

TEST REPORT

Report No.: \$23112100804001

Product: Smart Phone

Model No.: WP36, WP36 S, WP36 Pro, WP36 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

Tel.: 400-800-6106, 0755-2320 0050 / 2320 0090

CE

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TEST REPORT IEC 62368-1

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

Report Number:	S23112100804001		
Tested by (+ signature):	Young Yin	Young Fin	
Approved by (+ signature): Date of issue:	Henson Dong 2023-12-29	Henson Dung	
		ion Tocharles On 149	
Name of Testing Laboratory preparing the Report:	1&5/F, Building C, 1&2	ing Technology Co., Ltd. 2/F, Building E, Fenda Science Park, Sa ng Street, Baoan District, g, China	ınwei
Applicant's name:	SHENZHEN YUNJI IN	ITELLIGENT TECHNOLOGY CO.,LTD	
Address:	Industrial Park, No. 20	on Valley Power Intelligent Terminal), Dafu Industrial Zone, Kukeng Commu nua District, Shenzhen China	nity,
Test specification:	4	L 4 0	
Standard:	☐ IEC 62368-1: 2018	(Third Edition)	
ct 2"	☑ EN IEC 62368-1:20	020+A11:2020	
Test procedure:	CE Scheme		
Non-standard test method:	N/A		
TRF template used:	IECEE OD-2020-F1:20	021, 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::	Smart Phone		
Trade Mark:	OUKITEL		
Manufacturer:	SHENZHEN YUNJI II	NTELLIGENT TECHNOLOGY CO.,LTD)
	Industrial Park, No. 20	con Valley Power Intelligent Terminal 20, Dafu Industrial Zone, Kukeng Commo ghua District, Shenzhen China	unity,
Model/Type reference:	WP36, WP36 S, WP3	36 Pro, WP36 Ultra	
Ratings:	Input: 9Vdc, 2.22A		
A =			



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

Attachment 1: 21 pages (National deviation)

Attachment 2: 6 pages (Photo)

Summary of testing:

Tests performed (name of test and test clause):

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.

OUKITEL

WP36

FCC ID: 2ANMU-WP36

IME12:356606900000021

S/N:OUKITEL 00001



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:	☑ Ordinary person☑ Instructed person☑ Skilled person	
Supply connection:	☐ AC mains ☑ not mains conr ☑ ES1	□ DC mains nected: □ ES2 □ ES3
Supply tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ + %/ - ☑ None	% the same that
Supply connection – type:	pluggable equi	letachable supply cord ance coupler plug-in
Ret with whet	applia permanent con mating connec	letachable supply cord ance coupler nection tor
Considered current rating of protective device:	☐ A. Location: ☐ N/A	ctly connected to mains
Equipment mobility::	☐ movable ☐ direct plug-in ☐ wall/ceiling-mo	│ hand-held
Overvoltage category (OVC):	☐ other: ☐ OVC I ☐ OVC IV	
Class of equipment:		ctly connected to the mains Class II Class III
Special installation location: Pollution degree (PD):	N/A □ outdoor locatio □ PD 1	restricted access area n PD 2 PD 3
Manufacturer's specified T _{ma} :		: minimum °C
IP protection class:	IPX0 □ IP	
Power systems:	☐ TN ☐ TT ☐ not AC mains	□IT- V _{L-L}
Altitude during operation (m):		
Altitude of test laboratory (m):	2000 m or less	™ 000 m
Mass of equipment (kg):	Approx. 0.39 kg	



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:	* 100 -
Date of receipt of test item	: 2023-12-01
Date (s) of performance of tests	: 2023-12-01 to 2023-12-08
General remarks:	
"(See appended table)" refers to a table appende Throughout this report a comma / poin When differences exist; they shall be identified	t is used as the decimal separator.
Name and address of factory (ies):	N/A
General product information and other remar	ks:
 The product is Smartphone to be used for an equipment. Manufacturer's specified maxim operating an equipment. 	udio/video, information and communication technology ambient: 40°C
Model Differences –	4
Only the model name is different	



Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	0,1			
(e.g. ES3: Primary circuit)	Body Part (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 st S	2 nd S
PS2: (All circuits)	PCB	N/A	V-0	N/A
PS2: Battery cell	Enclosure	N/A	N/A	V-0
7	Injury caused by hazardous substances			
Class and Energy Source	Body Part Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Battery cell	Complied with annex M	N/A	N/A	_N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Equipment Mass	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A
MS1: Sharp edges and corners	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: All accessible parts	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part Safeguards			
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LCD display	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A
RS2: Acoustic	Ordinary/ Instructed/ Skilled	See 10.6	N/A	N/A



ENERGY SOURCE DIAGRAM

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

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

⊠ES ⊠PS ⊠MS ⊠TS ⊠RS

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



				0.00.
		IEC 62368-1	A 2	•
Clause	Requirement + Test		Result - Remark	Verdict
		4 6		

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	Р
4.1.2	Use of components	Safeguard components are certified to IEC and/or national standards and are used correctly within their ratings.	P
4.1.3	Equipment design and construction	Evaluation of safeguards limiting the source supplying outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered.	P
4.1.4	Specified ambient temperature for outdoor use (°C)	A 25 6	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	,Q	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	* 3,0	N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests		N/A
4	Glass impact test (1J)		N/A
	Push/pull test (10 N)	. CT - Z'	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	P
4.4.3.9	Air comprising a safeguard	*	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	Р
4.4.4	Displacement of a safeguard by an insulating liquid	4,	N/A
4.4.5	Safety interlocks	مل ما	N/A
4.5	Explosion		Р
4.5.1	General	70	Р
4.5.2	No explosion during normal/abnormal operating condition		Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.6	Fixing of conductors	4 30	Р
+ /	Fix conductors not to defeat a safeguard		Р
	Compliance is checked by test:		P
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	Not such equipment.	N/A
4.7.3	Torque (Nm):	4	N/A
4.8	Equipment containing coin/button cell batteries	<u> </u>	N/A
4.8.1	General	Coin battery fixed in place.	N/A
4.8.2	Instructional safeguard:	7, 4	N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test	10 4 E	N/A
4.8.4.3	Battery replacement test	4	N/A
4.8.4.4	Drop test	*	N/A
4.8.4.5	Impact test	* * *	N/A
4.8.4.6	Crush test	71, 7,	N/A
4.8.5	Compliance	, di	N/A
	30N force test with test probe		N/A
	20N force test with test hook	L .	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A
4.10	Component requirements	4	N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		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)	P
5.2.2.3	Capacitance limits	-CF	N/A
5.2.2.4	Single pulse limits:	4,	N/A
5.2.2.5	Limits for repetitive pulses:	~	N/A
5.2.2.6	Ringing signals	L (40)	N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources	7	N/A



		IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
5.3.1	General Requirements for accordinary, instructed and skilled		Only ES1 circuit generated and accessible in this equipment	N/A
5.3.1 a)	Accessible ES1/ES2 derived	from ES2/ES3 circuits		N/A
5.3.1 b)	Skilled persons not unintentio conductors	onal contact ES3 bare	L .0t 25.00	N/A
5.3.2.1	Accessibility to electrical ener safeguards	rgy sources and	4	N/A
	Accessibility to outdoor equip	ment bare parts	*	N/A
5.3.2.2	Contact requirements	<i>ب</i> ـ	40 7	N/A
	Test with test probe from Ann	nex V		_
5.3.2.2 a)	Air gap – electric strength tes	t potential (V)::		N/A
5.3.2.2 b)	Air gap – distance (mm)	:		N/A
5.3.2.3	Compliance	.0	2	N/A
5.3.2.4	Terminals for connecting strip	pped wire	· ·	N/A
5.4	Insulation materials and rec	quirements	+ * *	Р
5.4.1.2	Properties of insulating mater	rial	10 10 A	Р
5.4.1.3	Material is non-hygroscopic	L A		N/A
5.4.1.4	Maximum operating temperat materials		, L 45	Р
5.4.1.5	Pollution degrees	:	+ 10	N/A
5.4.1.5.2	Test for pollution degree 1 en insulating compound	vironment and for an	The state	N/A
5.4.1.5.3	Thermal cycling test		760 E	N/A
5.4.1.6	Insulation in transformers with	n varying dimensions	4	N/A
5.4.1.7	Insulation in circuits generating	ng starting pulses		N/A
5.4.1.8	Determination of working volta	age:	4 3	N/A
5.4.1.9	Insulating surfaces	, , , , , , , , , , , , , , , , , , ,		N/A
5.4.1.10	Thermoplastic parts on which parts are directly mounted	conductive metallic		N/A
5.4.1.10.2	Vicat test	<u> </u>	4	N/A
5.4.1.10.3	Ball pressure test	:		N/A
5.4.2	Clearances	4		N/A
5.4.2.1	General requirements			N/A
	Clearances in circuits connec Alternative method	eted to AC Mains,	30 3	N/A
5.4.2.2	Procedure 1 for determining of	clearance		N/A
	Temporary overvoltage	<u> </u>	* * *	_



	IEC 62368-1	<u> </u>	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	4 3	N/A
5.4.2.3.2.2	a.c. mains transient voltage:	- 4	_
5.4.2.3.2.3	d.c. mains transient voltage:		_
5.4.2.3.2.4	External circuit transient voltage:		_
5.4.2.3.2.5	Transient voltage determined by measurement:		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	4	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	10t 3100 ·	N/A
5.4.2.6	Clearance measurement:	7	N/A
5.4.3	Creepage distances	*	_ N/A
5.4.3.1	General	* 7, 4,	N/A
5.4.3.3	Material group:	3,0	_
5.4.3.4	Creepage distances measurement:		N/A
5.4.4	Solid insulation	1 1	N/A
5.4.4.1	General requirements		N/A
5.4.4.2	Minimum distance through insulation:	5 7	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	*	N/A
5.4.4.5	Insulating compound forming cemented joints	F 300	N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements	.0 - 2	N/A
5.4.4.6.2	Separable thin sheet material	4	N/A
160	Number of layers (pcs):	4	N/A
5.4.4.6.3	Non-separable thin sheet material	L 19	N/A
	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	4	N/A
5.4.4.6.5	Mandrel test	.L	N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	- L 3	N/A
	Alternative by electric strength test, tested voltage (V), K_R	A 300	N/A
5.4.5	Antenna terminal insulation	5	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.5.3	Insulation resistance (M):	* 3	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	- 10- 20	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:	1	N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits	7.10 5 7.	N/A
5.4.10.1	Parts and circuits separated from external circuits	.1	N/A
5.4.10.2	Test methods	L & &	N/A
5.4.10.2.1	General	10 10 4	N/A
5.4.10.2.2	Impulse test	4	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	t 18th	N/A
5.4.11	Separation between external circuits and earth	* *	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 _{op} (V):	70 A	_
4	Nominal voltage U _{peak} (V)		_
3	Max increase due to variation U _{sp} :		_
	Max increase due to ageing U _{sa} :	A 2	
5.4.11.3	Test method and compliance:	7,	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:	10 4	N/A
5.4.12.3	Compatibility of an insulating liquid:	€ 6	N/A
5.4.12.4	Container for insulating liquid	L 4	N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.5	Components as safeguards	4 3	N/A
5.5.1	General	- 100	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	- 10 4	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers	A .C.	N/A
5.5.5	Relays	10 70	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	2 7	N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation	L P	N/A
5.6.3	Requirement for protective earthing conductors	F .	N/A
	Protective earthing conductor size (mm²)	4	_
	Protective earthing conductor serving as a reinforced safeguard		N/A
1,0	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	A 2	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 10 4	N/A
5.6.5.2	Corrosion	A C	N/A
5.6.6	Resistance of the protective bonding system	.0	N/A
5.6.6.1	Requirements	+ + 3°	N/A



		IEC 62368-1	7	
Clause	Requirement + Test		Result - Remark	Verdict
5.6.6.2	Test Method		4 3	N/A
5.6.6.3	Resistance () or voltage drop			N/A
5.6.7	Reliable connection of a protect conductor	tive earthing	*	N/A
5.6.8	Functional earthing	7	/ Z	N/A
<i>A</i>	Conductor size (mm²)		21	N/A
	Class II with functional earthing	marking:		N/A
	Appliance inlet cl & cr (mm)	:	A	N/A
5.7	Prospective touch voltage, to	ouch current and protec	ctive conductor current	N/A
5.7.2	Measuring devices and network	ks		N/A
5.7.2.1	Measurement of touch current			N/A
5.7.2.2	Measurement of voltage		CT 25	N/A
5.7.3	Equipment set-up, supply connections	ections and earth		N/A
5.7.4	Unearthed accessible parts	:	, ,,	N/A
5.7.5	Earthed accessible conductive	parts:		N/A
5.7.6	Requirements when touch curre limits	ent exceeds ES2	.0	N/A
	Protective conductor current (m	nA):		N/A
	Instructional Safeguard	:		N/A
5.7.7	Prospective touch voltage and t associated with external circuits		4	N/A
5.7.7.1	Touch current from coaxial cabl	les		N/A
5.7.7.2	Prospective touch voltage and t associated with paired conductor	touch current or cables	4	N/A
5.7.8	Summation of touch currents from	om external circuits		N/A
	a) Equipment connected to eart circuits, current (mA)		7,07	N/A
Zigi.	b) Equipment connected to une circuits, current (mA)			N/A
5.8	Backfeed safeguard in battery	y backed up supplies	A 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	4	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



	IEC 62368-1		1
Clause	Requirement + Test	Result - Remark	Verdict
6.2.3.1	Arcing PIS:	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	4	Р
6.3	Safeguards against fire under normal operating ar conditions	nd abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 C for unknown materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
	Combustible materials outside fire enclosure:	4	N/A
6.4	Safeguards against fire under single fault condition	ons Common American	Р
6.4.1	Safeguard method	Method of Control fire spread used.	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	4	Р
6.4.3.1	Supplementary safeguards	L 4 0	Р
6.4.3.2	Single Fault Conditions	(See appended table B.3, B.4)	Р
<i>*</i>	Special conditions for temperature limited by fuse	5 6	N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	See below.	Р
6.4.5.2	Supplementary safeguards		Р
6.4.6	Control of fire spread in PS3 circuits		N/A
6.4.7	Separation of combustible materials from a PIS	· C	N/A
6.4.7.2	Separation by distance	4,	N/A
6.4.7.3	Separation by a fire barrier	4	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	7	N/A
6.4.8.2.2	Requirements for a fire enclosure	Fire enclosures: V-0	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	7	N/A
6.4.8.3.2	Fire barrier dimensions	4 3	N/A
6.4.8.3.3	Top openings and properties	* 2	N/A
1	Openings dimensions (mm)		N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):	* * * *	N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Flammability tests for the bottom of a fire enclosure	* *	N/A
+	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm):		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	- 310- 42	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	4	Р
6.5.1	General requirements	*	_ P
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		Р
8.2	Mechanical energy source classifications	2	Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and c	orners	Р
8.4.1	Safeguards	70 G	Р
太	Instructional Safeguard:	4	N/A
8.4.2	Sharp edges or corners	Equipment mass: MS1 Accessible edges and corners of the equipment are rounded and are classified as MS1.	Р
8.5	Safeguards against moving parts		N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts	N/A
4	MS2 or MS3 part required to be accessible for the function of the equipment	, , ,	N/A
	Moving MS3 parts only accessible to skilled person	L (4)	N/A
8.5.2	Instructional safeguard:	- 10 4	N/A
8.5.4	Special categories of equipment containing moving parts	-	N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts	74. 4	N/A
8.5.4.2.1	Protection of persons in the work cell	, L	N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system	10 4 4.	N/A
8.5.4.2.2.2	Visual indicator	4	N/A
8.5.4.2.3	Emergency stop system		N/A
4	Maximum stopping distance from the point of activation (m):	A 30 50	N/A
	Space between end point and nearest fixed mechanical part (mm):	A CONTRACTOR OF THE PROPERTY O	N/A
8.5.4.2.4	Endurance requirements	* 4	N/A
	Mechanical system subjected to 100 000 cycles of operation	* 45°°°	N/A
	- Mechanical function check and visual inspection	X+ 3,00	N/A
	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	*	N/A
8.5.4.3.1	Equipment safeguards	* 3,,	N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N):		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps	No such lamps provided.	N/A
	Explosion test:	<i>↓</i>	N/A
8.5.5.3	Glass particles dimensions (mm):	4 (0) 7	N/A
8.6	Stability of equipment	10 4	N/A
8.6.1	General	₹ Q	N/A
	Instructional safeguard:	4 4 5	N/A



	IEC 62368-1	<u> </u>	_
Clause	Requirement + Test	Result - Remark	Verdict
8.6.2	Static stability	* 30	N/A
8.6.2.2	Static stability test	:,-	N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
4	Wheels diameter (mm)	** ***	
	Tilt test	4	N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test	: 40 10	N/A
8.7	Equipment mounted to wall, ceiling or other str	ucture	N/A
8.7.1	Mount means type	,	N/A
8.7.2	Test methods	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
	Test 1, additional downwards force (N)	: 100 7 6	N/A
	Test 2, number of attachment points and test force (N)		N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)	LOT LOT LIVE	N/A
8.8	Handles strength	4 4	N/A
8.8.1	General	No handle	N/A
8.8.2	Handle strength test	*	N/A
	Number of handles	A 3 (
4	Force applied (N)		N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test	4,	N/A
8.10	Carts, stands and similar carriers	-	N/A
8.10.1	General	4	N/A
8.10.2	Marking and instructions		N/A
8.10.3	Cart, stand or carrier loading test	7	N/A
3	Loading force applied (N)	:	N/A
8.10.4	Cart, stand or carrier impact test	Jr 42	N/A
8.10.5	Mechanical stability	30	N/A
	Force applied (N)	:	N/A
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A
8.11.1	General	12,	N/A
8.11.2	Requirements for slide rails		N/A



	IEC 62368-1	7	
Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:	* 3	N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied:	1	N/A
8.11.3.2	Lateral push force test	4	N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance	4	N/A
8.12	Telescoping or rod antennas	.	N/A
	Button/ball diameter (mm):		_

9	THERMAL BURN INJURY	Р
9.2	Thermal energy source classifications	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	P
	Lasers	4	
7	Lamps and lamp systems:	LCD display comply with RS1	_
	Image projectors	.40	_
	X-Ray	7	_
	Personal music player	A 43	_
10.3	Safeguards against laser radiation	A 2	N/A
*	The standard(s) equipment containing laser(s) comply:	\$	N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	P



	IEC 62368-1		Ť
Clause	Requirement + Test	Result - Remark	Verdict
10.4.1	General requirements	LED comply with RS1	Р
,	Instructional safeguard provided for accessible radiation level needs to exceed	- 45	N/A
7	Risk group marking and location:	*	N/A
	Information for safe operation and installation	* **	N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:	* **	N/A
10.5	Safeguards against X-radiation	10 2	N/A
10.5.1	Requirements		N/A
4	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg):	A 25 35	_
10.6	Safeguards against acoustic energy sources	4	Р
10.6.1	General		Р
10.6.2	Classification	+ A A	N/A
	Acoustic output $L_{Aeq,T}$, dB(A):	This product not sold together with the earphone, and RS1 & RS2 limits as provided based on full scale when playing the fixed programme simulation noise described in EN 50332-1. See below	N/A
4	Unweighted RMS output voltage (mV)::	Maximum volume: Right: 107mV; Left: 109mV	Р
.1	Digital output signal (dBFS):	4	N/A
10.6.3	Requirements for dose-based systems	, L	N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	7	N/A
3	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A):	* 3	N/A
10.6.4	Measurement methods	3,0	N/A
10.6.5	Protection of persons		N/A
it 4	Instructional safeguards:	1. Symbol ; 2. "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not	P



	IEC 62368-1	, OT - Z'	
Clause	Requirement + Test	Result - Remark	Verdict
*	t sint sin	listen at high volume levels for long periods" or equivalent wording.	
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	at the second	N/A
10.6.6.1	Corded listening devices with analogue input	A 25	N/A
	Listening device input voltage (mV)	200	N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output L _{Aeq,T} , dB(A):	* *	N/A
10.6.6.3	Cordless listening devices	74, 4,	N/A
	Max. acoustic output L _{Aeq,T} , dB(A):		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:	4 4	Р
B.2.3	Supply voltage and tolerances	7 3"	Р
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	4	Р
B.3.1	General	4	Р
B.3.2	Covering of ventilation openings	*	N/A
	Instructional safeguard	4 4	N/A
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector		N/A
B.3.5	Maximum load at output terminals		N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions	Short circuit of speaker considered.	APP .
B.3.8	Safeguards functional during and after abnormal operating conditions	* 164 ×	Р
B.4	Simulated single fault conditions		Р
B.4.1	General	, L	Р
B.4.2	Temperature controlling device	* * * *	N/A



		Report No. 5231121008	04001
	IEC 62368-1	A 2	*
Clause	Requirement + Test	Result - Remark	Verdict
B.4.3	Blocked motor test	* 3	N/A
B.4.4	Functional insulation	- 3	Р
B.4.4.1	Short circuit of clearances for functional insulation		P
B.4.4.2	Short circuit of creepage distances for functional insulation	At State	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	4	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	at at	Р
B.4.6	Short circuit or disconnection of passive components	4, 4	Р
B.4.7	Continuous operation of components		∟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	4	Р
	<i>₹</i> ₹		I.
С	UV RADIATION		N/A

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

D	TEST GENERATORS	N/A
D.1	Impulse test generators	N/A
D.2	Antenna interface test generator	N/A
D.3	Electronic pulse generator	N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	
E.1	Electrical energy source classification for audio signals	
	Maximum non-clipped output power (W) /	_
	Rated load impedance (Ω)	_
*	Open-circuit output voltage (V) /	<u> </u>
	Instructional safeguard /	_



-3 E		110001110: 620112166661661	
	IEC 62368-1	A 2	•
Clause	Requirement + Test	Result - Remark	Verdict
E.2	Audio amplifier normal operating conditions	* 30	Р
£	Audio signal source type	- 🔆	_
	Audio output power (W)	See table 4.1.2	_
	Audio output voltage (V)	See table 4.1.2	_
	Rated load impedance (Ω):	See table 4.1.2	_
	Requirements for temperature measurement	4	N/A
E.3	Audio amplifier abnormal operating conditions		N/A
	1		

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		⊢ P
	Language	English.	_
F.2	Letter symbols and graphical symbols	3,	Р
F.2.1	Letter symbols according to IEC60027-1		N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	A A 30	Р
F.3	Equipment markings	7, 4,	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	.L .	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	P
F.3.3.5	Rated frequency	<i>A</i> .	N/A
F.3.3.6	Rated current or rated power	See copy of marking plate	Р
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	<u> </u>	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking	A	N/A



F.3.5.3	Requirement + Test Replacement fuse identification and rating markings	Result - Remark	Verdict N/A
F.3.5.3			N/A
	Instructional safeguards for neutral fuse		14//1
		, 4	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	4	N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment	7	N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:	4 2 3	N/A
F.3.6.2	Equipment class marking	3,	N/A
F.3.6.3	Functional earthing terminal marking		N/A
F.3.7	Equipment IP rating marking		N/A
F.3.8	External power supply output marking	\(\text{\int}\exitingta\exitingta\exitingen\exitin\ex	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		P
3	a) Information prior to installation and initial use		N/A
4	b) Equipment for use in locations where children not likely to be present		Р
	c) Instructions for installation and interconnection		N/A
4	d) Equipment intended for use only in restricted access area		N/A
,	e) Equipment intended to be fastened in place		N/A
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard	4 4	N/A
	h) Protective conductor current exceeding ES2 limits		N/A
*	i) Graphic symbols used on equipment	4	N/A
4	j) Permanently connected equipment not provided with all-pole mains switch	唐 唐	N/A



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	IEC 62368-1	- 3	
Clause	Requirement + Test	Result - Remark	Verdict
	k) Replaceable components or modules providing safeguard function		N/A
	Equipment containing insulating liquid	4	N/A
7	m) Installation instructions for outdoor equipment	*	N/A
F.5	Instructional safeguards	* 3	Р

G	COMPONENTS		P
G.1	Switches	4	N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load	4	N/A
G.1.3	Test method and compliance	*	_N/A
G.2	Relays		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	A A A	N/A
G.2.4	Test method and compliance	31, 3,	N/A
G.3	Protective devices	.C	N/A
G.3.1	Thermal cut-offs		N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	F 3,00	N/A
4	Thermal cut-outs tested as part of the equipment as indicated in c)	A 310	N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		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		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	4	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	* 3/07 5	N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings	* * *	N/A



	IEC 6	62368-1	7	T
Clause	Requirement + Test	4	Result - Remark	Verdict
G.4.2	Mains connector configuration	:	* 3	N/A
G.4.3	Plug is shaped that insertion into mains outlets or appliance coupler is unlikely	socket-	4i'	N/A
G.5	Wound components	4	*	Р
G.5.1	Wire insulation in wound components	4	* *	N/A
G.5.1.2	Protection against mechanical stress	.0		N/A
G.5.2	Endurance test	4		N/A
G.5.2.1	General test requirements		4	N/A
G.5.2.2	Heat run test	4	10 4	N/A
	Test time (days per cycle)			_
7	Test temperature (C)			_
G.5.2.3	Wound components supplied from the r		A 4 5	N/A
G.5.2.4	No insulation breakdown	.07 3		N/A
G.5.3	Transformers		.1	N/A
G.5.3.1	Compliance method			N/A
4	Position			N/A
	Method of protection			N/A
G.5.3.2	Insulation		3,1	N/A
	Protection from displacement of winding	gs:	C.F	_
G.5.3.3	Transformer overload tests	* *		N/A
G.5.3.3.1	Test conditions			N/A
G.5.3.3.2	Winding temperatures		10 A	N/A
G.5.3.3.3	Winding temperatures - alternative test	method		N/A
G.5.3.4	Transformers using FIW		*	N/A
G.5.3.4.1	General	4	* 3	N/A
4	FIW wire nominal diameter		Zill Till Till Till Till Till Till Till	_
G.5.3.4.2	Transformers with basic insulation only			N/A
G.5.3.4.3	Transformers with double insulation or rinsulation	reinforced	A 300	N/A
G.5.3.4.4	Transformers with FIW wound on metal core	or ferrite		N/A
G.5.3.4.5	Thermal cycling test and compliance	4.	<u>, </u>	N/A
G.5.3.4.6	Partial discharge test		+ 3	N/A
G.5.3.4.7	Routine test	4		N/A
G.5.4	Motors			Р
G.5.4.1	General requirements		* * 5	Р



	IEC 62368-1	7 4	
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.2	Motor overload test conditions	4 30	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		_
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	,_	N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit	7, 4	N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors	X	N/A
	Operating voltage:	* * *	_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation	5,	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	4 4	N/A
	Type:	4	_
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	*	N/A
G.7.3.2	Cord strain relief	* 3	N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material	4	N/A
G.7.4	Cord Entry	.L &	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
4	Overall diameter or minor overall dimension, D (mm)	A A A	_



	IEC 62368-1	<u> </u>	
Clause	Requirement + Test	Result - Remark	Verdict
	Radius of curvature after test (mm):	A 300	_
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand	4	N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire	74, 4	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	4	N/A
G.9.1	Requirements	*	N/A
	IC limiter output current (max. 5A):	* * *	_
	Manufacturers' defined drift:		_
G.9.2	Test Program	A	N/A
G.9.3	Compliance	4	N/A
G.10	Resistors	L	N/A
G.10.1	General	, 4 , 4	N/A
G.10.2	Conditioning	4 3	N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units	3	N/A
G.11.1	General requirements	4	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	4	N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V _{ini, a} :	- A	_
*	Routine test voltage, V _{ini, b} :		_
G.13	Printed boards		PL



	, (° 2°	IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
G.13.1	General requirements		* 30°	Р
G.13.2	Uncoated printed boards	4		Р
G.13.3	Coated printed boards	* *		N/A
G.13.4	Insulation between conductors or surface	the same inner	at soft	N/A
G.13.5	Insulation between conductors or	different surfaces		N/A
	Distance through insulation	<i>₹</i> :		N/A
	Number of insulation layers (pcs)	:	4 .0	
G.13.6	Tests on coated printed boards	*	4 4	N/A
G.13.6.1	Sample preparation and prelimina	ary inspection		N/A
G.13.6.2	Test method and compliance			N/A
G.14	Coating on components termin	als	A 4 5	N/A
G.14.1	Requirements			N/A
G.15	Pressurized liquid filled compo	nents		N/A
G.15.1	Requirements		* * *	N/A
G.15.2	Test methods and compliance	. L		N/A
G.15.2.1	Hydrostatic pressure test			N/A
G.15.2.2	Creep resistance test	7		N/A
G.15.2.3	Tubing and fittings compatibility to	est		N/A
G.15.2.4	Vibration test	A 45	3	N/A
G.15.2.5	Thermal cycling test	74, 4,		N/A
G.15.2.6	Force test			N/A
G.15.3	Compliance	4	4	N/A
G.16	IC including capacitor discharg	ge function (ICX)	*	N/A
G.16.1	Condition for fault tested is not re	quired	A- (50)	N/A
	ICX with associated circuitry tested	d in equipment	10	N/A
	ICX tested separately	19		N/A
G.16.2	Tests			N/A
	Smallest capacitance and smallest specified by ICX manufacturer for		10t 4	_
- CT	Mains voltage that impulses to be		* -	_
	Largest capacitance and smallest tested by itself for 10000 cycles to		St 73,00	_
G.16.3	Capacitor discharge test	<u></u>		N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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)	4	
H.3.1.2	Voltage (V)	.	_
H.3.1.3	Cadence; time (s) and voltage (V)		_
H.3.1.4	Single fault current (mA):	4, 6	_
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	3	N/A
H.3.2.3	Monitoring voltage (V):	.1	N/A

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	
J.1	General	N/A
	Winding wire insulation:	
	Solid round winding wire, diameter (mm):	N/A
	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
K.4	Interlock safeguard override	N/A
K.5	Fail-safe	N/A
K.5.1	Under single fault condition	N/A
K.6	Mechanically operated safety interlocks	N/A
K.6.1	Endurance requirement	N/A
K.6.2	Test method and compliance:	N/A
K.7	Interlock circuit isolation	N/A



	IEC 62368-1				
Clause	Requirement + Test	1/4 5	Result - Remark	Verdict	
K.7.1	Separation distance for contacting elements	ct gaps & interlock	//>	N/A	
	In circuit connected to mains, for contact gaps (mm)			N/A	
	In circuit isolated from mains, for contact gaps (mm)			N/A	
	Electric strength test before a K.7.2			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	DISCONNECT DEVICES	
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	AL (40)	Р
M.2.1	Batteries and their cells comply with relevant IEC standards:		Р
M.3	Protection circuits for batteries provided within the equipment	4	P
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery	(See appended table M.3)	Р
	Excessive discharging	(See appended table M.3)	Р
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A



*	IEC 62368-1	\(\text{\text{\$\sigma}}\)	1
Clause	Requirement + Test	Result - Remark	Verdict
M.3.3	Compliance	(See appended table M.3)	Р
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards	* 3	Р
M.4.2.1	Requirements		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 secondary lithium battery	4, 4,	Р
M.4.4.2	Preparation and procedure for the drop test		Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		Р
M.4.4.4	Check of the charge/discharge function		Р
M.4.4.5	Charge / discharge cycle test		Р
M.4.4.6	Compliance		Р
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits	1	Р
M.6.1	External and internal faults		Р
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd batter	ies	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate		N/A
M.7.2	Test method and compliance		N/A
1	Minimum air flow rate, Q (m ³ /h):	21	N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A



	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdict
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	N/A
M.8.1	General	N/A
M.8.2	Test method	N/A
M.8.2.1	General	N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m³/s):	_
M.8.2.3	Correction factors:	_
M.8.2.4	Calculation of distance d (mm):	
M.9	Preventing electrolyte spillage	N/A
M.9.1	Protection from electrolyte spillage	N/A
M.9.2	Tray for preventing electrolyte spillage	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	Р
	Instructional safeguard:	Р
N	ELECTROCHEMICAL POTENTIALS	N/A
N		IN/A
(/	Material(s) used:	
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Value of <i>X</i> (mm):	_
<u></u>		4
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	N/A
P.1	General	N/A
P.2	Safeguards against entry or consequences of entry of a foreign	N/A
P.2.1	General	N/A
P.2.2	Safeguards against entry of a foreign object	N/A
	Location and Dimensions (mm):	_
P.2.3	Safeguards against the consequences of entry of a foreign object	N/A
P.2.3.1	Safeguard requirements	N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	N/A
	Transportable equipment with metalized plastic parts:	N/A
P.2.3.2	Consequence of entry test:	N/A
P.3	Safeguards against spillage of internal liquids	_ N/A
P.3.1	General	N/A
P.3.2	Determination of spillage consequences	N/A



		Ropolition Ozorizi	
IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _C (°C):		
	Duration (weeks):		
		A .97	

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

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	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):	



		IEC 62368-1	- 3	
Clause	Requirement + Test	10 E	Result - Remark	Verdict
	Conditioning (C)	:	772	_
	Test flame according to IEC conditions as set out	C 60695-11-5 with		N/A
	- Material not consumed co	ompletely		N/A
	- Material extinguishes with	hin 30s		N/A
	- No burning of layer or wra	apping 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 complian	ice		N/A
	Mounting of samples	:		
	Wall thickness (mm)	:		
S.4	Flammability classification	on 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)			

Т	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
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
1.10	Olass fragilieritation test		



NT	EK北测		Report No. S231121008	04001
	A 2	IEC 62368-1	A 2	
Clause	Requirement + Test	300 4	Result - Remark	Verdict
	Number of particles counted	I:	No such glass provided.	N/A
T.11	Test for telescoping or roo	d antennas		N/A
	Torque value (Nm)	:	No such antennas provided.	N/A
U	MECHANICAL STRENGTH AGAINST THE EFFECTS C		BES (CRT) AND PROTECTION	N/A
U.1	General			N/A
	Instructional safeguard:			N/A
U.2	Test method and complian	nce for non-intrinsically	protected CRTs	N/A
U.3	Protective screen			N/A
<u> </u>	DETERMINATION OF ACC	PECCIPI E DADEC	+	NI/A
V	DETERMINATION OF ACC			N/A
V.1	Accessible parts of equipr	ment		N/A
V.1.1	General			N/A
V.1.2	Surfaces and openings teste probes	ea with jointea test		N/A
V.1.3	Openings tested with straigh	nt unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors test	ted with blunt probe		N/A
V.1.5	Slot openings tested with we	edge probe		N/A
V.1.6	Terminals tested with rigid to	est wire		N/A
V.2	Accessible part criterion			N/A
X	ALTERNATIVE METHOD F IN CIRCUITS CONNECTED (300 V RMS)		ARANCES FOR INSULATION EXCEEDING 420 V PEAK	N/A
	Clearance	:		N/A
Υ	CONSTRUCTION REQUIRE	EMENTS FOR OUTDOO	D ENCLOSURES	NI/A
Y.1	General CONSTRUCTION REQUIRE	EMENTS FOR OUTDOO	R ENCLOSURES	N/A N/A
Y.2	Resistance to UV radiation	1		N/A
Y.3	Resistance to corrosion			N/A
Y.3	Resistance to corrosion	<i>X</i> /	X 2	N/A
Y.3.1	Metallic parts of outdoor end effects of water-borne conta			N/A
Y.3.2	Test apparatus			N/A
Y.3.3	Water – saturated sulphur di	ioxide atmosphere		N/A
Y.3.4	Test procedure	:		N/A
Y.3.5	Compliance			N/A



Y.4 Y.4.1 Y.4.2	Requirement + Test Gaskets General Gasket tests	Result - Remark	Verdict N/A
Y.4.1	General	* 30	N/A
		7,0	!
Y.4.2	Gasket tests		N/A
			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	е	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	d	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	- 4	N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A



	W 70	IEC 62368-1	A 200	
Clause	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classificati	on of electrical	on of electrical energy sources						
Supply Voltage	Location (e.g.	Test conditions		Param		ES Class			
Voltage	designation)	Conditions	U (V)	I (mA)	Type ¹⁾	Additional Info 2)			
9VDC	Input circuit	Normal			<u> </u>		ES1		
X +		Abnormal:		Ø			4		
		Single fault:	7 - 4	1					
Fully	Battery pack	Normal	4.45VDC	1	_	₹ E	ES1		
charged battery	output	Abnormal:		- -		<u> </u>			
	4	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 volta	age measureme	nt		4.	N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Commer	nts
		<u> </u>		- ,_	- -	
Supplemen	ntary information:					
	V				<u> </u>	

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method: ISO 306 / B50					
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)		
1	10 F				
Supplementary information:					
76, 4	7,		AL		

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							N/A
Allowed impression diameter (mm) ≤ 2 mm							_
Object/Part No./Material Manufacturer/trademark Thickness (mm) Test Impress diameter							
			<u> </u>		7		
Supplement	ary information:						
. 4		10 H		لہ	- 4	3	٨ـ



	<u> </u>	IEC 62368-1	dt 300		
Clause	Requirement + Test		Result - Remark	4	Verdict

5.4.2, 5.4.3 TABLE: I	Minimum CI	earances/	/Creepag	e distance			5	N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
	· - <			-		,	<u> </u>	

Supplementary information:

- 1) Only for frequency above 30 kHz
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2 TABLE: Minimum distance through insulation							
Distance thre	ough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Measured DTI (mm)		
1	7/4		J 3				
Supplementa	ary information:						
		+ 3		<u>،</u>	.0-		

5.4.4.9	TABLE: Solid	l insulation at	frequencies	>30 kHz	. 4		N/A
Insulation n	naterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
	*			- *			
Supplement	tary information						
					X		

5.4.9	TABLE: Electric strength tests	*		N/A
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:				大
			- 4	
Basic/supple	ementary:		* 3	
		م ا ح		
Reinforced:	4, 4	140		
	20	7		4, 4
Routine Tes	ts:	<u>(i)</u>		
ملم	A	A 2		٠
Supplement	ary information:			
	4 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		



	, (T	IEC 62368-1	A 300	
Clause	Requirement + Test	A 2	Result - Remark	Verdict

5.5.2.2	TABLE:	Stored discharge of	n capac	citors		7	N/A		
Location		Supply voltage (V)	Operating and fault condition 1)		Switch position	Measured voltage (Vpk)	ES Class		
	.4	<u>↑</u> 4			L - St				
Supplementary information:									
X-capacitor:	s installed	for testing are:	140	, 4	•	1			
[] bleedin	g resistor	rating:							
[] ICX:									
Notes:									
A. Test Loc	ation:								
Phase to Ne	eutral; Ph	ase to Phase; Phase	to Earth	; and/or Neu	tral to Earth				
B. Operatin	g conditio	n abbreviations:							
N – Normal	operating	g condition (e.g., norn	nal oper	ation, or ope	n fuse); S –Singl	e fault condition	n		

5.6.6	5.6.6 TABLE: Resistance of protective conductors and terminations									
Location		Test current Duration (A) (min)		Voltage drop (V)	Resistance (Ω)					
	,	-		٠- ٦						
Suppleme	Supplementary information:									
			74,		<u>* </u>					

5.7.4	TABLE	E: Unearthed acces	ssible parts				N/A		
Location	Operating and fault conditions		Supply	F	ES				
			Voltage (V)	Voltage (V _{rms} or V _{pk})	Current Freq (A _{rms} or A _{pk}) (Hz)		class		
		7 -4		<u> </u>	<u> </u>				
Supplementary information:									
Abbreviatio	Abbreviation: SC= short circuit; OC= open circuit								

5.7.5	TABLE: Earthed access	ible conductive part	ble conductive part				
Supply voltage (V):		C+ 2		* 3			
Phase(s):		[] Single Phase; [] Three					
Power Dis	tribution System:	[] TN [] TT[] IT					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA) Comment		ent		
	<u> </u>	1	<i>-</i>				



		* 3**		IEC 62368	3-1	J 3 1		
Clause	Red	quirement + Te	est		3	Result - Remark		Verdict
		*		2*		,_	- V	4
L				3	لم			
				4		7		
			-0	5	7			3
			4	6	٠,		<u> </u>	•
4	4	4		8				1

Supplementary Information:

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

5.8	TABLE:	Backfeed sa	afeguard in battery l	oacked up s	upplies	L 4	N	/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)		
<i>□</i>			X S			🔏	*	
Supplement	tary inforn	nation:						
Abbreviation	n: SC= sh	ort circuit, O	C= open circuit	٨	()			

6.2.2	ABLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class		
Battery cell output	Normal	2.29	26.1	58.99	5	PS2		

Supplementary 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: Determi	nation of Arcing PIS	4		N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
	Æ	7_	0	4	
Supplement	tary information:				
	. 7	J 3	4	1 8	



			3		
	, (T)	IEC 62368-1	ct 31		
Clause	Requirement + Te	st	Result - Remark	Verdict	
6.2.3.2	TABLE: Determi	nation of resistive PIS		Р	
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No	
Battery cell		*	>15	Yes	
Supplemen	tary information:				
Abbreviation	n: SC= short circuit	; OC= open circuit	F 160 4		

8.5.5	TABLE: High pre	essure lamp		4 4	N/A				
Lamp manufacturer		Lamp type	Explosion method Longest axis of glass particle (mm)		Particle found beyond 1 m Yes / No				
		# 3			<u> </u>				
Supplementary information:									
<i>*</i>	3	4	10 A		•				

9.6	TABLE	: Tempera	ture meas	urements	for wireles	ss power t	ransmitter	s	N/A
Supply volta	age (V)			:	*		2		_
Max. transm	Max. transmit power of transmitter (W):								_
					eiver and contact	with receiver and at distance of 2 mm		with receiver and a distance of 5 mm	
Foreign o	bjects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
			4	7			-	4.	
Supplementary information:									

					4	
5.4.1.4,	TABLE: Temperature measurem	ents				Р
9.3, B.1.5, B.2.6						
Supply volta	age (V):	Α	В	С	() <u>+</u>	_
Ambient ten	nperature during test T_{amb} (°C):	See below	See below	See below		_
Maximum m	neasured temperature <i>T</i> of part/at:		Т (°C)		Allowed T _{max} (°C)
PCB near U	1100	51.5	50.6	56.7		130
PCB near U	11901	56.5	52.2	53.9		130
PCB near U	1200 bottom	67.6	60.5	58.6		130
power line	* ~	57.2	46.9	50.5	👇	Ref.



						rtoport rto.	02011210	0001001
			IE	C 62368-1	4			
Clause	Requirement + T	est			Resi	ult - Remark		Verdict
Battery su	ırface		,	49.1	38.3	50.1		Ref.
Plastic en	closure	4		50.2	40.8	54.9		Ref.
Ambient		4		40.0	40.0	40.0		🗸
Accessib	le part							4
Power but	tton	4		28.4	32.9	36.6	22	48
Plastic en	closure inside near	TYPE-C		37.5	47.8	35.2		Ref.
Button		٨_		28.8	33.6	34.1	7-	48
Screen	٨_	140	4	25.8	25.5	36.5	- C-	48
Adapter s	urface			53.5	53.7			77
Ambient	7			25.0	25.0	25.0		
Temperat	ure T of winding:	t ₁ (°C)	$R_1 (\Omega)$) t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T_{max} (°C)	Insulation class
				- -Ø				
0 1	stan Catanasa Cas					•	•	

Supplementary information:

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

- A: Off mode, charged an empty battery by 9.0Vdc AC adapter .
- B: On mode, charging fully discharged battery by 9.0Vdc AC adapter, WiFi connected, playing three vertical bar, max sound, max brightness .
- C: On mode supplied by 4.45V fully charged battery, WiFi connected, playing three vertical bar, max sound, max brightness.

B.2.5	TAE	DI Er Inni	ut toot	7 6			L		Р
D.Z.3	IAI	BLE: Inpu	it test					2	
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditio	n/status
9Vdc		1.83	2.22		X-			Condition	Α
			A				4	Battery cu	ırrent:
		~		4			*	2.86A	
5Vdc		1.82	3.0	13.87	, ()			Condition	В
					4			Battery cu	ırrent:
4				A.	·	*		1.76A	
4.45V	,	1.97	C		,			Condition	С
(Dischar		· •						Battery cu	ırrent:
ge)					4,		*	1.97A	
Suppleme	ntary i	nformatio	n:						



	. C _ Z Z	IEC 62368-1	4 5	
Clause	Requirement + Test		Result - Remark	Verdict

Condition A: Off mode, charged an empty battery by 9.0Vdc 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 4.45V fully charged battery, WiFi connected, playing three vertical bar, max sound, max brightness.

Ambient tempera	ature T _{amb} (°0	C)		:	See below		
Power source for	· EUT: Manu	ıfacturer, mod	del/type, out	putrating:		, (7)	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observati	on
Empty battery Or	nly charge.	太					大
U1200BpinG1- A1	SC	9VDC	10mins	S. E. T.	A. Carrier	unit shut down, recoverable. No cono hazards. Batter no leaks, no explo Battery current:2	ery no fire, osion
Discharging with	full charged	battery				A 2	
Type-c output	sc	Fully battery	10mins	- - -		Type-C output sh and other function operating as norm damage, no haza Battery no fire, no explosion. Battery current: 1.971A→1.483A	n nally, no irds.
U1200BpinG1- F1	SC	Fully battery	10mins			Unit working as r after short circuit damaged, no haz Battery current: 1	, no zards.
U1701pin20-3	sc	Fully battery	10mins	Filit Filit	4. Cot	Speaker shut doverecoverable, no cono hazards. Battery current: 1.923A→2.365A	
Speaker	sc	Fully battery	10mins		ALIENT .	Speaker shut dov recoverable, no cono hazards. Battery current: 1.971A→1.482A	
Supplementary ir	nformation:						
1. SC=Short circ	uit, OL=Ove	r Load					

M.3		TABLE: Protection circuits for batteries provided within the equipment		Р	
-----	--	--	--	---	--



7	.0 3			IEC 623	368-1	+				
Clause	Requirement	+ Test			R	esult - Re	mark	(Verdict
Is it possible	to install the	battery in a rev	/ers	e polarity p	oosition?:		<u> </u>		110	
					Charg	ging				
Equipment S	pecification		Vc	oltage (V)				Curr	ent (A)	
				9				2	2.2	3
					Battery spe	cification				
		Non-recharge	able	batteries		Rechar	geab	le bat	teries	
Manufacturer/type		Discharging		intentional	Cha	rging		Discharging		Reverse
		current (A) charging current (A)		Voltage (V)	Current (A)		current (A)		charging current (A)	
	Shenzhenshi jiuliyuan				4.45	4.5			4.5	
electronic tec co.,LTD./ WP		4			4				_	
Note: The tes	ts of M.3.2 a	re applicable o	nly v	when above	e appropriate	data is no	t ava	ailable).	
Specified bat	tery tempera	ture (°C)			:	5-45			7	
Component No.	Fault condition	Charge/ discharge mo	de	Test time	Temp. (°C)	Current (A)		tage V)	Obs	ervation
ot 4º	Normal	Charge		2hr 03min	Battery cell surface: 30.1°C max. Ambient: 25°C	2.86	4.4 c M	5Vd ax.	NL, NS	, NE, NF
U1200Bpin G1-A1	sc	Charge	Charge		Battery cell surface: 30.1°C max. Ambient: 25°C	0	4.45 c M	5Vd ax.	NL, NS, NE, NF	
A COLOR	Normal	Discharge		2hr 03min	Battery cell surface: 30.1°C max. Ambient: 25°C	1.97	4.4 c M	5Vd ax.	NL, NS	, NE, NF
Supplementa	ry information	า:								
Abbreviation:									☆	4
		en circuit NL= or expulsion c				no spillag	e of	liquid	; NE= no	explosion;
<i>*</i>	3					7				

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium	Р	
	battery		



arging current	t (A) ture (°C) ure (°C)	Measurement Charging current (A) 2.549	.: 4.5 .: 45 .: 5	Observation	Verdic — — — — — — — — — — — — — — — — — — —
arging current ging temperate ging temperate Operating and fault condition	ture (°C)ure (°C)	Measurement Charging current (A)	.: 4.5 .: 45 .: 5	Observation	— — on
ging temperate	ture (°C) ure (°C) Charging voltage (V)	Measurement Charging current (A)	.: 45 .: 5	Observation	on
Operating and fault condition	ure (°C) Charging voltage (V)	Measurement Charging current (A)	.: 5 Temp.	Observation	on
Operating and fault condition	Charging voltage (V)	Measurement Charging current (A)	Temp.	Observation	on
and fault condition	Charging voltage (V)	Charging current (A)	Temp.	Observation	on
condition Normal	voltage (V)	current (A)			
	4.45	2 5/10			
4		2.049	Battery cell surface: 30.1 °C max.	NL, NS, NE,	NF
J1200BpinG -A1 SC	4.45	0	Battery cell surface: 30.1 °C max.	NL, NS, NE,	NF
ISCT	4.45	0	Battery cell surface: 53.5°C.	NL, NS, NE,	, NF
SCT	4.45	0	Battery cell surface: 0°C	NL, NS, NE,	, NF
H	SCT	SCT 4.45 SCT 4.45	SCT 4.45 0 SCT 4.45 0	1200BpinG -A1 SC 4.45 0 Battery cell surface: 30.1 °C max. SCT 4.45 0 Battery cell surface: 53.5 °C. SCT 4.45 0 Battery cell surface: 53.5 °C. SCT 4.45 0 Battery cell surface: 0 °C	1200BpinG -A1 SC 4.45 0 Battery cell surface: 30.1 °C max. NL, NS, NE, NE, NL, NS, NL,

Abbreviation:

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

Q.1	TABLE: Circuits inter	ABLE: Circuits intended for interconnection with building wiring (LPS) N/A									
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc}	(A)	S (\	/A)				
Circuit	Condition	O _{oc} (V)	111116 (3)	Meas.	Limit	Meas.	Limit				
7				<i></i> 5			**				
Supplement	Supplementary Information:										
					<i>*</i> .	7,					

T.2, T.3, T.4, T.5	TABLE	E: Steady force te	st		*	4	P
Location/Par	rt	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Top of enclo	sure	Glass	See table 4.1.2		100	5	No damaged, no hazard



		3	IEC 62	368-1	<i>A</i>	2	
Clause	Require	ement + Test			Result - Re	emark	Verdict
Side of enclos	sure	Plastic	See table 4.1.2		100	5	No damaged, no hazard
Bottom of enclosure		Plastic	See table 4.1.2		100	5	No damaged, no hazard
Supplementa	ry infor	mation:					
		A	2, 4	-		L	

T.6, T.9 TABLE: Imp	act test	10 4.		N/A	
Location/Part	Material	Thickness (mm)	Height (mm)	Observation	
.d ₹		L X	V		
Supplementary information:					
A	700 A		*	740 4	

T.7	TABLE: Dro	p test	+ 3		Р
Location/Par	rt	Material	Thickness (mm)	Height (mm)	Observation
Top of enclo	sure	Glass	See table 4.1.2	1000	No damaged, no hazard
Side of enclo	sure	Plastic	See table 4.1.2	1000	No damaged, no hazard
Bottom of en	nclosure	Plastic	See table 4.1.2	1000	No damaged, no hazard
Supplementa	ary informatior	ո:			
				W 4	<i>→ →</i>

T.8	TABLE	: Stress relief to			Р		
Location/Pa	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation
Enclosure		Plastic	See table 4.1.2	70	7	No dama	
Supplementary information:							
	4			3			

Х	TABLE: Alternative method for determining minimum clearances distances N/A					
Clearance of between:	distanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm		
		Z'		<u> </u>		
Supplemen	tary information:					
*					+	



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

4.1.2	TABLE: Critical com	ponents informati	on	<u> </u>	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Plastic Enclosure	interchangeable	interchangeable	80°C, V-0, 0.8mm thickness Min.	UL 94	UL A
PCB	interchangeable	interchangeable	V-2, 80°C	UL 746	UL
Li-Battery	Shenzhenshi jiuliyuan electronic technology co.,LTD.	WP36	3.87V, 10600mAh, 44.022Wh	IEC 62133-2: 2017+A1:2021	Report: RSZBHST23 11221991
LCD module	Shenzhen Digital Technology Co., Ltd.	Y89452	Module Size (W*H*T): 74.16mm*164.46 mm	EN IEC 62368-1: 2020+A11: 2020	Tested with appliance
LED	LatticePower(Jian gxi) corporation	FE02B	350mA	IEC 62471:2006	Report: SHES220801 545971
Speaker	Shenzhen Innovation Starting Point Electronics Co., Ltd.	SPEAKER BOX	4.0Ω±15%ohm, 3.46V Max 5.0W	EN IEC 62368-1: 2020+A11: 2020	Tested with appliance
Motor	XinNing JX Electronics CO., LTD.	JXC0827- 03P01L8	DC3.0V,80mA MAX,12000± 3000rpm	EN IEC 62368-1: 2020+A11: 2020	Test with appliance
POWER 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 No.: ATSL220815 311

Supplementary information:

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



	IEC62368_1E - ATTACHMENT				
Clause	Requirement + Test		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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	CENELEC COMMON MODIFICATIONS (EN)	Р
At .	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. Clauses, subclauses, notes, tables, figures and annexes which are additional to	Р
	those in IEC 62368-1:2018 are prefixed "Z". Add the following annexes:	P
	Annex ZA (normative) Normative references to international publications with their corresponding European publications	'
	Annex ZB (normative) Special national conditions	
	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.	
	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.	



	IEC	62368_1E - ATTACHME	ENT	
Clause	Requirement + Test	. P. P.	Result - Remark	Verdict
3.3.19.3	sound exposure, E		4	N/A
et «	A-weighted sound pressure (integrated over a stated period		410 7	4
	Note 1 to entry: The SI unit is Pa ² s.		at white	4
3,0	$E = \int_{0}^{\infty} p(t)^{2} dt$		410	.ct
3.3.19.4	sound exposure level, SEL	4.	* 4	N/A
S. C.	logarithmic measure of sound reference value, E_0 , typically threshold of hearing in huma	the 1 kHz	71. F.	4
	Note 1 to entry: SEL is measured as	s A-weighted levels in dB.	HOT AND AND	7 4
S.C.	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$		7	
4	Note 2 to entry: See B.4 of EN 5033 information.			
3.3.19.5	digital signal level relative	to full scale, dBFS	<u>A</u>	N/A
- 4515	levels reported in dBFS are a level, 0 dBFS, is the level of Hz sine wave whose undithe is positive digital full scale, le corresponding to negative di	a dc-free 997- red positive peak value aving the code	- 41/10t A.	Zi ^{rk}
, et	Note 1 to entry: It is invalid to use dl Because the definition of full scale is level of signals with a crest factor lo may exceed 0 dBFS. In particular, s reach +3,01 dBFS.	s based on a sine wave, the wer than that of a sine wave		C.C.
2	Modification to Clause 10			
10.6	Safeguards against acousti			Р
	Replace 10.6 of IEC 62368-1 Introduction	with the following:	·	
10.6.1.1	Introduction			P
sint.	Safeguard requirements for long-term exposure to exces levels from personal music p to the ear are specified below for earphones and headphor with personal music players. A personal music player is a	sive sound pressure layers closely coupled v. Requirements les intended for use lare also covered. portable equipment	AND AND A	at a
et s	 intended for use by an ordin is designed to allow the us audiovisual content / materia uses a listening device, su 	ser to listen to audio or l; and		



IEC62368_1E - ATTACHMENT					
Clause	Requirement + Test	10	~	Result - Remark	Verdict
	earphones that can be worn i	n or on or		1 3	
	around the ears; and				•
	- has a player that can be bo	odv worn (of a siz	e 🎝		
	suitable to be carried in a clot				
	is intended for the user to wa				
	continuous use (for example,				
	in a subway, at an airport, etc			AL	
	,,	,.			
	EXAMPLES Portable CD players, M phones with MP3 type features, PDA			4	at-
	Personal music players shall	comply with the			
				* *	
	requirements of either 10.6.2	01 10.6.3.			·
	NOTE 1 Protection against acoustic	eneray sources from		2,	
	telecom applications is referenced to	ITU-T P.360.		٠ -	
	NOTE 2 It is the intention of the Com				
	alternative methods for now, but to o measurement method as given in 10		re	* *	
	manufacturers are encouraged to im				
	possible.			4	
		A			
	Listening devices sold separa	ately shall comply	with		At 1
	the requirements of 10.6.6.			1 4	
	These requirements are valid	for music or vide	0		
	mode only.				
	The requirements do not app	ly to:			
	professional equipment;				
	NOTE 3 Professional equipment is e		า		
	special sales channels. All products		:1		
	normal electronics stores are considerate equipment.	ered not to be profess	ionai		
	equipment.				
	- hearing aid equipment and	other devices for		1	(A) C
	assistive listening;	other devices for			
	the following type of analog	ue nersonal musi	C		
	players:	de personal mus	C		
	long distance radio receiver	(for example a			
	multiband radio receiver or w				F 3
	receiver, an AM radio receivecassette player/recorder;	ii), aiiu			
	• casselle playel/recorder,				
	NOTE 4 This exemption has been al	lowed because this		7	
	technology is falling out of use and it	is expected that		.1	
	within a few years it will no longer ex	ist. This exemption w	II not		3
	be extended to other technologies.			A	
	- a player while connected to	an external amn	lifier		
	that does not allow the user to				4
	while in use.	o wan around			
	Willio III doc.			<u>, (</u>	
	For equipment that is clearly	designed or inten	dod		4
			ueu	A- 45	*
	primarily for use by children,				
	relevant toy standards may a	ppiy.			4
	42			>	
	The relevant requirements ar			4	
	EN 71-1:2011, 4.20 and the r		ods		4 4
	and measurement distances	apply			



		EC62368_1E - ATTA		1
Clause	Requirement + Test		Result - Rema	rk Verdict
10.6.1.2	Non-ionizing radiation for the range 0 to 300 GHz	rom radio frequencie	es in	N/A
	The amount of non-ionizir European Council Recom of 12 July 1999 on the lim general public to electrom GHz).	mendation 1999/519/ itation of exposure of	EC the	ALIENT ALIENT
A.C.	For intentional radiators, I be taken into account for Time-Varying Electric, Ma Electromagnetic Fields (u held and body mounted do to EN 50360 and EN 5056	Limiting Exposure to ignetic, and p to 300 GHz). For ha evices, attention is dra	nd-	with with
10.6.2	Classification of devices	s without the capacit	y to estimate sound	d dose N/A
10.6.2.1	General	4		N/A
	This standard is transition based (30 s) requirements hour) requirements. These only for devices that do not dose estimation as stipular	s to long-term based (e clauses remain in el ot comply with sound		et stet
	For classifying the acoust measurements are based equivalent sound pressure	on the A-weighted	riod.	45.ET
	For music where the average term $LAeq, \tau$) measured over song is lower than the average programme simulation no be done over the duration this case, T becomes the	er the duration of the erage produced by the ise, measurements m of the complete song	ay	Airlit Air
	NOTE Classical music, acoustic has an average sound pressure much lower than the average prompted the player is capable compare it with the programmes does not need to be given as lor	(long term LAeq, 7) which is ogramme simulation noise. le to analyse the content ar simulation noise, the warning as the average sound	ad L	Arith Arith
Air Contract of the Contract o	pressure of the song does not ex- For example, if the player is set noise to 85 dB, but the average 65 dB, there is no need to give a acknowledgement as long as the song is not above the basic limit	with the programme simula music level of the song is on warning or ask an e average sound level of the of 85 dB.	nly	THEFT THEFT
10.6.2.2	RS1 limits (to be supers	eaed, see 10.6.3.2)	4	N/A
	RS1 is a class 1 acoustic not exceed the following: – for equipment provided its listening device), and v connector between the pla	as a package (player vith a proprietary ayer and its listening	4	
	device, or where the combistening device is known setting or automatic detections.	oination of player and by other means such		* 41.6° C+



-		C62368_1E - ATTAC		1
Clause	Requirement + Test		Result - Remark	Verdict
* *	output shall be ≤ 85 dB wh "programme simulation no 50332-1. — for equipment provided v	ise" described in EN	.a- zia+	4
	connector (for example, a allows connection to a liste use, the unweighted r.m.s. ≤ 27 mV (analogue interface) when playing the simulation noise" described	3,5 phone jack) that ening device for general output voltage shall been or -25 dBFS (digitate fixed "programme")	e	
4	- The RS1 limits will be up per 10.6.3.2.	dated for all devices a	s	7
10.6.2.3	RS2 limits (to be superse	eded, see 10.6.3.3)	F 4. 4	N/A
	RS2 is a class 2 acoustic of not exceed the following: – for equipment provided a its listening device), and w connector between the pla	as a package (player w ith a proprietary		F AND F
	device, or when the combination listening device is known be setting or automatic 130 de acoustic output shall be set the fixed "programme simuldescribed in EN 50332-1.	nation of player and by other means such a etection, the $L_{Aeq,T}$ 100 dB(A) when playin	L 4	ALE .
	 for equipment provided v connector (for example, a allows connection to a liste use, the unweighted r.m.s. ≤ 150 mV (analogue interfa interface) when playing the simulation noise" as descri 	3,5 phone jack) that ening device for general output voltage shall bace) or -10 dBFS (digite fixed "programme	e L	
0.6.2.4	RS3 limits		140	N/A
N.C.	RS3 is a class 3 acoustic exceeds RS2 limits.	energy source that	+	* 3
0.6.3	Classification of devices	(new)		N/A
10.6.3.1	General		F (%)	N/A
	Previous limits (10.6.2) cre negative and false positive warnings. New limits, com Commission Decision of 23 below.	PMP sound level plant with The		
10.6.3.2	RS1 limits (new)		~	N/A
	RS1 is a class 1 acoustic of not exceed the following: – for equipment provided with its listening device), as	as a package (player	es Link	
	connector between the pla device, or where the comb listening device is known b	yer and its listening ination of player and		



	7, 5, E	C62368_1E - ATTACHN	MENI	,
Clause	Requirement + Test		Result - Remark	Verdict
* 41	setting or automatic detect output shall be ≤ 80 dB wh "programme simulation no 50332-1. — for equipment provided we connector (for example, a allows connection to a lister use, the unweighted r.m.s. ≤ 15 mV (analogue interface interface) when playing the simulation noise" described	with a standardized 3,5 phone jack) that ening device for general output voltage shall be ce) or -30 dBFS (digital e fixed "programme"	et grieft grieft	
10.6.3.3	RS2 limits (new)	<u> </u>	A .	N/A
	RS2 is a class 2 acoustic of not exceed the following: — for equipment provided a its listening device), and w connector between the plate device, or where the combilistening device is known be setting or automatic detect exposure level, as describeded ≥ 80 dB when playing the simulation noise describeded a listening device is known be a setting or automatic detect exposure level, as describeded as allows connection to a listen use, the unweighted r.m.s. over one week, as describeded to the unweighted r.m.s. over one week, as describeded interface) when platen programme simulation no 50332-1.	as a package (player with ith a proprietary eyer and its listening sination of player and by other means such as sion, the weekly sound ed in EN 50332-3, shall he fixed "programme d in EN 50332-1. with a standardized 3,5 phone jack) that ening device for general output level, integrated ed in EN50332-3, shall erface) or -30 dBFS ying the fixed in EN		
10.6.4	Requirements for maxim	um sound exposure		Р
10.6.4.1	Measurement methods All volume controls shall be during tests. Measurements shall be ma EN 50332-1 or EN 50332-1	ade in accordance with	Ariest Ariest	PO
10.6.4.2	Protection of persons Except as given below, proparts accessible to ordina persons and skilled pers NOTE 1 Volume control is not co	otection requirements for ary persons, instructed ons are given in 4.3.		P
	Between RS2 and an ordi safeguard may be replace safeguard in accordance that the instructional safe on the equipment, or on the instruction manual. Alternatively, the instructional	nary person, the basic ed by an instructional with Clause F.5, except eguard shall be placed e packaging, or in the	st of	



▼	A A IE	C62368_1E - ATTAC	HMENT	1
Clause	Requirement + Test		Result - Remark	Verdict
	given through the equipme	ent display during use.		. O
	The elements of the instru be as follows:	ictional safeguard sh	all	<u></u>
	be as follows.			
		(1)9) 150 00447 00		
	element 1a: the symbol (2011-01)	/ " , IEC 60417-604	14	
	- element 2: "High sound	oressure" or equivalen		
	wording	procedure of equivalent		X
	- element 3: "Hearing dan	nage risk" or equivalen	t	
	wording	4	. + .	
	- element 4: "Do not listen		for	•
	long periods." or equivaler	nt wording	4, 4,	
	An equipment safeguard	shall prevent exposure	e	
	of an ordinary person to			
	intentional physical action		* *	
	person and shall automat		ut	
	level not exceeding what i		-	
	source when the power is	switched off.		
	The equipment shall provi	de a means to actively	, .C	
	inform the user of the incre			
	the equipment is operated			
	exceeding RS1. Any mear			A
	acknowledged by the user			
	mode of operation which a			4
	exceeding RS1. The acknowledge need to be repeated more			· ·
	cumulative listening time.	than once every 20 m	51	
	and the second s			
	NOTE 2 Examples of means incl Action from the user is always no			
	NOTE 3 The 20 h listening time i			ما
	time, independent of how often a music player has been switched			
	11.7			大 4)
	A skilled person shall not	be unintentionally	*	
40.05	exposed to RS3.			N1/A
10.6.5	Requirements for dose-l	based systems	7	N/A
10.6.5.1	General requirements		لم	N/A
	Personal music players sh	all give the warnings a	s	
	provided below when teste			
	50332-3, using the limits for	om this clause.		4
	3, 4,			
	The manufacturer may off		, L	
	allow the users to modify to			
	to receive the notifications a better user experience w		ole	
	safeguards. This allows th		in	
	a method that best meets			F
	and device usage needs.			
	are offered, an administrat			-2



Clause	Requirement + Test		-	Result - Remark	Verdict
	restrictions, business/edu				
	etc.) shall be able to lock	any optional settings i	nto		
	a specific configuration.				
	The personal music playe	r chall be cupplied wit	h		.()
	easy to understand explar				
	dose management system				
	how to use the system sat				
	made aware that other so				
	contribute to their sound e				
	work, transportation, cond	erts, clubs, cinema, c	ar		
10.6.5.2	races, etc. Dose-based warning and	d requirements	4		N1/A
0.0.3.2	Dose-based warning and	a requirements			N/A
	When a dose of 100 % CS	SD is reached, and at			
	least at every 100 % furth		ie		
	device shall warn the user				
	acknowledgement. In case				
	acknowledge, the output l		ly		
	decrease to compliance w	illi Class RST.			
	The warning shall at least	clearly indicate that			A
	listening above 100 % CS				
	hearing damage or loss.	4			
10.6.5.3	Exposure-based require	ments	•		N/A
	With only does boood roa	uiromanta, aquaa and			
	With only dose-based req effect could be far separate				
	purpose of educating user				
	practice. In addition to dos				
	PMP shall therefore also				
	term sound level a user ca	an listen at.			
	The expedire based limit	or (EL) aball automatic	برالود		
	The exposure-based limite reduce the sound level no				
	150 mV integrated over the	` ,			
	methodology defined in El				
	The EL settling time (time				
	reduction to reaching targ	et output) shall be 10	s or		
	faster.		*		
	Test of EL functionality is	conducted according	to		
	EN 50332-3, using the lim				
	equipment provided as a				
	listening device), the level	integrated over 180 s	;		
	shall be 100 dB or lower.				L
	with a standardized conne				
	integrated over 180 s shall for an analogue interface				3
	dBFS for a digital interface				
	NOTE In case the source is known	wn not to be music (or test			4



Clause	Doguiroment L Test		Result - Remark	Vordict
Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict
10.6.6.1	Corded listening devices with an With 94 dB LAeq acoustic pressure			N/A
	listening device, and with the volum settings in the listening device (for volume level control, additional sou equalization, etc.) set to the combin positions that maximize the measure	ne and sound example, built-in and features like nation of red acoustic	A Ariest	A. C.
	output, the input voltage of the liste when playing the fixed "programme noise" as described in EN 50332-1 mV.	simulation	4.	A.C.
	NOTE The values of 94 dB and 75 mV correand 27 mV or 100 dB and 150 mV.	espond with 85 dB	4100 410	
10.6.6.2	Corded listening devices with di	gital input	*	N/A
	With any playing device playing the "programme simulation noise" descion 50332-1, and with the volume and	cribed in EN sound settings in	Affect Affect Aff	
	the listening device (for example, b level control, additional sound featu equalization, etc.) set to the combir positions that maximize the measure	ures like nation of	at at sale	
et .	output, the LAeq, racoustic output of device shall be ≤ 100 dB with an indBFS.	f the listening		+ <
10.6.6.3	Cordless listening devices		7	N/A
	In cordless mode,			
	 with any playing and transmitting the fixed programme simulation no EN 50332-1; and respecting the cordless transmiss 	ise described in sion standards,		4
	where an air interface standard exist the equivalent acoustic level; and — with volume and sound settings in device (for example, built-in volume additional sound features like equal	n the receiving e level control, lization, etc.) set	at with	4
A.C.	to the combination of positions that measured acoustic output for the a programme simulation noise, the <i>L</i> output of the listening device shall I an input signal of -10 dBFS.	bove mentioned Aeq, $ au$ acoustic		YICH
10.6.6.4	Measurement method		\(\frac{1}{2}\) \(\frac{1}{2}\)	N/A
	Measurements shall be made in ac EN 50332-2 as applicable.	ccordance with	4	
3	Modification to the whole docum	ent		N/A



			IEC	C62368_1E	- ATTACHME	NT		
Clause	R	equirement -	+ Test			Result - Rem	ark	Verdict
L		elete all the	"country" note	es in the refe	erence docume	ent according	to the following	N/A
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	4
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
		Table 13						
		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	* ·
	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	
	4	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
		Y.4.5	Note					
1			1- 01 4	1			<u> </u>	
		lodification			, , ,			Р
	N el		wing note: e of certain subst nent is restricted v					P



		A Z	IEC62368_1E - ATTACHME	ENT	
1	Clause	Requirement + Test	70 5	Result - Remark	Verdict

5	Modification to 4.Z1	N/A
4.Z1		
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): 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; 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; 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 pluggable equipment type A 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 eigenviews in EN 50404 3:2000	N/A
7	circuit is in addition given in EN 50491-3:2009.	NI/A
	Modification to 10.2.1	N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	N/A



		IEC62368_1E - ATTACHME	ENT	
Clause	Requirement + Test	10 4	Result - Remark	Verdict

8	Modification to 10.5.1	N/A
8 10.5.1	Modification to 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 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.	N/A N/A
	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 May 1996.	Zi ^{ck}
9	Modification to G.7.1	N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	N/A



		IEC62368_1E - ATTACHME	:NT	
Clause	Requirement + Test		Result - Remark	Verdict

10	Modification to Bibliography	N/A
/- /	Add the following notes for the standards indicated:	N/A
		*
	IEC 60130-9 NOTE Harmonized as EN 60130-9.	
	IEC 60269-2 NOTE Harmonized as HD 60269-2.	
	IEC 60309-1 NOTE Harmonized as EN 60309-1.	
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.	
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	۸ـــ
	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.	4
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	Y ~
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	
	IEC 61643-321 NOTE Harmonized as EN 61643-321.	
	IEC 61643-331 NOTE Harmonized as EN 61643-331.	کے ا
11	ADDITION OF ANNEXES	N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
4.1.15	Denmark, Finland, Norway and Sweden	N/A
	To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	Zirich Ot
	The marking text in the applicable countries shall be as follows: In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway : "Apparatet må tilkoples jordet	A STEEL
	stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag"	



		C62368_1E - ATTA	СНМЕ	NT	
Clause	Requirement + Test		4	Result - Remark	Verdict
4.7.3	United Kingdom			* 3	N/A
	To the end of the subclaus	se the following is ac	lded:		ال م
4	The torque test is performed complying with BS 1363, and assessed to the relevant of see Annex G.4.2 of this are	and the plug part sha lauses of BS 1363.	all be		4100
5.2.2.2	Denmark	*		4	N/A
	After the 2nd paragraph ac	dd the following:		4	2(0)
	A warning (marking safegorurrent is required if the to limits of 3,5 mA a.c. or 10	uch current exceeds	the	Age Age	
5.4.11.1	Finland and Sweden				N/A
and Annex G	To the end of the subclaus	se the following is ac	lded:	int and an	
	For separation of the telectrom earth the following is		ork	4	- 5
	If this insulation is solid, in part of a component, it sha consist of either		rming	silit silit silil	
	two layers of thin sheet shall pass the electric s			A STATE OF THE STA	
	one layer having a distated at least 0,4 mm, which strength test below.				
	If this insulation forms part component (e.g. an optoco distance through insulation	oupler), there is no		Filt Fil	A-
	insulation consisting of an completely filling the casin creepage distances do no passes the electric strengt the compliance clause bel	g, so that clearance t exist, if the compor h test in accordance	s and ent	with with	4
	passes the tests and inswith an electric strength by 1,6 (the electric strenger performed using 1,5 kV)	test of 1,5 kV multip gth test of 5.4.9 sha	lied	net wint	Zielle .
	and			7	
	is subject to routine tes during manufacturing, u kV.			Aut Stat S	
	It is permitted to bridge thi capacitor complying with E subclass Y2.				* *



Clause		62368_1E - ATTACHN		\
Clause	Requirement + Test		Result - Remark	Verdict
* 4°	A capacitor classified Y3 acc 14:2005, may bridge this ins the following conditions: • the insulation requirement	ulation under		
	having a capacitor classif EN 60384-14, which in ac is tested with an impulse 5.4.11;	fied Y3 as defined by ddition to the Y3 testing		
	 the additional testing shal the test specimens as de 14; 		THEFT THEFT	
4	the impulse test of 2,5 kV is the endurance test in EN 600 sequence of tests as describ	384-14, in the	At Sittle	~**
5.5.2.1	Norway		2	N/A
	After the 3rd paragraph the f	following is added:		*
	Due to the IT power system required to be rated for the a voltage (230 V).		with white	
5.5.6	Finland, Norway and Swed	en		N/A
	To the end of the subclause	the following is added:	*	4
	Resistors used as basic saft basic insulation in class I partype A shall comply with G.1 G.10.2.	oluggable equipment		ich zi
5.6.1	Denmark		7	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	ations where the socker in fuses ating of the socket- ggable		+ 4
	equipment type A shall be an equipment. Justification:	n integral part of the		300
	In Denmark an existing 13 A protected by a 20 A fuse.	socket outlet can be		
5.6.4.2.1	Ireland and United Kingdo	m	7	N/A
	After the indent for pluggab l the following is added: – the protective current rat this being the largest rating of mains plug.	ing is taken to be 13 A	HELL WHEET	



				ENT	
Clause	Requirement + Test		\rightarrow	Result - Remark	Verdict
5.6.4.2.1	France				N/A
	After the indent for pluggabl	e equipment type	Α,		
	the following is added:				6
7	 in certain cases, the protect the circuit supplied from the instead of 16 A. 			4	
5.6.5.1	To the second paragraph the	following is added			N/A
	The range of conductor sizes	of flovible cords to	ho	7	*
	accepted by terminals for eq				
	current over 10 A and up to a			A .C	
	1,25 mm ² to 1,5 mm ² in cross				, in the second
5.6.8	Norway	→		4. ,	N/A
	To the end of the subclause	the following is add	led:	**	
	Equipment connected with a	n earthed mains plu	ug is		
	classified as class I equipm				
	marking requirement in 4.1.1				
	60417-6092, as specified in I	3.6.2, is accepted	1.		
5.7.6	Denmark				N/A
	To the end of the subclause	the following is add	led:	at at s	
	The installation instruction sh	nall be affixed to the)	7, 4,	
	equipment if the protective				
	exceeds the limits of 3,5 mA	a.c. or 10 mA d.c.			
5.7.6.2	Denmark			4	N/A
	To the end of the subclause	the following is add	led:	- 49	
	The warning (marking safegu				
	current is required if the touc		7		7 -
	protective current exceed the	e limits of 3,5 mA.		<u> </u>	
5.7.7.1	Norway and Sweden				N/A
	To the end of the subclause	the following is add	led:		
	The screen of the television of				
	normally not earthed at the e		ling	4	
	and there is normally no equ	ipotential bonding			
	system within the building. Therefore the protective eart	hing of the building		4	4
	installation needs to be isolated				
	a cable distribution system.	ماد			
	It is however accepted to pro	wide the inculation		\(\frac{1}{2}\)	
	external to the equipment by		,		4
	interconnection cable with ga		ch		
	may be provided by a retailer			4	
	The user manual shall then h		r	1 4 5 m	
	similar information in Norweg				4
	language respectively, deper country the equipment is inte		. 5		
	Country the equipment is little	maca to be asea III	•	(<u> </u>	
	"Apparatus connected to the		- 4		



	IEC	C62368_1E - ATTACHM	IENT	
Clause	Requirement + Test		Result - Remark	Verdict
y Ariet	the building installation throuconnection or through other connection to protective eart and to a television distribution cable, may in some circumst hazard. Connection to a telesystem therefore has to be providing electrical is frequency range (galvanic is 11)" NOTE In Norway, due to regulation Sweden, a galvanic isolator shall problem 5 MHz. The insulation shall wor 1,5 kV r.m.s., 50 Hz or 60 Hz, for	apparatus with a thing — on system using coaxial tances create a fire evision distribution provided through a colation below a certain colator, see EN 60728- for CATV-installations, and i rovide electrical insulation withstand a dielectric strength		
	Translation to Norwegian (the beaccepted in Norway): "Apparater som er koplet til knettplugg og/eller via annet jutstyr – og er tilkoplet et koanett, kan forårsake brannfare For å unngå dette skal det vapparater til kabel-TV nett in galvanisk isolator mellom apnettet."	beskyttelsesjord via jordtilkoplet iksialbasert kabel-TV e. ed tilkopling av istalleres en	Ariest Ariest	
Ziri.	Translation to Swedish: "Apparater som är kopplad ti vägguttag och/eller via anna samtidigt är kopplad till kabe medföra risk för brand. För a vid anslutning av apparaten galvanisk isolator finnas mel kabel-TV nätet.".	n utrustning och el-TV nät kan i vissa fall att undvika detta skall till kabel-TV nät	et zwith	
8.5.4.2.3	United Kingdom	, 4	-	N/A
	Add the following after the 2 paragraph: An emergency stop system or requirements of IEC 60204-required where there is a risk	complying with the 1 and ISO 13850 is	Arith A	



Clause	Deguirement : Test			Decult Demonts	\/andiat
Clause	Requirement + Test		7	Result - Remark	Verdict
B.3.1 and B.4	Ireland and United Kingd				N/A
	The following is applicable:			4	*
	To protect against excessive circuits in the primary circuits equipment, tests according B.4 shall be conducted using circuit breaker complying was a simple circuit breaker circui	it of direct plug-in g to Annexes B.3.1 a ng an external miniati	nd ure	with with	4
	rated 32A. If the equipment tests, suitable protective de as an integral part of the di until the requirements of Armet	t does not pass these evices shall be include rect plug-in equipm	ed ent,	with with	3,67
G.4.2	Denmark	* *			N/A
G.4.2	To the end of the subclause Supply cords of single phase rated current not exceeding with a plug according to DS	se appliances having g 13 A shall be provid	а	with white	IN/A
	CLASS I EQUIPMENT pro- with earth contacts or which used in locations where pro- contact is required according shall be provided with a plu- standard sheet DK 2-1a or	h are intended to be otection against indirency or to the wiring rules ug in accordance with	ect		
	If a single-phase equipment CURRENT exceeding 13 A equipment is provided with plug, this plug shall be in a standard sheets DK 6-1a in 60309-2.	or if a polyphase a supply cord with a ccordance with the			
	Mains socket outlets intend to Class II apparatus with a shall be in accordance DS standard sheet DKA 1-4a.	a rated current of 2,5		with white	4
	Other current rating socket compliance with Standard or DKA 1-1c.			at white	Z. C.
	Mains socket-outlets with e compliance with DS 60884 Standard Sheet DK 1-3a, D 5a or DK 1-7a	-2-D1:2011	1-	A. A.	4 C
	Justification:			\$\frac{1}{2}\$	
	Heavy Current Regulations	Section 6c			



	IEC6	2368_1E - ATTACHMI	ENT	
Clause	Requirement + Test	20 2	Result - Remark	Verdict
G.4.2	United Kingdom		* 3	N/A
*	To the end of the subclause the	he following is added:	- 3	
	The place post of diseast place in	a avvia wa a a a a la a la la la la la la la la l		
	The plug part of direct plug-in assessed to BS 1363: Part 1,		*	
	12.11, 12.12, 12.13, 12.16, ar		AL 344	
	the test of 12.17 is performed			
	125 °C. Where the metal eart		3	
	Insulated Shutter Opening De			
	requirements of clauses 22.2	and 23 also apply.	<u> </u>	
G.7.1	United Kingdom			N/A
	To the first page group the follo	nuina in addadu A	4, 4,	
	To the first paragraph the follo	owing is added:		
	Equipment which is fitted with	a flexible cable or	A	4
	cord and is designed to be co			
	socket conforming to BS 1363		A 2	
	flexible cable or cord shall be			
大	plug' in accordance with the F		4	
	(Safety) Regulations 1994, St			.4 6
	1994 No. 1768, unless exemp	oted by those	(.L &	
	regulations.			
	NOTE "Standard plug" is defined in S	SI 1768:1994 and essentially	K, 7,	
	means an approved plug conforming			A
	conversion plug.			
G.7.1	Ireland		_	N/A
	To the first paragraph the follo	owing is added:		
	To the hist paragraph the lone	owing is added.		
	Apparatus which is fitted with	a flexible cable or	7	\vdash \checkmark
7	cord shall be provided with a		.L	
	with Statutory Instrument 525			
	and Conversion Adapters for	Domestic Use		.1
	Regulations: 1997. S.I. 525 p			
	recognition of a standard of a		*	
0.7.0	which is equivalent to the rele Ireland and United Kingdon			N1/A
G.7.2	in ciana ana omitea Kinguon	4	· (L) 4.	N/A
4	To the first paragraph the follo	owing is added:		4
	3			
	A power supply cord with a co		<u> </u>	
	is allowed for equipment which			
	and up to and including 13 A.	7	<i>↑</i>	



			\$23112100804001			
IEC62368_1E - ATTACHMENT						
Clause	Requirement + Test	10	Result - Remark	Verdict		
ZC	ANNEX ZC, NATIONAL DE	VIATIONS (EN)	*	N/A		
10.5.2	Germany		d 3.00	N/A		
	The following requirement ap	oplies:				
	For the operation of any cath for the display of visual imag acceleration voltage exceedi is required, or application of approval (Bauartzulassung)	es operating at an ng 40 kV, authorizat type	*			
	Justification: German ministerial decree a		ion			
	(Röntgenverordnung), in force 2002-07-01, implementing the 96/29/EURATOM.	ce since		et et .		
	NOTE Contact address: Physikalisch-Technische Bundesan: 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet:		4100 4	4		



	A Z	IEC62368_1E - ATTACHME	:NT	
Clause	Requirement + Test	70, 7,	Result - Remark	Verdict

.D	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE CO	RDS (EN)	N/A
	Type of flexible cord	Code desi	gnations	N/A
		IEC	CENELEC	
	PVC insulated cords	L		
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	3,01
	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	4

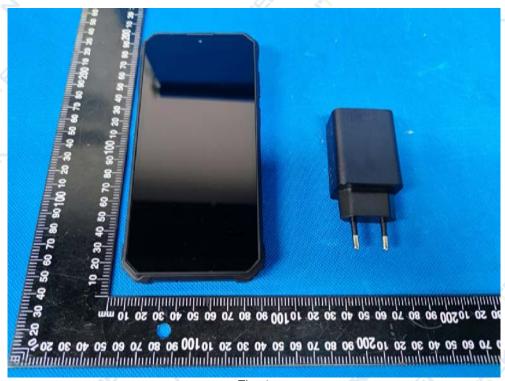
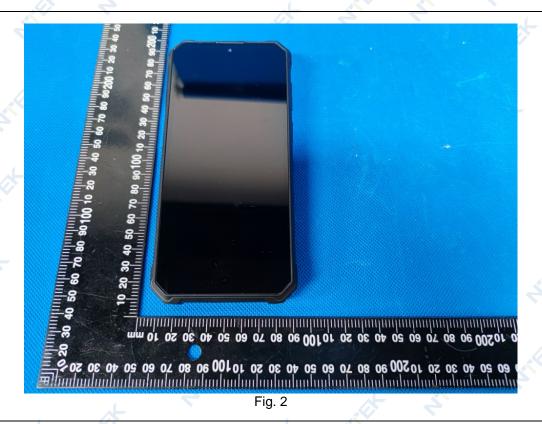


Fig. 1



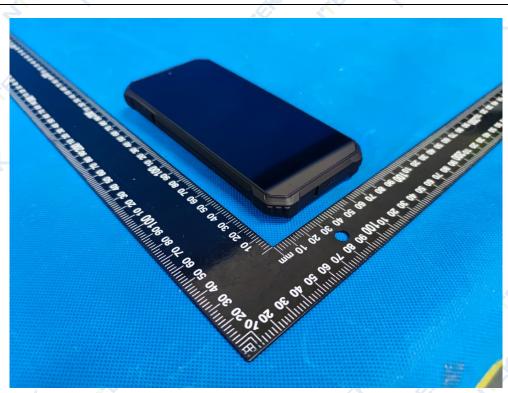


Fig. 3



Fig. 4



Fig. 5



Fig. 6

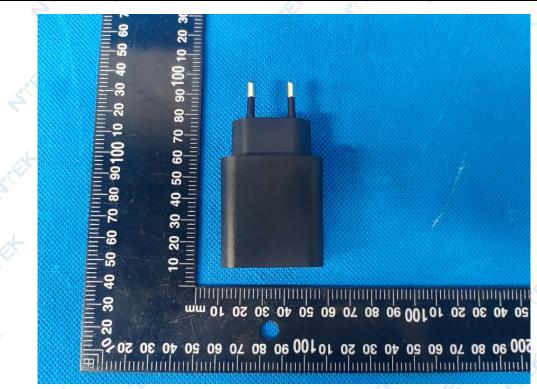


Fig. 7



Fig. 8



Fig. 9



Fig. 10

Report No. S23112100804001

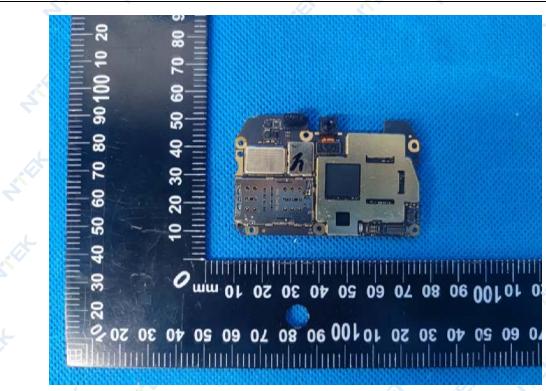


Fig. 11

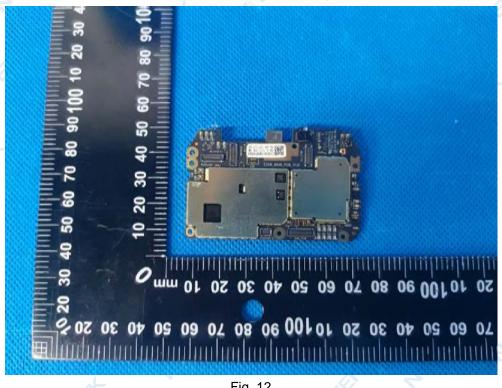


Fig. 12

END OF REPORT