.5.6	Resistors		N/A
5.5.7	SPDs		N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA)		
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	5, 4	N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation	4 7	N/A
5.6.3	Requirement for protective earthing conductors	F %	N/A
	Protective earthing conductor size (mm²)	7	
	Protective earthing conductor serving as a reinforced safeguard		N/A
, C	Protective earthing conductor serving as a double safeguard	*	N/A
5.6.4	Requirements for protective bonding conductors	4 (**	N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm²)		
5.6.4.2	Protective current rating (A)		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	4	N/A
	Terminal size for connecting protective bonding conductors (mm)	4 (A)	N/A
5.6.5.2	Corrosion	160	N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements	4 4 5	N/A



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Clause	Requirement + Test	14 A	Result - Remark	Verdict
5.6.6.2	Test Method	:	4 30	N/A
5.6.6.3	Resistance ( ) or voltage dro	op		N/A
5.6.7	Reliable connection of a prote conductor	ective earthing	*	N/A
5.6.8	Functional earthing	6	A 300	N/A
	Conductor size (mm²)		3	N/A
	Class II with functional earthin	ng marking:		N/A
	Appliance inlet cl & cr (mm)	:	A	N/A
5.7	Prospective touch voltage,	touch current and protec	ctive conductor current	N/A
5.7.2	Measuring devices and netwo	orks		N/A
5.7.2.1	Measurement of touch current	t		N/A
5.7.2.2	Measurement of voltage		CT 25	N/A
5.7.3	Equipment set-up, supply con connections	nections and earth		N/A
5.7.4	Unearthed accessible parts	:	, ,,	N/A
5.7.5	Earthed accessible conductive	e parts:		N/A
5.7.6	Requirements when touch cur limits	rrent exceeds ES2	.0	N/A
	Protective conductor current (	mA):		N/A
	Instructional Safeguard	:		N/A
5.7.7	Prospective touch voltage and associated with external circuit		4	N/A
5.7.7.1	Touch current from coaxial ca	bles	10 A	N/A
5.7.7.2	Prospective touch voltage and associated with paired conduction	d touch current ctor cables	4	N/A
5.7.8	Summation of touch currents	from external circuits		N/A
	a) Equipment connected to eacircuits, current (mA)		7,00	N/A
210	b) Equipment connected to un circuits, current (mA)			N/A
5.8	Backfeed safeguard in batte	ery backed up supplies	4 2	N/A
1	Mains terminal ES	:		N/A
.0	Air gap (mm)			N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		L 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	Verdict
6.2.3.1	Arcing PIS:	4 3	N/A
6.2.3.2	Resistive PIS:	All conductors and devices are considered as Resistive PIS.	Р
6.3	Safeguards against fire under normal operating a 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)	P
	Combustible materials outside fire enclosure:	4 .6	N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method of Control fire spread used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	10t 45th 45th	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	5	Р
3.4.3.1	Supplementary safeguards		Р
5.4.3.2	Single Fault Conditions:	(See appended table B.3, B.4)	Р
, ·	Special conditions for temperature limited by fuse	7 7	N/A
5.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	See below.	Р
6.4.5.2	Supplementary safeguards	Compliance detailed as	Р
Ariet Ariet	Ariest Ar	follows:  - Printed board: rated min. V-1 class material;  - All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g).  - The internal wires ware complied to UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21 -PCB complay with V-0	
6.4.6	Control of fire spread in PS3 circuits		N/A
6.4.7	Separation of combustible materials from a PIS		N/A
3.4.7.2	Separation by distance	<u> </u>	N/A
6.4.7.3	Separation by a fire barrier	4 3	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		Р
6.4.8.2.1	Requirements for a fire barrier	* * 5	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.2.2	Requirements for a fire enclosure	Fire Enclosure: metal	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	- 41,0	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	*	N/A
6.4.8.3.2	Fire barrier dimensions	* 3	N/A
6.4.8.3.3	Top openings and properties		N/A
3	Openings dimensions (mm)		N/A
6.4.8.3.4	Bottom openings and properties	4 .0	N/A
.1	Openings dimensions (mm)	4 4	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
4	Instructional Safeguard		N/A
6.4.8.3.5	Side openings and properties	1 2 3°	N/A
<b>.</b> L	Openings dimensions (mm)	5,	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:		Р
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements	L .Ø	Р
6.5.2	Requirements for interconnection to building wiring	No such interconnection to building wiring.	N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:	No socket-outlet used.	N/A
6.6	Safeguards against fire due to the connection to	additional equipment	N/A

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

8	MECHANICALLY-CAUSED INJURY	P
8.2	Mechanical energy source classifications	Р



•	, <del>(</del>	IEC 62368-1		
Clause	Requirement + Test	- 100 E	Result - Remark	Verdict
8.3	Safeguards against mechanica	l energy sources	* X	N/A
8.4	Safeguards against parts with sharp edges and corners			
8.4.1	Safeguards	* *		N/A
	Instructional Safeguard	:		N/A
8.4.2	Sharp edges or corners		Equipment mass: MS1	Р
A. C.	<u> </u>	arest Area	Accessible edges and corners of the equipment are rounded and are classified as MS1.	NOT.
8.5	Safeguards against moving par	rts		N/A
8.5.1	Fingers, jewellery, clothing, hair, of MS2 or MS3 parts	etc., contact with	No moving parts	N/A
7	MS2 or MS3 part required to be a function of the equipment	accessible for the	A 30 0	N/A
4	Moving MS3 parts only accessible	e to skilled person	3,00	N/A
8.5.2	Instructional safeguard	:		N/A
8.5.4	Special categories of equipment of parts	containing moving	A A 30	N/A
8.5.4.1	General			N/A
8.5.4.2	Equipment containing work cells	with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work	cell		N/A
8.5.4.2.2	Access protection override		+ 💯	N/A
8.5.4.2.2.1	Override system			N/A
8.5.4.2.2.2	Visual indicator	4	A 25	N/A
8.5.4.2.3	Emergency stop system		200	N/A
310	Maximum stopping distance from activation (m)		, dt	N/A
	Space between end point and nemechanical part (mm)			N/A
8.5.4.2.4	Endurance requirements		7	N/A
4	Mechanical system subjected to operation	100 000 cycles of		N/A
	- Mechanical function check and	visual inspection		N/A
	- Cable assembly			N/A
8.5.4.3	Equipment having electromechan destruction of media	ical device for	4 3/6t 4	N/A
8.5.4.3.1	Equipment safeguards		747	N/A
8.5.4.3.2	Instructional safeguards against r	moving parts:	.4	N/A
8.5.4.3.3	Disconnection from the supply	7	* * * 5	N/A



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Clause	Requirement + Test		Result - Remark	Verdict
8.5.4.3.4	Cut type and test force (N)	:	4 30	N/A
8.5.4.3.5	Compliance	/		N/A
8.5.5	High pressure lamps	F 3	No such lamps provided.	N/A
	Explosion test	:		N/A
8.5.5.3	Glass particles dimensions (mm)	:		N/A
8.6	Stability of equipment	- (	7	N/A
8.6.1	General		4 4	N/A
	Instructional safeguard	:	4 19	N/A
8.6.2	Static stability	-0	5, 4	N/A
8.6.2.2	Static stability test	:	*	N/A
8.6.2.3	Downward force test		A- 200 A	N/A
8.6.3	Relocation stability	*	140 4 4	N/A
	Wheels diameter (mm)	:	7	_
	Tilt test			N/A
8.6.4	Glass slide test	4		N/A
8.6.5	Horizontal force test	:	<del>\</del> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N/A
8.7	Equipment mounted to wall, ceiling of	or other struc	ture	N/A
8.7.1	Mount means type		4	N/A
8.7.2	Test methods	<del>*</del> .		N/A
	Test 1, additional downwards force (N).	i		N/A
	Test 2, number of attachment points and (N)			N/A
10	Test 3 Nominal diameter (mm) and app (Nm)		*	N/A
8.8	Handles strength		* 3	N/A
8.8.1	General	太	No handle	N/A
8.8.2	Handle strength test			N/A
4	Number of handles	:		
	Force applied (N)	:	<u> </u>	N/A
8.9	Wheels or casters attachment require	ements	4	N/A
8.9.2	Pull test	4	<i>ب</i>	N/A
8.10	Carts, stands and similar carriers	•	4	N/A
8.10.1	General		70 Z	N/A
8.10.2	Marking and instructions	:	7	N/A
8.10.3	Cart, stand or carrier loading test		4 4 5	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Loading force applied (N):	* 30	N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability	4	N/A
	Force applied (N):		N/A
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment (S	SRME)	N/A
8.11.1	General	, ,	N/A
8.11.2	Requirements for slide rails		N/A
<i>*</i>	Instructional Safeguard:	4, 4	N/A
8.11.3	Mechanical strength test	*	N/A
8.11.3.1	Downward force test, force (N) applied:	AL 300 A	N/A
8.11.3.2	Lateral push force test	10 C 4	N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
<del>الم</del>	Button/ball diameter (mm):	4	

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		Р
10.2.1	General classification	RS1: LED	Р
	Lasers:		_



	. Y Z	IEC 62368-1		
Clause	Requirement + Test	30 3	Result - Remark	Verdict
	Lamps and lamp systems		LCD display comply with RS1	
F /	Image projectors			_
	X-Ray			_
	Personal music player			_
10.3	Safeguards against laser ra	diation		N/A
210	The standard(s) equipment co comply		4	N/A
10.4	Safeguards against optical LED types)	radiation from lamps	and lamp systems (including	Р
10.4.1	General requirements	4	LCD display comply with RS1	Р
4	Instructional safeguard provid radiation level needs to excee			N/A
	Risk group marking and location	on:	10 4 4	N/A
大	Information for safe operation	and installation	4	N/A
10.4.2	Requirements for enclosures			N/A
	UV radiation exposure	:		N/A
10.4.3	Instructional safeguard		2, 4,	N/A
10.5	Safeguards against X-radiat	tion		N/A
10.5.1	Requirements		4	N/A
	Instructional safeguard for ski	lled persons:	T 30	_
10.5.3	Maximum radiation (pA/kg)		× ×	_
10.6	Safeguards against acousti	c energy sources	* 3,0	Р
10.6.1	General			Р
10.6.2	Classification	*		N/A
4	Acoustic output $L_{Aeq,T}$ , dB(A)			N/A
	Unweighted RMS output voltage	ge (mV):	, OT - Z'	N/A
<b>A</b>	Digital output signal (dBFS)		4,	N/A
10.6.3	Requirements for dose-based	l systems	*	N/A
10.6.3.1	General requirements	<del>/</del>	L .	N/A
10.6.3.2	Dose-based warning and auto	omatic decrease	No.	N/A
10.6.3.3	Exposure-based warning and	requirements	7	N/A
	30 s integrated exposure level	(MEL30):	* 3	N/A
	Warning for MEL ≥ 100 dB(A).	·····:	* 3	N/A
10.6.4	Measurement methods	*		N/A
10.6.5	Protection of persons	L X		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional safeguards:	1. Symbol ; 2. "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	P
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	at the	N/A
10.6.6.1	Corded listening devices with analogue input	4, 4	N/A
	Listening device input voltage (mV)	*	N/A
10.6.6.2	Corded listening devices with digital input	A 380 A	N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	16. 4	N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	, ,,	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	( ) L	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
.01	Audio Amplifiers and equipment with audio amplifiers:	4	Р
B.2.3	Supply voltage and tolerances		Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	4	P
B.3.1	General	*	Р
B.3.2	Covering of ventilation openings	A	N/A
	Instructional safeguard:		N/A
B.3.3	DC mains polarity test	7	N/A
B.3.4	Setting of voltage selector	A 2	N/A
B.3.5	Maximum load at output terminals	* 3	N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions	24	Р



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Clause	Requirement + Test	Result - Remark	Verdict
B.3.8	Safeguards functional during and after abnormal operating conditions		Р
B.4	Simulated single fault conditions	7	Р
B.4.1	General	<del>\</del>	Р
B.4.2	Temperature controlling device	* 3	N/A
B.4.3	Blocked motor test	200	N/A
B.4.4	Functional insulation	4	Р
B.4.4.1	Short circuit of clearances for functional insulation	A	P
B.4.4.2	Short circuit of creepage distances for functional insulation	4, 4	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	70 4 7	Р
B.4.6	Short circuit or disconnection of passive components		Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	(See appended table B.3, B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions		P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements	*	N/A
C.1.3	Test method	XV 5	N/A
C.2	UV light conditioning test	-	N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples	A 5	N/A
C.2.3	Carbon-arc light-exposure test	4	N/A
C.2.4	Xenon-arc light-exposure test	مد ع <sup>ا</sup>	N/A
	44		
D	TEST GENERATORS		N/A
D.1	Impulse test generators	4	N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A



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Clause	Requirement + Test		Result - Remark	Verdict

E	TEST CONDITIONS FOR EQUIPMENT CONTAININ	NG AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for audio	signals	N/A
	Maximum non-clipped output power (W)	1	_
	Rated load impedance (Ω)	1 1	
6	Open-circuit output voltage (V)	1	
	Instructional safeguard	/	
E.2	Audio amplifier normal operating conditions	A 100	Р
٨_	Audio signal source type:	1 25 7	_
	Audio output power (W)	See table 4.1.2	_
	Audio output voltage (V)	1	_
	Rated load impedance (Ω)	See table 4.1.2	
大	Requirements for temperature measurement	4	N/A
E.3	Audio amplifier abnormal operating conditions	*	N/A

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Р
F.1	General		Р
	Language:	English.	
F.2	Letter symbols and graphical symbols	*	Р /
F.2.1	Letter symbols according to IEC60027-1	7	N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	P
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	See copy of marking plate	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains	4	Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate	Р
F.3.3.4	Rated voltage:	See copy of marking plate	Р
F.3.3.5	Rated frequency		N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate	Р



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Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.7	Equipment with multiple supply connections	Only one connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	A STOP	N/A
F.3.5.2	Switch position identification marking		N/A
F.3.5.3	Replacement fuse identification and rating markings		N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:	The built-in battery is impossible for ordinary person to replaced	N/A
F.3.5.5	Neutral conductor terminal	A 2 1	N/A
F.3.5.6	Terminal marking location	3,	N/A
F.3.6	Equipment markings related to equipment classification	· ·	N/A
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal	3, 4,	N/A
F.3.6.1.2	Protective bonding conductor terminals:	, Q	N/A
F.3.6.2	Equipment class marking:	· F	N/A
F.3.6.3	Functional earthing terminal marking:	+ 🔊	N/A
F.3.7	Equipment IP rating marking:	4	N/A
F.3.8	External power supply output marking:	* 3	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		Р
	a) Information prior to installation and initial use	4	N/A
	b) Equipment for use in locations where children not likely to be present	At 3	Р
	c) Instructions for installation and interconnection	A 2	N/A
* *	d) Equipment intended for use only in restricted access area	<u> </u>	N/A
. 5	e) Equipment intended to be fastened in place	* * *	N/A



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Requirement + Test	Result - Remark	Verdict
f) Instructions for audio equipment termin	als	N/A
g) Protective earthing used as a safeguard	d	N/A
h) Protective conductor current exceeding limits	ES2	N/A
i) Graphic symbols used on equipment	* * *	N/A
j) Permanently connected equipment not with all-pole mains switch	provided	N/A
k) Replaceable components or modules p safeguard function	providing	N/A
Equipment containing insulating liquid	St 2 5	N/A
m) Installation instructions for outdoor equi	ipment	N/A
Instructional safeguards		Р
	f) Instructions for audio equipment terming g) Protective earthing used as a safeguar h) Protective conductor current exceeding limits i) Graphic symbols used on equipment j) Permanently connected equipment not with all-pole mains switch k) Replaceable components or modules pasafeguard function l) Equipment containing insulating liquid m) Installation instructions for outdoor equ	f) Instructions for audio equipment terminals g) Protective earthing used as a safeguard h) Protective conductor current exceeding ES2 limits i) Graphic symbols used on equipment j) Permanently connected equipment not provided with all-pole mains switch k) Replaceable components or modules providing safeguard function l) Equipment containing insulating liquid m) Installation instructions for outdoor equipment

G	COMPONENTS		Р
G.1	Switches	1	N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load	10 40 4	N/A
G.1.3	Test method and compliance	7	N/A
G.2	Relays		N/A
G.2.1	Requirements	*	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment	At 350	N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs		N/A
4	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	7/1/2	N/A
310	Thermal cut-outs tested as part of the equipment as indicated in c)	d.	N/A
G.3.1.2	Test method and compliance	* 7	N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	At 3	N/A
	b) Thermal links tested as part of the equipment	* 3	N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	-	N/A
G.3.4	Overcurrent protection devices	4 4 7	N/A



Clause	Requirement + Test	Result - Remark	Verdict
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	ich zie	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	4	N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors	70 A	N/A
G.4.1	Spacings	4	N/A
G.4.2	Mains connector configuration:	. *	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	7. 4. A.	N/A
G.5	Wound components	1	N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress	10 4 4 A	N/A
G.5.2	Endurance test		N/A
G.5.2.1	General test requirements	*	N/A
G.5.2.2	Heat run test	* * *	N/A
.1	Test time (days per cycle)	7, 7, 7	
Ø 5	Test temperature ( C):	.47	_
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown	. 4	N/A
G.5.3	Transformers	4 4	N/A
G.5.3.1	Compliance method:	4 (	N/A
	Position		N/A
	Method of protection		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:	C+ 2	_
G.5.3.3	Transformer overload tests	3	N/A
G.5.3.3.1	Test conditions	4	N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	4	N/A
G.5.3.4.1	General	* 3	N/A
,	FIW wire nominal diameter:	* 3	_
G.5.3.4.2	Transformers with basic insulation only	<b>*</b>	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	A Company	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance	4	N/A
G.5.3.4.6	Partial discharge test	*	N/A
G.5.3.4.7	Routine test	* 3	N/A
G.5.4	Motors		Р
G.5.4.1	General requirements		Р
G.5.4.2	Motor overload test conditions	* * *	N/A
G.5.4.3	Running overload test	47 47	N/A
G.5.4.4.2	Locked-rotor overload test		N/A
4	Test duration (days)		_
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method	.1	N/A
G.5.4.6	Locked-rotor overload test for DC motors	+	N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:	<u></u>	N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors	<u></u>	N/A
G.5.4.8	Three-phase motors	3	N/A
G.5.4.9	Series motors		N/A
	Operating voltage		_
G.6	Wire Insulation	4	N/A
G.6.1	General	*	N/A
G.6.2	Enamelled winding wire insulation	* 4	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
4	Туре		_
G.7.2	Cross sectional area (mm² or AWG)		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	4	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements	0 × ×	N/A
<b>,</b> L	Strain relief test force (N)		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	4 0 4	N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.7.3.2.4	Strain relief and cord anchorage material	4 30	N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
3,0	Overall diameter or minor overall dimension, <i>D</i> (mm)	4	_
	Radius of curvature after test (mm):		_
G.7.6	Supply wiring space	7, 4,	N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand	4	N/A
G.8	Varistors	.L	N/A
G.8.1	General requirements	* * *	N/A
G.8.2	Safeguards against fire	YO YO S	N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test	, , , , , , , , , , , , , , , , , , ,	N/A
G.9	Integrated circuit (IC) current limiters	7	N/A
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		_
٨-	Manufacturers' defined drift:	4,	_
G.9.2	Test Program	*	N/A
G.9.3	Compliance	4 (	N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test	2	N/A
G.10.5	Impulse test	.1 .4	N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	ı .L	N/A



	IEC 62368-1	7 2	Ť
Clause	Requirement + Test	Result - Remark	Verdict
G.11.3	Rules for selecting capacitors	* **	N/A
G.12	Optocouplers		N/A
4	Optocouplers comply with IEC 60747-5-5 with specifics	*	N/A
	Type test voltage V <sub>ini, a</sub> :	* 7	
4	Routine test voltage, V <sub>ini, b</sub>		
G.13	Printed boards	4	Р
G.13.1	General requirements	4 .0	Р
G.13.2	Uncoated printed boards	4	Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface	at seet of	N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs):	( L &	_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection	, 5	N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	4	N/A
G.14.1	Requirements		N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements		N/A
G.15.2	Test methods and compliance	4	N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test	L X	N/A
G.15.2.3	Tubing and fittings compatibility test	- C	N/A
G.15.2.4	Vibration test	7	N/A
G.15.2.5	Thermal cycling test	at the second se	N/A
G.15.2.6	Force test	* 3	N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	A A	N/A
G.16.1	Condition for fault tested is not required	4	N/A
	ICX with associated circuitry tested in equipment	d 2	N/A
<u>ــــــــــــــــــــــــــــــــــــ</u>	ICX tested separately		_ N/A
G.16.2	Tests	4	N/A

N/A



K.4

Interlock safeguard override

		23112302706001
01	IEC 62368-1	
Clause	Requirement + Test Result - Rema	ark Verdic
1	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	4" -
	Mains voltage that impulses to be superimposed on	
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	
G.16.3	Capacitor discharge test	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
H.1	General	N/A
H.2	Method A	N/A
H.3	Method B	N/A
H.3.1	Ringing signal	N/A
H.3.1.1	Frequency (Hz):	_
H.3.1.2	Voltage (V)	
H.3.1.3	Cadence; time (s) and voltage (V):	- A
H.3.1.4	Single fault current (mA)::	7 _
H.3.2	Tripping device and monitoring voltage	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
H.3.2.2	Tripping device	N/A
H.3.2.3	Monitoring voltage (V):	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	N/A
J.1	General	N/A
	Winding wire insulation:	
	Solid round winding wire, diameter (mm):	N/A
N.C.	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	N/A
J.2/J.3	Tests and Manufacturing	N/A
K	SAFETY INTERLOCKS	N/A
K.1	General requirements	N/A
	Instructional safeguard:	N/A
K.2	Components of safety interlock safeguard mechanism	N/A
K.3	Inadvertent change of operating mode	N/A



	IEC 623	368-1	
Clause	Requirement + Test	Result - Remark	Verdict
K.5	Fail-safe	+ 3	N/A
K.5.1	Under single fault condition	A	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance	:	N/A
K.7	Interlock circuit isolation	76 F.	N/A
K.7.1	Separation distance for contact gaps & intecircuit elements	erlock	N/A
	In circuit connected to mains, separation d for contact gaps (mm)		N/A
	In circuit isolated from mains, separation d for contact gaps (mm)		N/A
	Electric strength test before and after the te		N/A
K.7.2	Overload test, Current (A)	:	N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A

L	DISCONNECT DEVICES		N/A
L.1	General requirements	Not directly connected to the mains	N/A
L.2	Permanently connected equipment		N/A
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 THEIR PROTECTION CIRCUITS		Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		P
M.2.1	Batteries and their cells comply with relevant IEC standards		Р
M.3	Protection circuits for batteries provided within the equipment	300	P
M.3.1	Requirements		Р



	IEC 623		1
Clause	Requirement + Test	Result - Remark	Verdict
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-rechargeal battery	ple	N/A
	Reverse charging of a rechargeable batter	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance	(See appended table M.3)	Р
M.4	Additional safeguards for equipment co battery	ntaining a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Requirements	T 30 5	Р
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 second lithium battery	dary	Р
M.4.4.2	Preparation and procedure for the drop tes	t	Р
M.4.4.3	Drop, Voltage on reference and dropped by (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	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 Ni	Cd batteries	N/A
M.7.1	Ventilation preventing explosive gas conce	ntration	N/A
	Calculated hydrogen generation rate	:	N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m³/h)		N/A
M.7.3	Ventilation tests	+ 30	N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A



M.7.3.3 \	Requirement + Test  Hydrogen gas concentration (%):  Ventilation test – alternative 2	Result - Remark	Verdict
M.7.3.3		//>	<b>N1/</b>
(	Ventilation test – alternative 2		N/A
			N/A
<del></del>	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
ŀ	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A
	Protection against internal ignition from external sp with aqueous electrolyte	park sources of batteries	N/A
M.8.1	General	7.5	N/A
M.8.2 T	Test method		N/A
M.8.2.1	General	*	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):		_
M.8.2.3	Correction factors:		_
M.8.2.4 C	Calculation of distance d (mm):		_
M.9 F	Preventing electrolyte spillage	4 4 6	N/A
M.9.1 F	Protection from electrolyte spillage	/* //> * *	N/A
M.9.2 T	Tray for preventing electrolyte spillage		N/A
	Instructions to prevent reasonably foreseeable misuse		Р
I	Instructional safeguard:		Р
	, 24	<b>T</b>	
	ELECTROCHEMICAL POTENTIALS		N/A
N	Material(s) used:		_
	MEACUREMENT OF OREFRACE DIOTANGES AND	OL FADANOSO	NI/A
	MEASUREMENT OF CREEPAGE DISTANCES AND	CLEARANCES	N/A
\	Value of X (mm):		
P S	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		N/A
	General		N/A
	Safeguards against entry or consequences of entry	of a foreign	N/A
	General	<u> </u>	N/A
	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
	Safeguard requirements		N/A



	1. (a) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		00001
IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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	W 4	N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing parts	*	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T <sub>C</sub> (°C):		
	Duration (weeks):		_
		X .0> <	

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	
Q.1	Limited power sources	N/A
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	N/A
	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance:	N/A
	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	LIMITED SHORT CIRCUIT TEST	
R.1	General		N/A
R.2	Test setup		N/A
	Overcurrent protective device for test:		_
R.3	Test method		N/A



	A 2	IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
	Cord/cable used for test	:	107	
R.4	Compliance			N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
	Samples, material:	
	Wall thickness (mm):	_
	Conditioning ( C):	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning ( C):	_
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):	_
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power exceeding 4 000 W	N/A
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning ( C):	_
		_

T	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:		N/A
T.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

N/A



Y.2

Resistance to UV radiation

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
T.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
T.8	Stress relief test	: (See appended table T.8)	Р
T.9	Glass Impact Test	:	N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted	: No such glass provided.	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)	: No such antennas provided.	∟N/A
	~	4 (	
U	MECHANICAL STRENGTH OF CATHODE RA AGAINST THE EFFECTS OF IMPLOSION	Y TUBES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard :		N/A
U.2	Test method and compliance for non-intrinsi	cally 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 prob	pes	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
	4		
X	ALTERNATIVE METHOD FOR DETERMINING IN CIRCUITS CONNECTED TO AN AC MAINS (300 V RMS)		N/A
	Clearance	:	N/A
V	CONSTRUCTION DECUMENTATION FOR CUT	DOOD ENGLOSUEES	N1/A
Υ 4	CONSTRUCTION REQUIREMENTS FOR OUT	DOOR ENCLOSURES	N/A
Y.1	General		N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Y.3	Resistance to corrosion	4 K	N/A
Y.3	Resistance to corrosion	7.5	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
Y.3.5	Compliance		N/A
Y.4	Gaskets	4, 4,	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	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		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	Protection from excessive dust	4.	N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A



	4 3	IEC 62368-1	A 300	
Clause	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classificati	ABLE: Classification of electrical energy sources								
Supply Voltage	Location (e.g.	, <u> </u>		Parameters						
Voltage	designation)	Conditions	U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>				
12VDC	Input circuit	Normal	12Vrms	<del>-</del> -		42	ES1			
	4	Abnormal:	.L	Ø 2			.(_			
		Single fault:	/ - P			7				
Fully	Battery pack	Normal	1	1	<u></u>		ES1			
charged battery	output	Abnormal:	- 0	F - 3		<del>-</del>				
		Single fault:								

## Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.
- 3) SC=Short Circuit, OC=Open Circuit.

5.4.1.8	TABLE: Working voltage	ge measuremei			N/A			
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Commo	ents		
*		-		4	4'-			
Supplementary information:								
				4,	*			

5.4.1.10.2	TABLE: Vicat soft	ABLE: Vicat softening temperature of thermoplastics						N/A
Method: ISO 306 / B50							_	
Object/ Par	t No./Material	Manufacturer/trademark T			Thickness (mm)	T softeni	ng (°C)	
	4		3				<u> </u>	
Supplementary information:								
	4.			4			,L	

5.4.1.10.3	TABLE: Ball pre	ABLE: Ball pressure test of thermoplastics							
Allowed impression diameter (mm) ≤ 2 mm									
Object/Part	No./Material	(mm) Test temperature (		Impression diameter (mm					
	, ,				T.				
Supplementary information:									
		<u> </u>		.1	<b>*</b>		.L		



					Re	port No.	S23112302 <i>i</i>	06001	
	3		IEC 62	368-1	4				
Clause Requir	ement + Test				Result - F	Remark	4	Verdict	
5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance									
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)	
	- الم		3-					=	
Supplementary info	rmation:								
1) Only for frequence 2) Complete Electric	-		(V) when	5.4.2.4 appl	ied)		<b>.</b> L	NOT	

5.4.4.2 TABLE: Minimur	4.4.2 TABLE: Minimum distance through insulation									
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)					
- 4			4							
Supplementary information:										
.40				٨	_					

5.4.4.9	TABLE: Solid in	sulation at	frequencies	>30 kHz		4	N/A		
Insulation m	aterial	$E_{P}$	Frequency (kHz)	$K_{\!R}$	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)		
	<u>_</u>				- 4				
Supplement	Supplementary information:								
		ــــــــــــــــــــــــــــــــــــــ	70			.()			

5.4.9	TABLE: Electric strength tests		3	N/A
Test voltage	e applied between:	Voltage shape	Test voltage (V)	Breakdown
		(Surge, Impulse, AC, DC, etc.)		Yes / No
Functional:		*	3	
0	41	2-7		-0
Basic/suppl	ementary:			4
			\$ -4°	
Reinforced:		4		*
7	7		- 4	
Routine Tes	ets:			7
		2	2	
Supplemen	tary information:			
, <u>'</u>		4.		Z



				rtoport	140. 0201120	0270	,0001	
			IEC 62368-1					
Clause	Requirer	ment + Test		Result - Rem	Result - Remark		Verdict	
5.5.2.2	TABLE:	Stored discharge of	on capacitors	*	L		N/A	
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES	S Class	
		- 4	<u> </u>				-2"	
Supplemen	tary inforr	nation:						
	s installed g resistor	d for testing are: rating:	ALICH ALI	×		<	Ket .	
Notes:	- 4:							
A. Test Loc Phase to No		ase to Phase; Phase	to Earth; and/or Neu	tral to Earth				
B. Operatin	B. Operating condition abbreviations:							
N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition								
1				3				

5.6.6	TABLE: Resistance of protective conductors and terminations N/A								
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)				
		L x	Ø Z		<del>* - 3</del>				
Supplementary information:									
			4	人					

5.7.4	TABLE	E: Unearthed acces	5.7.4 TABLE: Unearthed accessible parts						
Location		Operating and	Supply	F	Parameters		ES		
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	class		
- 4,		- 4	7			.O	=		
Supplementary information:									
Abbreviation	n: SC= s	Abbreviation: SC= short circuit; OC= open circuit							

5.7.5	TABLE: Earthed access	TABLE: Earthed accessible conductive part				
Supply voltage (V):						
Phase(s):		[] Single Phase; [] Three	Phase: [ ] Delta	[] Wye		
Power Dist	ribution System:	[]TN []TT []IT				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current Comment (mA)		ent	
<del>/</del>		10		-<	<b>X</b>	
, 4		2*	<del>*-</del> °	- 4	太	



		IEC 62368	8-1	<del>/</del>		
irement + Te	st	,0		Result - Ren	nark	Verdict
*		3	•			
	4	4	4			-
		5		7		- 6
	.0	6				- 3
	4	8			- 3	-
	irement + Te	irement + Test	3 4 5	3 4 5	3	3

#### Supplementary Information:

- [1] Supply voltage is the anticipated maximum Touch Voltage.
- [2] Earthed neutral conductor [Voltage differences less than 1% or more].
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3.
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (\*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

5.8	TABLE:	TABLE: Backfeed safeguard in battery backed up supplies						
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
	- 4 4							
Supplement	Supplementary information:							
Abbreviation	n: SC= sh	ort circuit, O	C= open circuit				/ _	

6.2.2 TABLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class	
Battery cell	Normal	2.25	28.0	63.12	5	PS2	
Supplementar	ry information:						

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1	TABLE	TABLE: Determination of Arcing PIS						
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)					
	4	4		<i>A</i> \		<u> </u>		
Supplement	Supplementary information:							
		1	4	人				

6.2.3.2 TABLE: Det	6.2.3.2 TABLE: Determination of resistive PIS					
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS?			



	IEC 62368-1	A 3		
Clause Requirement + Tes	t	Result - Remark		Verdict
				Yes / No
Battery cell	<u> </u>	>15	4	Yes*
Supplementary information:				
Abbreviation: SC= short circuit; * All internal circuits were considerable.			KET	4

8.5.5	TABLE: High pre	ssure lamp	4, 4		N/A		
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No		
		c.t	<u> </u>				
Supplementary information:							
	J 3			- 4	7, ,		

9.6	TABLE	: Tempera	ture meas	urements	for wireles	ss power t	ransmitter	'S	N/A	
Supply volta	Supply voltage (V)::					太	4		_	
Max. transn	Max. transmit power of transmitter (W)				太				_	
			eiver and contact		with receiver and direct contact		with receiver and at distance of 2 mm		with receiver and at distance of 5 mm	
Foreign o	bjects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
						<b></b> 5		>-		
Supplement	Supplementary information:									
			4							

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements							
Supply volta	age (V):	Α	В	С		_		
Ambient ten	nperature during test $T_{amb}$ (°C):	See below	See below	See below		_		
Maximum m	neasured temperature <i>T</i> of part/at:		Allowed $T_{\text{max}}$ (°C)					
PCB near U	2100	50.3	50.1	55.5	大	130		
PCB near U	0028	54.1	51.3	52.7		130		
PCB near U	2100 bottom	66.4	61.2	57.3		130		
power line	4	56.0	47.1	50.9		Ref.		
Battery surf	ace	48.5	43.5	50.0	4	Ref.		



		<u> </u>						
			ı	EC 62368-1	4	3,0		
Clause	Requirement + T	est		10	Resul	t - Remark		Verdict
Plastic end	closure			50.9	50.8	54.3		Ref.
Ambient	1 K	4		40.0	40.0	40.0	2	
Accessibl	e part			<u>۸</u> ـ				
Power butt	ton	.01		30.9	33.3	35.2	-X+	48
Plastic end	closure inside near	TYPE-C		37.8	39.8	35.9	3-	Ref.
Button	- 3			32.1	33.9	34.7		Ref.
Adpapter		۰٫۲		53.3	50.7		-	77
Ambient	, <b>L</b>	160		25.0	25.0	25.0	(C)-	<b>~</b>
Temperatu	ıre T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω	2) t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed $T_{\text{max}}$ (°C)	Insulation class
				2			<del>/-</del>	٠

#### Supplementary information:

The manufacturer's specified maximum operation temperature is 40°C

Condition A: Off mode, charged an empty battery by 12.0Vdc AC adapter.

Condition B: On mode, charging fully discharged battery by 12.0Vdc AC adapter, WiFi connected, playing three vertical bar, max sound, max brightness.

Condition C: On mode supplied by 4.35V fully charged battery, WiFi connected, playing three vertical bar, max sound, max brightness.

TAE	BLE: Inpu	it test						Р
Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status
-	2.25	3.0	11.25	· - 1	-	¢-		
-	2.22	3.0	11.10	1	<del>-</del>	- - 3		
1	2.27	1/2	1	1		- (		
	1.92	1.67	17.28		The state of the s			
-	1.94	1.67	17.46	4-		A. E.		
	Hz	Hz I (A) 2.25 2.22 2.27	2.25 3.0 2.22 3.0 2.27 1.92 1.67	Hz         I (A)         I rated (A)         P (W)            2.25         3.0         11.25            2.22         3.0         11.10            2.27              1.92         1.67         17.28	Hz         I (A)         I rated (A)         P (W)         P rated (W)            2.25         3.0         11.25             2.22         3.0         11.10             2.27               1.92         1.67         17.28	Hz         I (A)         I rated (A)         P (W)         P rated (W)         Fuse No            2.25         3.0         11.25              2.22         3.0         11.10              2.27               1.92         1.67         17.28	Hz         I (A)         I rated (A)         P (W)         P rated (W)         Fuse No         I fuse (A)            2.25         3.0         11.25               2.22         3.0         11.10               2.27                 1.92         1.67         17.28	Hz         I (A)         I rated (A)         P (W)         P rated (W)         Fuse No         I fuse (A)         Condition            2.25         3.0         11.25            Condition           Battery         2.23A            2.22         3.0         11.10            Condition           Battery         1.92A            Condition           Battery         2.27A            1.92         1.67         17.28            Condition           Battery         6.54A            1.94         1.67         17.46            Condition           Battery         6.54A            Condition           Battery         6.54A            Condition



	, (I)	IEC 62368-1	d 200		
Clause	Requirement + Test	, OT 2	Result - Remark	4	Verdict

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

Condition A: Off mode, charged an empty battery by 5.0Vdc AC adapter.

Condition B: On mode, charging fully discharged battery by 5.0Vdc AC adapter, WiFi connected, playing three vertical bar, max sound, max brightness.

Condition C: On mode supplied by 4.35V fully charged battery, WiFi connected, playing three vertical bar, max sound, max brightness.

Condition D: Off mode, charged an empty battery by 12.0Vdc AC adapter.

Condition E: On mode, charging fully discharged battery by 12.0Vdc AC adapter, WiFi connected, playing three vertical bar, max sound, max brightness.

Ambient tempera	ture T <sub>amb</sub> (°C)	)	,	:	See below	4	
Power source for					4	, (1)	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observati	on
Empty battery On	ly charge		<b>V</b>				,
J31pin13-24	SC	12VDC	10min	ф <u>-</u>		Unit working as nafter short circuit, damaged, no haz Battery current:2. →2.042A	no ards.
ully battery discl	harge.	7				+	
J31pin13-15	SC	Fully battery	10min			Unit working as nafter short circuit damaged, no haz Battery current: 2.241A—	no ards.
J31pin13-19	S sc	Fully battery	10min	Zirit		Unit working as nafter short circuit, damaged, no haz Battery current:2.286A→	no zards.
J26pinA1-B1	sc	Fully battery	10min	**	- Stiff	Speaker shut dov recoverable, no cono hazards. Battery current:2.268A→	lamage,
Speaker	sc	Fully battery	10min	<u> </u>		Speaker shut dov recoverable, no cono hazards. Battery current:2.278A→	lamage,



4	-CT - ZT	IEC 62368-1	c+ 3,0	
Clause	Requirement + Test		Result - Remark	Verdict

M.3	TABLE: Pr	otection circu	uits f	or batteri	es provided	within the	e equi	ipme	ent	Р
Is it possible	to install the	battery in a re	verse	e polarity p	osition?:		-	-		
					Charg	ging				
Equipment S	pecification		Vo	ltage (V)			(	Curre	ent (A)	
		•		12			,	1.	67	4
					Battery spe	cification				
		Non-recharge	eable	batteries		Recharg	geable	batt	eries	
		Discharging		ntentional	Cha	rging			narging	Reverse
Manufactu	urer/type	current (A)	charging current (A)		Voltage (V)	Current (A)		curre	ent (A)	charging current (A
SHEN ZHEN JIAJINYUAN TECHNOLOG CO.,LTD/OT8		ALIENT .	4		4.35	4.4		4	1.4	0
		l re applicable o	nly w	vhen above	e appropriate	data is no	t avail	lable.		
		ture (°C)				0-60		H		
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)	Current (A)	Volta (V		Obs	servation
	Normal	Charge		2hr 01min	Battery cell surface: 29.8°C max. Ambient: 25°C	2.549	4.3		Unit no charged NE NF	rmally d. NL NS
J31pin13-24	SC	Charge		2hr 01min	Battery cell surface: 29.8°C max. Ambient: 25°C	2.042	4.3		Unit no charged NE NF	rmally d. NL NS
	Normal	Discharge	,	2hr	Battery cell surface:	2.278	4.3		Unit no	rmally ged. NL NS

## 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.

M.4	.2	TABLE: C	harging s	afeguards	for equipment co	ntaining a	secondary	/ lithium	Р	
>		battery	<del>**</del>					7		



	IE	C 62368-1			
nent + Test			Result - Re	mark	Verdict
harging voltage	e (V)		: 4.35	. L	_
harging curren	t (A)		: 4.4		
rging tempera	ture (°C)		: 60		
rging temperat	ure (°C)	7 5	: 0		
Operating		Measurement	<u> </u>	Observation	n
and fault condition	Charging voltage (V)	Charging current (A)	Temp.		
Normal operation	4.35	2.549	Battery cell surface: 29.8°C max.	NL, NS, NE, NF	4
J31pin13-24 SC	4.35	2.042	Battery cell surface: 29.8°C max.	NL, NS, NE, NF	et .
HSCT	4.35	0	Battery cell surface: 60°C.	NL, NS, NE, NF	
LSCT	4.35	0	Battery cell surface: 0°C	NL, NS, NE, NF	
	harging voltage harging curren urging temperat rging temperat Operating and fault condition  Normal operation  J31pin13-24 SC  HSCT	harging voltage (V)	harging voltage (V)	Normal operation   A.35   A.	Result - Remark   Result - R

#### Abbreviation:

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)							
Output	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub> (A)		S (\	/A)	
Circuit	Condition	O <sub>oc</sub> (V)	Tillie (S)	Meas.	Limit	Meas.	Limit	
		-2				4-		
Supplemen	tary Information:							
	<del>7</del> <u>3</u> , ,							

T.2, T.3, T.4, T.5	ABLE: Steady for	rce test		- 4		P
Location/Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Top of enclosur	e Glass	See table 4.1.2		100	5	No damaged, no hazard
Side of enclosu	re Plastic	See table 4.1.2		100	5	No damaged, no hazard



		IEC	C 62368-1	4			
Clause Requ	irement + Test	<u> </u>		Result	- Remark		Verdict
Bottom of enclosure	Plastic	See table 4.1.2		100	5	No dama	aged, no
Supplementary inf	ormation:						
4		* *				, <b>L</b>	

T.6, T.9 TABLE: Imp	act test			7	N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation	on
*			-		
Supplementary information	ղ:				
				,L	4

T.7	TABLE: Drop	p test	٨_	14	P + P	
Location/Pa	rt	Material	Thickness (mm)	Height (mm)	Observation	
Top of enclo	sure	Glass	See table 4.1.2	1000	No damaged, no hazard	
Side of encl	osure	Plastic	See table 4.1.2	1000	No damaged, no hazard	
Bottom of er	nclosure	Plastic	See table 4.1.2	1000	No damaged, no hazard	
Supplement	Supplementary information:					
	L S		4	L .		

T.8 TABLE	: Stress relief to	est –			P		
Location/Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation		
Enclosure	Plastic	See table 4.1.2	70	7	No damage, no hazards.		
Supplementary information:							
. L	7 6						

X	TABLE: Alternat	TABLE: Alternative method for determining minimum clearances distances N/A					
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
4		\$\text{\$\psi\$} \times \		* 5, 4			
Supplement	ary information:						
4	1 SEP	<u></u>	_	4			



	.O	IEC 62368-1	A 20		
Clause	Requirement + Test		Result - Remark	-	Verdict

4.1.2	TAE	BLE: Critical comp	onents informati	on			Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s conforr	
Metal enclos	ure	Interchangeable	Interchangeable	1.0mm thickness Min.	IEC 62368-1	Tested appliar	
РСВ		RED BOARD LTD	B103C	V-0, 130°C	UL 796	UL E13	33472
Internal wire		Interchangeable	Interchangeable	Min 28AWG, 80°C, 300V	UL 758	UL	3.07
Adapter		Shenzhen Flypower Technology Co., Ltd	PS20C120K167 0EC	Input: 100-240V~, 50/60Hz, 0.6A MAX Output: 5.0Vdc,3.0A,15W/ 9.0Vdc,2.22A,19. 98W/12.0Vdc,1.6 7A 20.0W MAX	EN IEC 62368- 1: 2020+A11: 2020	Report ATSL2 1	No.: 2081531
Li-Battery		SHEN ZHEN JIAJINYUAN TECHNOLOGY CO.,LTD	OT8	3.8V, 8800mAh 33.44Wh	IEC 62133-2: 2017+A1: 2021	Report RSZBI 242038	HST2311
Speaker		Shenzhen Meisheng Electronics Co., Ltd	MYS1217-C- A9B	7.0Ω±15%ohm, 2.53V Max 2.0W	EN IEC 62368- 1: 2020+A11: 2020	Tested appliar	
LCD module	>	Shenzhen AOLY Technology Co., Ltd	ZC- SL110PM40D3 410-A00	Module Size (W*H*T): 165.22mm*253.6 7*2.80mm	EN IEC 62368- 1: 2020+A11: 2020	Tested appliar	

# Supplementary information:

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



			IEC62368_1E - ATTACHME	ENT	
1	Clause	Requirement + Test	10 5	Result - Remark	Verdict

# ATTACHMENT TO TEST REPORT

IEC 62368-1

# EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES (AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - PART 1: SAFETY REQUIREMENTS)

**Differences according to**...... EN IEC 62368-1:2020+A11:2020

Attachment Form No...... EU\_GD\_IEC62368\_1E

Attachment Originator .....: UL(Demko)

Master Attachment ...... 2021-02-04

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4	CENELEC COMMON MODIFICATIONS (EN)	Р
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.	Р
*	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	
	Add the following annexes:	Р
	Annex ZA (normative) Normative references to international publications with their corresponding European publications	
	Annex ZB (normative) Special national conditions	4
	Annex ZC (informative) A-deviations	
	Annex ZD (informative) IEC and CENELEC code designations for flexible cords	
1	Modification to Clause 3.	
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:	N/A
3.3.19.1	momentary exposure level, MEL	N/A
	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	A. Cot
	Note 1 to entry: MEL is measured as A-weighted levels in dB.  Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	.ct



	IEC62368_1E - ATTA	СНМЕ	ENT	
Clause	Requirement + Test	4	Result - Remark	Verdict
3.3.19.3	sound exposure, E		4 (	N/A
et se	A-weighted sound pressure $(p)$ squared and integrated over a stated period of time, $T$			
	Note 1 to entry: The SI unit is $Pa^2$ s.  T $C = \int_{-\infty}^{\infty} (x)^2 dx$		at suit	
	$E = \int_{0}^{\infty} p(t)^{2} dt$		4	at-
3.3.19.4	sound exposure level, SEL		4 4	N/A
Z. Cit	logarithmic measure of sound exposure relative reference value, <i>E</i> <sub>0</sub> , typically the 1 kHz threshold of hearing in humans.	e to a		
	Note 1 to entry: SEL is measured as A-weighted levels in	dB.	All All All	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$		7	_ <
٠ ــــــــــــــــــــــــــــــــــــ	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.		THE THE THE	.4
3.3.19.5	digital signal level relative to full scale, dBF	S		N/A
- 4 <sup>10</sup>	levels reported in dBFS are always r.m.s. Full level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak is positive digital full scale, leaving the code corresponding to negative digital full scale unu	value		Zi <sup>ch</sup>
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. level Because the definition of full scale is based on a sine wav level of signals with a crest factor lower than that of a sine may exceed 0 dBFS. In particular, square wave signals m reach +3,01 dBFS.	e, the wave		, cit
2	Modification to Clause 10			
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following			P
10.6.1.1	Introduction		*	Р
S.EL	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely cout to the ear are specified below. Requirements for earphones and headphones intended for us with personal music players are also covered. A personal music player is a portable equipment.	ire pled se	Arith Arith	
ot si	intended for use by an <b>ordinary person</b> , that:  - is designed to allow the user to listen to aud audiovisual content / material; and  - uses a listening device, such as headphone	io or		<u>, et</u>



IEC62368_1E - ATTACHMENT					
Clause	Requirement + Test		~	Result - Remark	Verdict
	earphones that can be worn	in or on or		,L	
	around the ears; and				
	<ul> <li>has a player that can be be</li> </ul>		Э	-	
	suitable to be carried in a clo	othing pocket) and			
	is intended for the user to w		ile in	.1	
	continuous use (for example				7
	in a subway, at an airport, e	tc.).			Ť
	EVAMPLES Portable CD players A	AD2 audio players, mak	ila		
	EXAMPLES Portable CD players, No phones with MP3 type features, PD			4	4
				4	
	Personal music players shall	I comply with the			3
	requirements of either 10.6.2				
. 1	NOTE A Post of the second seco			4.	
	NOTE 1 Protection against acoustic telecom applications is referenced				
	Ciecom applications is releighted	to 11 0-1 1 .300.		.1	4
	NOTE 2 It is the intention of the Co				
	alternative methods for now, but to		**	A 6	X
	measurement method as given in 1 manufacturers are encouraged to it			-W 7	4
	possible.		40	2	
		A			
	Listening devices sold separ	rately shall comply	with		4 3
	the requirements of 10.6.6.			1 4	
	These requirements are vali	d for music or vide	0		
4	mode only.				
<b>**</b>	The requirements do not ap	ply to:			A- 2
	<ul> <li>professional equipment;</li> </ul>				W 4
	NOTE 2 Profession	a modulum a make a chall the con-			7,
	NOTE 3 Professional equipment is special sales channels. All products		1	<b>L</b>	
	normal electronics stores are consi		ional		
	equipment.				
					W 7
	<ul> <li>hearing aid equipment and</li> </ul>	d other devices for		* * *	
	assistive listening;	•		*	
4	<ul> <li>the following type of analo</li> </ul>	gue personal musi	С	2	.1
	players:				
	<ul> <li>long distance radio receive</li> </ul>			لم	
	multiband radio receiver or v			40	
·	receiver, an AM radio receiv	er), and		A 2	
	<ul> <li>cassette player/recorder;</li> </ul>				
1	NOTE 4 This exemption has been	allowed because this		4	ملہ
	technology is falling out of use and			4	
	within a few years it will no longer e		ll not		
	be extended to other technologies.			L	
	_ a player while connected t	o an evternal ampl	ifier	.07 4	
4	<ul> <li>a player while connected t that does not allow the user</li> </ul>		iiiei		4
大	while in use.	to waik around			
	willie iii use.				
	For equipment that is clearly	designed or inton	hah		4. 4
	primarily for use by children,		ueu	*	•
	relevant toy standards may	арріу.		80.	1
<b>*</b>	The relevant requirements	ro givon in		<b>)</b>	
Y 2	The relevant requirements a		ode		
	EN 71-1:2011, 4.20 and the		ous		
Ì	and measurement distances	appiy.			



	JE JE	C62368_1E - ATTAC	CHMENT	
Clause	Requirement + Test	40	Result - Remark	Verdict
10.6.1.2	Non-ionizing radiation fro the range 0 to 300 GHz	om radio frequencie	es in	N/A
	The amount of non-ionizing European Council Recomn of 12 July 1999 on the limit general public to electroma GHz).	nendation 1999/519/lation of exposure of	EC the	- Zrith
	For intentional radiators, IC be taken into account for L Time-Varying Electric, Mag Electromagnetic Fields (up held and body mounted de to EN 50360 and EN 5056	imiting Exposure to gnetic, and to 300 GHz). For ha vices, attention is dra	and-	ST.EF
10.6.2	Classification of devices	without the capacit	ty to estimate sound dose	N/A
10.6.2.1	General  This standard is transitioning based (30 s) requirements hour) requirements. These only for devices that do not dose estimation as stipulated.	to long-term based (clauses remain in ef t comply with sound		N/A
	For classifying the acoustic measurements are based of equivalent sound pressure	on the A-weighted level over a 30 s per		
	For music where the avera term $LAeq, \tau$ ) measured ove song is lower than the avera programme simulation nois be done over the duration of this case, $T$ becomes the d	er the duration of the rage produced by the se, measurements manager of the complete song	ay	
A. C. L.	NOTE Classical music, acoustic results has an average sound pressure (much lower than the average programme in the programme is does not need to be given as long pressure of the song does not extend for example, if the player is set we noise to 85 dB, but the average medical models are the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the basic limit of the song is not above the song is not abo	long term $L_{Aeq}$ , $\tau$ ) which is gramme simulation noise. to analyse the content an mulation noise, the warning as the average sound ceed the required limit. With the programme simulation of the song is owarning or ask an average sound level of the 5f 85 dB.	nd ng ation only	
10.6.2.2	RS1 limits (to be superse	ded, see 10.6.3.2)	- 4	N/A
	RS1 is a class 1 acoustic enot exceed the following:  – for equipment provided a its listening device), and with connector between the played device, or where the combine is a country of the combine is a country of the country of t	is a package (player ith a proprietary yer and its listening ination of player and	with	
	listening device is known b setting or automatic detect	y other means such	as	AT OF



-		C62368_1E - ATTAC		
Clause	Requirement + Test		Result - Remark	Verdict
* <u>~</u>	output shall be ≤ 85 dB whe "programme simulation noi 50332-1. – for equipment provided was connector (for example, a 3	se" described in EN vith a standardized	THE WILL S	
	allows connection to a liste use, the unweighted r.m.s. ≤ 27 mV (analogue interface interface) when playing the simulation noise" described	ning device for gener output voltage shall be e) or -25 dBFS (digita fixed "programme	pe /	
	- The RS1 limits will be up per 10.6.3.2.	dated for all devices a	as the state of th	
10.6.2.3	RS2 limits (to be superse	ded, see 10.6.3.3)	7 7 7	N/A
	RS2 is a class 2 acoustic e not exceed the following: – for equipment provided a its listening device), and wi connector between the pla	s a package (player with a proprietary		Air s
	device, or when the combination listening device is known be setting or automatic 130 de acoustic output shall be ≤ 1 the fixed "programme simu	nation of player and y other means such a etection, the $L_{Aeq,T}$ 100 dB(A) when playir	1	Figt.
	described in EN 50332-1.  — for equipment provided w connector (for example, a 3 allows connection to a liste use, the unweighted r.m.s. ≤ 150 mV (analogue interfainterface) when playing the	3,5 phone jack) that ening device for gener output voltage shall b ace) or -10 dBFS (digi e fixed "programme	pe L	
0.6.2.4	simulation noise" as descri	bed in Ein 50332-1.		N/A
ROT	RS3 is a class 3 acoustic e exceeds RS2 limits.	energy source that	¥ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	* 3.60
0.6.3	Classification of devices	(new)		N/A
0.6.3.1	General		+ 3	N/A
	Previous limits (10.6.2) cre negative and false positive warnings. New limits, comp Commission Decision of 23 below.	PMP sound level bliant with The		- 3:07
10.6.3.2	RS1 limits (new)		7	N/A
	RS1 is a class 1 acoustic e not exceed the following: – for equipment provided a with its listening device), ar	as a package (player	es with	
	connector between the plate device, or where the combilistening device is known b	yer and its listening ination of player and		



-	V. 5.	EC62368_1E - ATTACHN	MENI	
Clause	Requirement + Test		Result - Remark	Verdict
* Ariet	setting or automatic detection output shall be ≤ 80 dB will "programme simulation not 50332-1.  — for equipment provided connector (for example, a allows connection to a list use, the unweighted r.m.s ≤ 15 mV (analogue interfainterface) when playing the simulation noise" described	hen playing the fixed bise" described in EN with a standardized 3,5 phone jack) that ening device for general c. output voltage shall be ace) or -30 dBFS (digital the fixed "programme"	et grieft grieft	
10.6.3.3	RS2 limits (new)			N/A
	RS2 is a class 2 acoustic not exceed the following:  – for equipment provided its listening device), and v connector between the pladevice, or where the combistening device is known setting or automatic detection exposure level, as described simulation noise described—for equipment provided connector (for example, a allows connection to a list use, the unweighted r.m.s over one week, as described ≤ 15 mV (analogue into (digital interface) when plate programme simulation not 50332-1.	as a package (player with vith a proprietary ayer and its listening bination of player and by other means such as stion, the weekly sound bed in EN 50332-3, shall the fixed "programme ed in EN 50332-1. with a standardized 3,5 phone jack) that ening device for general soutput level, integrated bed in EN50332-3, shall erface) or -30 dBFS aying the fixed bise" described in EN		
10.6.4	Requirements for maxin	num sound exposure		Р
10.6.4.1	Measurement methods  All volume controls shall to during tests.  Measurements shall be mEN 50332-1 or EN 50332-1	nade in accordance with	Ariest Ariest	P
10.6.4.2	Protection of persons Except as given below, pr parts accessible to ordin persons and skilled pers  NOTE 1 Volume control is not or	rotection requirements for nary persons, instructed sons are given in 4.3.		P
	Between RS2 and an ord safeguard may be replaced safeguard in accordance that the instructional safe on the equipment, or on the instruction manual.  Alternatively, the instruction is not a safeguard in accordance that the instructional safe on the equipment, or on the instruction manual.	inary person, the basic ed by an instructional with Clause F.5, except eguard shall be placed ne packaging, or in the		



		C62368_1E - ATTA	СНМ	ENT	•
Clause	Requirement + Test	19	4	Result - Remark	Verdict
	given through the equipme	nt display during use	€.	L (	
	The elements of the <b>instru</b>	uctional safeguard	shall		
	be as follows:	ctional saleguara s	or iaii		*
	- element 1a: the symbol 4	/ <sub>1</sub> /9\ , IEC 60417-6	044		4
	(2011-01)	,120 00+17-0			
	– element 2: "High sound p	oressure" or equivale	nt		
	wording				<b>*</b>
	- element 3: "Hearing dam	age risk" or equivale	ent		
	wording  – element 4: "Do not listen	at high volume leve	e for		
	long periods." or equivalen		3 101		
		J. J.			
	An equipment safeguard				4
	of an <b>ordinary person</b> to a		ut		
	intentional physical action person and shall automati		nut		
	level not exceeding what is				
	source when the power is		•		
					4 5
	The equipment shall provide				
	inform the user of the incre		nen		
	the equipment is operated exceeding RS1. Any mean		•		
	acknowledged by the user				
	mode of operation which a				
	exceeding RS1. The acknowledge				
	need to be repeated more	than once every 20	h of		
	cumulative listening time.				
	NOTE 2 Examples of means inclu	ude visual or audible sign	als.		7
	Action from the user is always ne				
	NOTE 3 The 20 h listening time is	s the accumulative listenir	na		
	time, independent of how often a	nd how long the personal	٠ــ		
	music player has been switched of	эπ.			
	A skilled person shall not	be unintentionally			
	exposed to RS3.	<u> </u>			
10.6.5	Requirements for dose-b	ased systems		4	N/A
10.6.5.1	General requirements				N/A
	Personal music players sh	all give the warnings	20		5,
	provided below when teste		as	* 3	
	50332-3, using the limits fr				
				4	*
	The manufacturer may offe			<u>.</u>	
	allow the users to modify w				4 2
	to receive the notifications a better user experience w		mote	* 3	
	safeguards. This allows the		ed in		
	a method that best meets t				4
	and device usage needs. I	f such optional settin	gs		
	are offered, an administrat	or (for example, pare	ental		



Clause	Requirement + Test		~	Result - Remark	Verdict
	restrictions by since /od/	antinum al andre inintratore			
	restrictions, business/edu			* 3	
	etc.) shall be able to lock a specific configuration.	any optional settings i	nio		
	a specific configuration.				
	The personal music playe	r shall he sunnlied wit	h	•	20
	easy to understand expla				
	dose management syster			AL	
	how to use the system sa				
	made aware that other so				
	contribute to their sound e	exposure, for example			
	work, transportation, cond	erts, clubs, cinema, c	ar	, A	
	races, etc.				7
10.6.5.2	Dose-based warning an	d requirements	<b>_</b>		N/A
		00.			
	When a dose of 100 % C			1	
	least at every 100 % furth		ne		*
	device shall warn the use			A	
	acknowledgement. In cas acknowledge, the output l		lv,		
	decrease to compliance v		ıy	2	
	decrease to compliance v	vitir diass (Co.)			
	The warning shall at least	clearly indicate that			+
	listening above 100 % CS				
	hearing damage or loss.				
10.6.5.3	Exposure-based require	ements	•	2. 5	N/A
	With only dose-based req				
	effect could be far separa			7	
	purpose of educating use				
	practice. In addition to do				
	PMP shall therefore also term sound level a user c				
	term sound lever a user c	an nsten at.		<u>ال</u> الله الله الله الله الله الله الله ا	
	The exposure-based limit	er (FL) shall automatic	rally		
	reduce the sound level no			2	
	150 mV integrated over the				
	methodology defined in E			*	
	The EL settling time (time				
	reduction to reaching targ		s or		
	faster.		<del> </del>		4
					X-
	Test of EL functionality is			ــــــــــــــــــــــــــــــــــــــ	
	EN 50332-3, using the lim				2
	equipment provided as a			* 3	
	listening device), the leve				
	shall be 100 dB or lower.			4	1
	with a standardized conne integrated over 180 s sha			4	
	for an analogue interface				5
	dBFS for a digital interface				
	asi o ioi a digital intollat	₹.			
	NOTE In case the source is kno				
	signal), the EL may be disabled			• ·	



	JUN ZIN IE	C62368_1E - ATTAC	CHME	ENT	· ·
Clause	Requirement + Test	1467	4	Result - Remark	Verdict
10.6.6.1	Corded listening devices				N/A
	With 94 dB LAeq acoustic prolistening device, and with the settings in the listening device volume level control, additional equalization, etc.) set to the positions that maximize the	ne volume and sound ice (for example, bui onal sound features e combination of measured acoustic	d lt-in		T. C.
	output, the input voltage of when playing the fixed "pronoise" as described in EN 5 mV.	gramme simulation i0332-1 shall be ≥ 75			A.C.
	NOTE The values of 94 dB and 75 and 27 mV or 100 dB and 150 mV		dB	4, 1	
10.6.6.2	Corded listening devices	with digital input			N/A
	With any playing device pla "programme simulation nois 50332-1, and with the volur the listening device (for exa	se" described in EN ne and sound setting		Aligh Ali Ali	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	level control, additional sou equalization, etc.) set to the positions that maximize the output, the LAeq, racoustic of	combination of measured acoustic	1		
	device shall be ≤ 100 dB widBFS.			S' <b>F</b>	+ 4
10.6.6.3	Cordless listening device	s		4	N/A
	In cordless mode,  – with any playing and trans the fixed programme simula EN 50332-1; and			- Ariest	
	respecting the cordless tr where an air interface stand the equivalent acoustic level	dard exists that spec el; and	ifies	A THE A	
	<ul> <li>with volume and sound se device (for example, built-in additional sound features lil to the combination of position</li> </ul>	n volume level contro ke equalization, etc.) cons that maximize th	ol, set e		4
A.C.	measured acoustic output f programme simulation nois output of the listening devic an input signal of -10 dBFS	e, the $L_{Aeq,T}$ acoustice shall be $\leq 100 \text{ dB}$	3	A A A	Sigt.
10.6.6.4	Measurement method  Measurements shall be ma		th	4111	N/A
3	EN 50332-2 as applicable.	de sume ut			N1/A
_	Modification to the whole	document			N/A



			IE	C62368_1E	- ATTACHME	ENT		
Clause	R	equirement ·	+ Test			Result - Rem	nark	Verdict
	D lis		"country" note	es in the refe	erence docum	ent according	to the following	N/A
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
		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	
		5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	Z.C.
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	<i>*</i>
	4	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	>	Y.4.5	Note				7	
		< n	1	ı	I .	1 .47	•	
	M	odification	to Clause 1					Р
4	Ni ele		wing note: e of certain subst				+ 450	R



٠		A 4	IEC62368_1E - ATTACHME	ENT	
	Clause	Requirement + Test	. K. Z.	Result - Remark	Verdict

5	Madification to 4.74	NI/A
	Modification to 4.Z1	N/A
4.Z1	Add the following new subclause after 4.9:	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	Ariet Ariet
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;	ALIENT ALIE
4	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	Arith Arith A
	c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	
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 subclause:  The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	N/A
7	Modification to 10.2.1	N/A
10.2.1	Add the following to <sup>c)</sup> and <sup>d)</sup> in table 39:  For additional requirements, see 10.5.1.	N/A



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	Clause	Requirement + Test	. K. Z.	Result - Remark	Verdict

8	Modification to 10.5.1	N/A
8 10.5.1	Add the following after the first paragraph:  For RS 1 compliance is checked by measurement under the following conditions:  In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.  NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.  The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.  Moreover, the measurement shall be made under	N/A N/A
	fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.  For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.  NOTE Z2 These values appear in Directive 96/29/Euratom of 13	
9	May 1996.  Modification to G.7.1	N/A
G.7.1	Add the following note:	
9.7.1	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	N/A



٠		A 4	IEC62368_1E - ATTACHME	ENT	
	Clause	Requirement + Test	. K. Z.	Result - Remark	Verdict

10	Modification to Bibliography	N/A
	Add the following notes for the standards indicated:	N/A
		7
	IEC 60130-9 NOTE Harmonized as EN 60130-9.	
	IEC 60269-2 NOTE Harmonized as HD 60269-2.	
	IEC 60309-1 NOTE Harmonized as EN 60309-1.	
*	IEC 60364 NOTE some parts harmonized in HD 3	184/HD 60364 series.
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	
2	IEC 60664-5 NOTE Harmonized as EN 60664-5.	
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998	(not modified).
	IEC 61508-1 NOTE Harmonized as EN 61508-1.	¥
*	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1.	
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	\$
4	IEC 61643-321 NOTE Harmonized as EN 61643-321.	<b>b</b>
	IEC 61643-331 NOTE Harmonized as EN 61643-331.	
	TEC 01043-331 NOTE Translated as EN 01043-331.	<i>↓</i>
11	ADDITION OF ANNEXES	N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
4.1.15	Denmark, Finland, Norway and Sweden	N/A
	To the conduction and all of the conductions in a late of	
	To the end of the subclause the following is added:  Class I pluggable equipment type A intended for	7
	connection to other equipment or a	<u> </u>
	network shall, if safety relies on connection to	
-	reliable earthing or if surge suppressors	
	are connected between the network terminals and	4
	accessible parts, have a marking stating that the	
	equipment shall be connected to an earthed mains	
	socket-outlet.	
		At William
4	The marking text in the applicable countries shall be	The state of the s
417		ich ziet ziet
4	The marking text in the applicable countries shall be as follows:	THE THEFT
A. A.	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en	Ariest Ariest Ariest
	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til	Ariest Ariest Ariest
Filt.	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	Ariest Ariest Ariest
Ailt Ailt	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til	Ariet Ariet Ariet
Ailt Ailt	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In <b>Norway</b> : "Apparatet må tilkoples jordet	at whet whet
Ariet Ariet	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Ariest Ar
A STATE OF THE STA	The marking text in the applicable countries shall be as follows:  In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In <b>Norway</b> : "Apparatet må tilkoples jordet	Ariest Ariest Ariest Ariest



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Clause	Requirement + Test		Result - Remark	Verdict
4.7.3	United Kingdom		.t 2	N/A
	To the end of the subclause	e the following is adde	d:	4
4	The torque test is performe complying with BS 1363, an assessed to the relevant clasee Annex G.4.2 of this ann	nd the plug part shall b auses of BS 1363. Als	e Ø	- 4.00
5.2.2.2	Denmark		4	N/A
	After the 2nd paragraph ad	d the following:	4	Z.C.
	A warning (marking safegu- current is required if the tou limits of 3,5 mA a.c. or 10 m	ich current exceeds th	e din	
5.4.11.1	Finland and Sweden	70		↓ N/A
and Annex G	To the end of the subclause	e the following is adde	d:	4
	For separation of the teleco		4	4
	If this insulation is solid, inc part of a component, it shall consist of either	l at least	740 Fig. 2	
	two layers of thin sheet is shall pass the electric st			
	one layer having a distal at least 0,4 mm, which s strength test below.		of	
	If this insulation forms part component (e.g. an optoco distance through insulation	upler), there is no		
	insulation consisting of an i completely filling the casing creepage distances do not passes the electric strength the compliance clause belo	nsulating compound g, so that clearances a exist, if the componen n test in accordance wi	t	- Z <sup>e</sup>
	<ul> <li>passes the tests and insp with an electric strength t by 1,6 (the electric streng performed using 1,5 kV),</li> </ul>	ection criteria of 5.4.8 est of 1,5 kV multiplied of 5.4.9 shall b		S. E.
	and		4	. CH
	is subject to routine testi during manufacturing, u kV.			
	It is permitted to bridge this capacitor complying with El subclass Y2.		* * *	



		62368_1E - ATTACHMI		1
Clause	Requirement + Test		Result - Remark	Verdict
	A capacitor classified Y3 acc 14:2005, may bridge this inst the following conditions:  • the insulation requirement having a capacitor classif EN 60384-14, which in ac is tested with an impulse 5.4.11;	ulation under s are satisfied by ied Y3 as defined by Idition to the Y3 testing,		
	the additional testing shall the test specimens as des 14;		with with	Zi <sup>i</sup>
4	the impulse test of 2,5 kV is the endurance test in EN 603 sequence of tests as describ	384-14, in the	at stat	
5.5.2.1	Norway			N/A
	After the 3rd paragraph the fo	ollowing is added:		4
	Due to the IT power system required to be rated for the a voltage (230 V).		and and a	
5.5.6	Finland, Norway and Swed	en		N/A
	Resistors used as basic safe basic insulation in class I p type A shall comply with G.1 G.10.2.	eguard or bridging		
5.6.1	Denmark			N/A
	Add to the end of the subcla Due to many existing installa outlets can be protected with with higher rating than the ra outlets the protection for plug equipment type A shall be ar	tions where the socket- fuses ting of the socket- ggable	Ariest Ariest	
	equipment.  Justification:			4
	In Denmark an existing 13 A protected by a 20 A fuse.	socket outlet can be		
5.6.4.2.1	Ireland and United Kingdon	n	4	N/A
	After the indent for <b>pluggabl</b> the following is added:  – the <b>protective current rat</b> this being the largest rating of <b>mains</b> plug.	i <b>ng</b> is taken to be 13 A,	with white	4 ·



	The state of the s	62368_1E - ATTAC	IIIVIL		
Clause	Requirement + Test		Š	Result - Remark	Verdict
5.6.4.2.1	France				N/A
	After the indent for pluggabl	e equipment type	Α,		
	the following is added:				
	<ul> <li>in certain cases, the protect the circuit supplied from the instead of 16 A.</li> </ul>				
5.6.5.1	To the second paragraph the	following is added:			N/A
	The way of a sudueton since	- £ 6 - 10			4
	The range of conductor sizes accepted by terminals for equal to the conductor sizes				
	current over 10 A and up to a				
	1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross				
5.6.8	Norway			4	N/A
	To the end of the subclause	the following is adde	əd.		
	Equipment connected with a				
	classified as class I equipm	ent. See the Norwa			
	marking requirement in 4.1.1	•			
	60417-6092, as specified in I	3.6.2, is accepted.			
5.7.6	Denmark				N/A
	To the end of the subclause	the following is adde	ed:		
	The installation instruction sh	nall be affixed to the	5		
	equipment if the protective				
<b>&gt;</b>	exceeds the limits of 3,5 mA	a.c. or 10 mA d.c.			
5.7.6.2	Denmark				N/A
	To the end of the subclause	the following is adde	ed:		
	The warning (marking safegu				
	current is required if the touc				
	protective current exceed the	e limits of 3,5 mA.			
5.7.7.1	Norway and Sweden				N/A
	To the end of the subclause	the following is adde	ed:		
	The screen of the television	distribution system i	s		
	normally not earthed at the e		ing		
	and there is normally no equi	ipotential bonding			
	system within the building. Therefore the protective eart	hing of the building			4
	installation needs to be isolated		of		
	a cable distribution system.				
	It is believe and the man	vide the inevoletion			
	It is however accepted to pro external to the equipment by				
	interconnection cable with ga		ch		
	may be provided by a retaile				
	The second of th	and the fell of			
	The user manual shall then h		r		
	similar information in Norweg language respectively, deper				
	country the equipment is inte				
		<b>A</b>			
	"Apparatus connected to the	protoctive corthing	of.		



		EC62368_1E - ATTACHN	MENT	
Clause	Requirement + Test	A	Result - Remark	Verdict
Clause	the building installation threconnection or through other connection to protective earned to a television distributed cable, may in some circum hazard. Connection to a tesystem therefore has to be device providing electrical frequency range (galvanic 11)"  NOTE In Norway, due to regulating Sweden, a galvanic isolator shall below 5 MHz. The insulation shall below 5 MHz. The insulation shall of 1,5 kV r.m.s., 50 Hz or 60 Hz.  Translation to Norwegian (be accepted in Norway):  "Apparater som er koplet to nettplugg og/eller via anneutstyr – og er tilkoplet et konett, kan forårsake brannfa For å unngå dette skal det apparater til kabel-TV nett galvanisk isolator mellom anettet."	er apparatus with a carthing — tion system using coaxianstances create a fire elevision distribution exprovided through a isolation below a certain isolator, see EN 60728-con for CATV-installations, and inprovide electrical insulation and in the Swedish text will also also in the swedish text will also in the s		verdict
8.5.4.2.3	Translation to Swedish: "Apparater som är kopplad vägguttag och/eller via anr samtidigt är kopplad till kal medföra risk för brand. För vid anslutning av apparate galvanisk isolator finnas m kabel-TV nätet.".  United Kingdom  Add the following after the paragraph:  An emergency stop system requirements of IEC 60204 required where there is a re	nan utrustning och bel-TV nät kan i vissa fall ratt undvika detta skall n till kabel-TV nät lellan apparaten och 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> n complying with the 1-1 and ISO 13850 is		N/A



Olavia		C62368_1E - ATTACH		Manaliat
Clause	Requirement + Test		Result - Remark	Verdict
B.3.1 and B.4	Ireland and United Kingdo	om	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
	The following is applicable:			ملم
	To protect against excessiv circuits in the primary circuit	t of direct plug-in	A A	
	equipment, tests according B.4 shall be conducted usin circuit breaker complying w	g an external miniature		
	rated 32A. If the equipment		2,	
	tests, suitable protective de	vices shall be included		
	as an integral part of the <b>di</b> i until the requirements of An met			
G.4.2	Denmark	A- A		N/A
U.4.2			大	IN/A
	To the end of the subclause	the following is added		
	Supply cords of single phas	e appliances having a		
	rated current not exceeding	13 A shall be provided	1 2	
	with a plug according to DS	60884-2-D1:2011.		4- 5
	CLASS I EQUIPMENT prov	rided with socket-outlet	s + A	
	with earth contacts or which	are intended to be		
	used in locations where pro contact is required according		4. 4	
	shall be provided with a plu			
	standard sheet DK 2-1a or	DK 2-5a.		
	If a single-phase equipmen	t having a RATED		
	CURRENT exceeding 13 A	or if a polyphase	K. 4.	A- X
	equipment is provided with plug, this plug shall be in ac			
	standard sheets DK 6-1a in			
	60309-2.		4,	*
	Mains socket outlets intend	ed for providing power	<b>AL</b>	
	to Class II apparatus with a			
	shall be in accordance DS	60884-2-D1:2011		
	standard sheet DKA 1-4a.		- 2	
	Other current rating socket			
	compliance with Standard S	Sheet DKA 1-3a		
	or DKA 1-1c.			
	Mains socket-outlets with e	arth shall be in	3	4
	compliance with DS 60884-			
	Standard Sheet DK 1-3a, D 5a or DK 1-7a	K 1-1c, DK1-1d, DK 1-		4 .
	OG OF DICT TO		+	
	Justification:		- C	
	Heavy Current Regulations	Section 6c	<u>-</u>	



	IEC62368	3_1E - ATTACHME	ENT	
Clause	Requirement + Test	X	Result - Remark	Verdict
G.4.2	United Kingdom	~	<i>A</i>	N/A
	To the end of the subclause the fol	llowing is added:	- 45	· .
	The plug part of direct plug-in equipassessed to BS 1363: Part 1, 12.1, 12.11, 12.12, 12.13, 12.16, and 12 the test of 12.17 is performed at no 125 °C. Where the metal earth pin Insulated Shutter Opening Device requirements of clauses 22.2 and 2	, 12.2, 12.3, 12.9, 1.17, except that ot less than is replaced by an (ISOD), the		
G.7.1	United Kingdom	zo also apply.		N/A
	To the first paragraph the following Equipment which is fitted with a fle cord and is designed to be connect socket conforming to BS 1363 by r flexible cable or cord shall be fitted plug' in accordance with the Plugs (Safety) Regulations 1994, Statuto 1994 No. 1768, unless exempted be regulations.  NOTE "Standard plug" is defined in SI 1768 means an approved plug conforming to BS	exible cable or ted to a mains means of that I with a 'standard and Sockets etc. ory Instrument by those		Tight &
G.7.1	conversion plug.			N/A
J.1.1	To the first paragraph the following Apparatus which is fitted with a flex cord shall be provided with a plug i with Statutory Instrument 525: 199 and Conversion Adapters for Dome	xible cable or in accordance 7, "13 A Plugs estic Use	t grifft	IN/A
	Regulations: 1997. S.I. 525 provide recognition of a standard of another	er Member State		AL (1975)
0.70	which is equivalent to the relevant Ireland and United Kingdom	Irish Standard		A1/A
G.7.2	To the first paragraph the following  A power supply cord with a conduction is allowed for equipment which is read up to and including 13 A.	ctor of 1,25 mm <sup>2</sup>	41/EF + 4	N/A



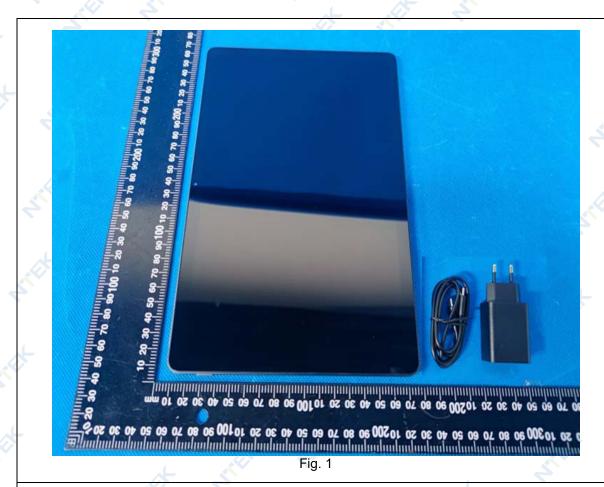
	IEC	62368_1E - ATTACHI	MENT	
Clause	Requirement + Test	20	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEV	/IATIONS (EN)	*	N/A
10.5.2	Germany  The following requirement ap			N/A
	For the operation of any cath for the display of visual image acceleration voltage exceeding required, or application of the approval (Bauartzulassung) a	es operating at an ng 40 kV, authorizat <mark>i</mark> o ype		
	Justification: German ministerial decree ag (Röntgenverordnung), in force 2002-07-01, implementing the 96/29/EURATOM.	e since	on since the same of the same	*
	NOTE Contact address: Physikalisch-Technische Bundesans 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet:		Air A	4



	A Z	IEC62368_1E - ATTACHME	ENT	
Clause	Requirement + Test	70 7	Result - Remark	Verdict

IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE O	ORDS (EN)	N/A
Type of flexible cord	Code designations		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	N.C.
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	H03RR-H	
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H	
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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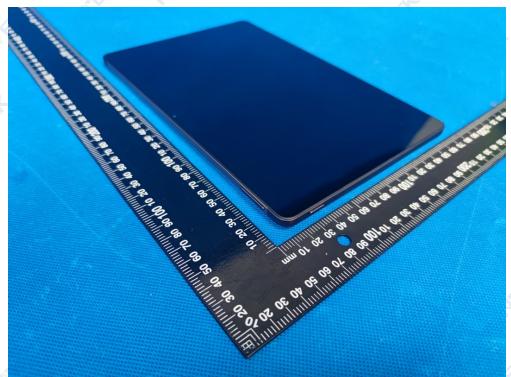


Fig. 2

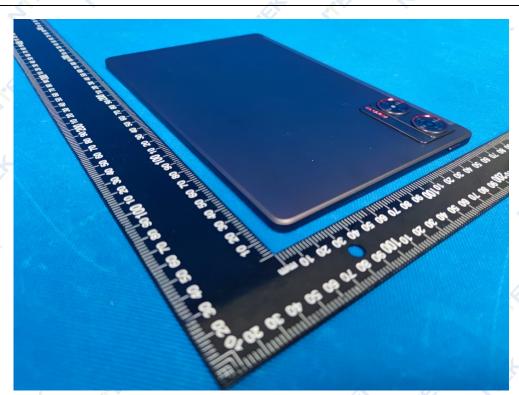


Fig. 3

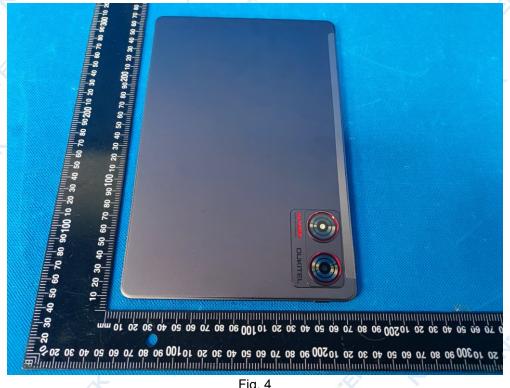


Fig. 4



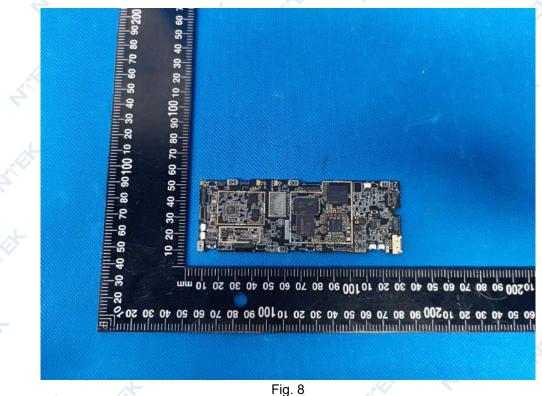
Fig. 5



Fig. 6



Fig. 7



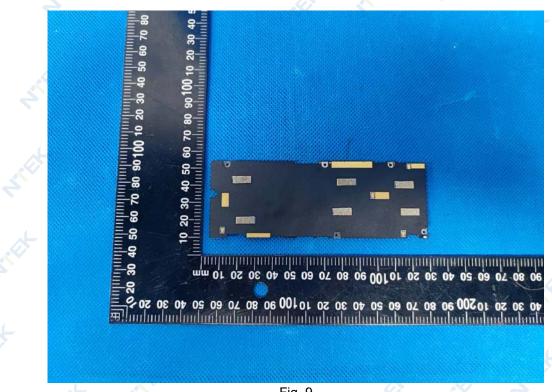
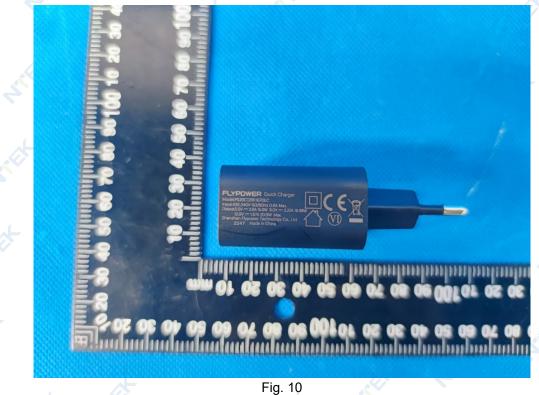


Fig. 9



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