

TEST REPORT

Report No.: \$23101005804001

Product: Smart phone

Model No.: BV9300 Pro

Applicant: DOKE COMMUNICATION (HK) LIMITED

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD

WANCHAI HK CHINA

Issued by: Shenzhen NTEK Testing Technology Co., Ltd.

Lab Location: 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park,

Sanwei Community, Hangcheng Street, Baoan District,

Shenzhen, Guangdong, China

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



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TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment

Pa	art 1: Safety requ	irements	mology oqt		
Report Number:	S23101005804001				
Tested by (+ signature):	Young Yin	Young	Tin		
Approved by (+ signature):	Henson Dong	Hens	on Dung		
Date of issue:	2023-11-02				
Name of Testing Laboratory preparing the Report:	Shenzhen NTEK Te 1&5/F, Building C, 1 Community, Hangch Shenzhen ,Guangdo	&2/F, Building neng Street, B	g E, Fenda Sc	ience Park	, Sanwei
Applicant's name:	DOKE COMMUNIC	ATION (HK) L	IMITED		7
Address:	RM 1902 EASEY CO WANCHAI HK CHIN		253-261 HENN	NESSY RO	AD
Test specification:	70 4			太	,
Standard:	☐ IEC 62368-1: 201	18 (Third Edition	on)		
		:2020+A11:20	20		
Test procedure:	CE Scheme				
Non-standard test method:	N/A				
TRF template used:	IECEE OD-2020-F1:	:2021, 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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This publication may be reproduced in is acknowledged as copyright owner at not assume liability for damages result its placement and context.	nd source of the mate	erial. IECEE ta	akes no respo	nsibility for	and will
Test item description::	Smart phone				
Trade Mark:	Blackview				
Manufacturer:	Shenzhen DOKE E	Electronic Co.,	Ltd		
	801, Building3, 7th Road, Guangming			munity, Yut	ang
Model/Type reference:	BV9300 Pro				
Ratings:	Input: 9Vdc, 3A				
	or 3.85Vdc, 15080	mAh(recharge	eable lithium b	attery)	



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.



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;
- The main rating label was attached in enclosure.



Test item particulars:	
Product group	
Classification of use by:	☑ Ordinary person☑ Children likely present☑ Instructed person☑ Skilled person
Supply connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ + %/- %
Supply connection – type:	None☐ pluggable equipment type A -☐ non-detachable supply cord
THE PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE	appliance coupler direct plug-in pluggable equipment type B -
	non-detachable supply cord appliance coupler permanent connection
Considered current rating of protective	☐ mating connector☑ other: Not directly connected to mains☐ A.
device:	Location: ☐ building ☐ equipment ☐ N/A
Equipment mobility:	☐ movable ☐ hand-held ☐ transportable ☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other:
Overvoltage category (OVC):	
Class of equipment:	□ other: Not directly connected to the mains □ Class I □ Class II □ Class III
Special installation location:	Not classifiedN/A□ restricted access area□ outdoor location
Pollution degree (PD):	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified T _{ma} : IP protection class:	40°C ☐ Outdoor: minimum °C ☐ IP 20
Power systems:	☐ TN ☐ TT ☐ IT - V _{L-L} ☐ not AC mains
Altitude during operation (m):	∑ 2000 m or less ☐ m
Altitude of test laboratory (m):	☐ 2000 m or less ☐ 500 m
Mass of equipment (kg):	Approx. 0.525 Kg



Possible test case verdicts:	4	7 -	
- 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:	* **		.0
Date of receipt of test item	: 2023-10-16		
Date (s) of performance of tests	: 2023-10-16 to 20)23-10-24	
General remarks:	.0 - 5		
Throughout this report a ☐ comma / ☒ po			section.
Name and address of factory (ies)	: N/A		
General product information and other rem	narks:		,L
 The product is Mobile Phone to be used for equipment. Manufacturer's specified maxim operation 		ation and communic	ation technology
Model Differences –	4		10
N/A			4
	.L		



Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All circuits	Ordinary/ Instructed/ Skilled	N/A	N/A	N/A
6	Electrically-caused fire	<u>.</u>		
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 s	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.



	A 2	IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	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)	* 3 4	N/A
4.1.5	Constructions and components not specifically covered	4,	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts used.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Annex T.4)	Р
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	N/A
4.4.3.5	Internal accessible safeguard tests	* 7,	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)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	*	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	Р
4.4.4	Displacement of a safeguard by an insulating liquid	4,	N/A
4.4.5	Safety interlocks	م∟ حا	N/A
4.5	Explosion	L 100	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	* 30	Р
+ /	Fix conductors not to defeat a safeguard	- 4	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		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	4 4	N/A
4.8.4.6	Crush test	71, 7,	N/A
4.8.5	Compliance	.0	N/A
	30N force test with test probe	4	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)	Р
5.2.2.3	Capacitance limits:	· (1)	N/A
5.2.2.4	Single pulse limits:	4,	N/A
5.2.2.5	Limits for repetitive pulses:	X -	N/A
5.2.2.6	Ringing signals	L 20	N/A
5.2.2.7	Audio signals	70 4	N/A
5.3	Protection against electrical energy sources	7	N/A



	, Z	IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
5.3.1	General Requirements for ac ordinary, instructed and skille		Only ES1 circuit generated and accessible in this equipment	N/A
5.3.1 a)	Accessible ES1/ES2 derived	from ES2/ES3 circuits		N/A
5.3.1 b)	Skilled persons not unintention conductors	onal contact ES3 bare		N/A
5.3.2.1	Accessibility to electrical ener safeguards	rgy sources and		N/A
	Accessibility to outdoor equip	ment bare parts	4 .0	N/A
5.3.2.2	Contact requirements	*		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		3	N/A
5.3.2.4	Terminals for connecting strip	pped wire	,	N/A
5.4	Insulation materials and red	quirements	4 X X	Р
5.4.1.2	Properties of insulating mater	rial	YOU THE ST.	Р
5.4.1.3	Material is non-hygroscopic	L X		N/A
5.4.1.4	Maximum operating temperat materials			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	4 1.10th	N/A
5.4.1.5.3	Thermal cycling test			N/A
5.4.1.6	Insulation in transformers with	h varying dimensions	7	N/A
5.4.1.7	Insulation in circuits generating	ng starting pulses		N/A
5.4.1.8	Determination of working volt	age:		N/A
5.4.1.9	Insulating surfaces	<u></u>		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		* 3	N/A
5.4.1.10.3	Ball pressure test			N/A
5.4.2	Clearances	* **		N/A
5.4.2.1	General requirements			N/A
	Clearances in circuits connect Alternative method	eted to AC Mains,	3. OF 2.	N/A
5.4.2.2	Procedure 1 for determining of	clearance	Age of	N/A
	Temporary overvoltage		4 4	_



	IEC (62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance		* 30	N/A
5.4.2.3.2.2	a.c. mains transient voltage			_
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 measur	ement:	- CT - F	_
5.4.2.4	Determining the adequacy of a clearance electric strength test		4	N/A
5.4.2.5	Multiplication factors for clearances and		10 310 T	N/A
5.4.2.6	Clearance measurement		7	N/A
5.4.3	Creepage distances	4	<u> </u>	∟N/A
5.4.3.1	General		* 3, 4	N/A
5.4.3.3	Material group	<u>,</u> :	74	_
5.4.3.4	Creepage distances measurement	:		N/A
5.4.4	Solid insulation			N/A
5.4.4.1	General requirements			N/A
5.4.4.2	Minimum distance through insulation	:		N/A
5.4.4.3	Insulating compound forming solid insula	ation		N/A
5.4.4.4	Solid insulation in semiconductor devices	S	*	N/A
5.4.4.5	Insulating compound forming cemented	joints		N/A
5.4.4.6	Thin sheet material	4	.0	N/A
5.4.4.6.1	General requirements			N/A
5.4.4.6.2	Separable thin sheet material		4,	N/A
160	Number of layers (pcs)		.	N/A
5.4.4.6.3	Non-separable thin sheet material		AL 350	N/A
	Number of layers (pcs)		70 6	N/A
5.4.4.6.4	Standard test procedure for non-separa sheet material		4	N/A
5.4.4.6.5	Mandrel test		L X	N/A
5.4.4.7	Solid insulation in wound components	4		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, V_{PW} (V)			N/A
	Alternative by electric strength test, test (V), K_R	-		N/A
5.4.5	Antenna terminal insulation	4 5		_ N/A
5.4.5.1	General			N/A
5.4.5.2	Voltage surge test	ملہ		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.5.3	Insulation resistance (M):	4 50	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		N/A
5.4.8	Humidity conditioning	7	N/A
	Relative humidity (%), temperature (°C), duration (h):	of of	_
5.4.9	Electric strength test	- T	N/A
5.4.9.1	Test procedure for type test of solid insulation:	.(_	N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from externa circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits	.1	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	16 16 4	N/A
5.4.10.2.2	Impulse test		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test:	A 70t	N/A
5.4.11	Separation between external circuits and earth	7 7	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
4	SPDs bridge separation between external circuit and earth	4	N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V):		_
7,	Max increase due to variation U _{sp} :		_
	Max increase due to ageing U _{sa} :	A 4	
5.4.11.3	Test method and compliance:	4	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:	Ė /	N/A
5.4.12.4	Container for insulating liquid:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5	Components as safeguards	* 30	N/A
5.5.1	General	_ <	N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector		N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers	*	N/A
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	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		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation	+ 7	N/A
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm²)		_
	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)	.0	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	4	N/A
	Terminal size for connecting protective bonding conductors (mm):	4	N/A
5.6.5.2	Corrosion	A C	N/A
5.6.6	Resistance of the protective bonding system	-	N/A
5.6.6.1	Requirements	* * 3	N/A



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Clause	Requirement + Test	Re	esult - Remark	Verdict
5.6.6.2	Test Method		4 50	N/A
5.6.6.3	Resistance () or voltage drop			N/A
5.6.7	Reliable connection of a protective earth conductor	ning		N/A
5.6.8	Functional earthing	1	* 3	N/A
<i>A</i>	Conductor size (mm²)			N/A
	Class II with functional earthing marking	j:	4	N/A
	Appliance inlet cl & cr (mm)		+ 4	N/A
5.7	Prospective touch voltage, touch cur	rent and protective co	onductor current	N/A
5.7.2	Measuring devices and networks			N/A
5.7.2.1	Measurement of touch current			N/A
5.7.2.2	Measurement of voltage		4 4	N/A
5.7.3	Equipment set-up, supply connections a connections	and earth		N/A
5.7.4	Unearthed accessible parts	:	L	N/A
5.7.5	Earthed accessible conductive parts			N/A
5.7.6	Requirements when touch current excellimits	eds ES2	4	N/A
	Protective conductor current (mA)	····::	3	N/A
	Instructional Safeguard		-47	N/A
5.7.7	Prospective touch voltage and touch cu associated with external circuits	rrent		N/A
5.7.7.1	Touch current from coaxial cables			N/A
5.7.7.2	Prospective touch voltage and touch cu associated with paired conductor cables	rrent		N/A
5.7.8	Summation of touch currents from exter	nal circuits		N/A
	a) Equipment connected to earthed exterior circuits, current (mA)		() A	N/A
Z.C.	b) Equipment connected to unearthed e circuits, current (mA)		, de	N/A
5.8	Backfeed safeguard in battery backe	d up supplies	- 3	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	P P
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	See below.	Р



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Clause	Requirement + Test	Result - Remark	Verdict
6.2.3.1	Arcing PIS:	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 and abnormal operating conditions		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:	* *	N/A
6.4	Safeguards against fire under single fault condition	ons	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 Ø	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	7	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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	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



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Clause	Requirement + Test	Result - Remark	Verdict
	Flammability tests for the bottom of a fire enclosure	* 3	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)	- 3/0- 4	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	, ,	P
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 (mm ²) 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)	
	Personal safeguards and instructions:	_
7.5	Use of instructional safeguards and instructions	N/A
	Instructional safeguard (ISO 7010):	
7.6	Batteries and their protection circuits	P

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	3	Р
8.3	Safeguards against mechanical energy sources	<u>, L</u>	N/A
8.4	Safeguards against parts with sharp edges and corners		Р
8.4.1	Safeguards		Р
大	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



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Clause	Requirement + Test	347 3	Result - Remark	Verdict
8.5.1	Fingers, jewellery, clothing, hair, e MS2 or MS3 parts	etc., contact with	No moving parts	N/A
	MS2 or MS3 part required to be a function of the equipment	ccessible for the	. 4	N/A
	Moving MS3 parts only accessible	e to skilled person		N/A
8.5.2	Instructional safeguard		- 10 4	N/A
8.5.4	Special categories of equipment of parts	containing moving	7	N/A
8.5.4.1	General			N/A
8.5.4.2	Equipment containing work cells v	with MS3 parts	7, 4	N/A
8.5.4.2.1	Protection of persons in the work	cell		N/A
8.5.4.2.2	Access protection override			N/A
8.5.4.2.2.1	Override system	.		N/A
8.5.4.2.2.2	Visual indicator		7	N/A
8.5.4.2.3	Emergency stop system		4	N/A
4	Maximum stopping distance from activation (m)			N/A
	Space between end point and nea mechanical part (mm)			N/A
8.5.4.2.4	Endurance requirements		* ~	N/A
	Mechanical system subjected to 1 operation	100 000 cycles of	F 3"	N/A
	- Mechanical function check and v	visual inspection	* 3	N/A
4	- Cable assembly	·	310	N/A
8.5.4.3	Equipment having electromechan destruction of media	ical device for	*	N/A
8.5.4.3.1	Equipment safeguards	46. 4	* 3,0	N/A
8.5.4.3.2	Instructional safeguards against m	noving parts:	250	N/A
8.5.4.3.3	Disconnection from the supply		1	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	.01	No such lamps provided.	N/A
	Explosion test	·····:	*	N/A
8.5.5.3	Glass particles dimensions (mm).	:	4	N/A
8.6	Stability of equipment	4	30	N/A
8.6.1	General	140		N/A
4	Instructional safeguard	:	* * *	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
8.6.2	Static stability	* *	N/A
8.6.2.2	Static stability test:		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm):	- 0 2	
	Tilt test	4	N/A
8.6.4	Glass slide test	, ,	N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:	<i>*</i>	N/A
8.7.2	Test methods	AL 200	N/A
	Test 1, additional downwards force (N):	10 4 4	N/A
	Test 2, number of attachment points and test force (N)	4	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm):	THE THE THE	N/A
8.8	Handles strength	7 7	N/A
8.8.1	General	No handle	N/A
8.8.2	Handle strength test	*	N/A
<u>s</u>	Number of handles:		_
- 4	Force applied (N):		N/A
8.9	Wheels or casters attachment requirements	7 C	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		N/A
2	Loading force applied (N)::		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability	4	N/A
	Force applied (N):	ي ي	N/A
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment	t (SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:	* 30	N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied:	4	N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance	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		P
10.2	Radiation energy source classification		Р
10.2.1	General classification RS1: LED		Р
	Lasers	*	_
	Lamps and lamp systems:	LCD display comply with RS1	_
	Image projectors:		_
	X-Ray	7	_
	Personal music player	A 2	_
10.3	Safeguards against laser radiation	A 200	N/A
*	The standard(s) equipment containing laser(s) comply:	<u> </u>	N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	P



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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	- 4	N/A
4	Risk group marking and location:	*	N/A
	Information for safe operation and installation	* * *	N/A
10.4.2	Requirements for enclosures	300	N/A
	UV radiation exposure		N/A
10.4.3	Instructional safeguard	4 &	N/A
10.5	Safeguards against X-radiation	477	N/A
10.5.1	Requirements		N/A
4	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg)		_
10.6	Safeguards against acoustic energy sources		Р
10.6.1	General		Р
10.6.2	Classification		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
	Unweighted RMS output voltage (mV):	Maximum volume: Right: 121mV; Left: 121mV	P
	Digital output signal (dBFS):	4	N/A
10.6.3	Requirements for dose-based systems	4	N/A
10.6.3.1	General requirements	L 30	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
7	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A):	* 2	N/A
10.6.4	Measurement methods	3,0	N/A
10.6.5	Protection of persons	d al	N/A
et 4	Instructional safeguards	1. Symbol ; 2. "high sound pressure" or equivalent wording; 3. "hearing damage risk" or equivalent wording; 4. "do not	P



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Clause	Requirement + Test	Result - Remark	Verdict
+	t sight sight	listen at high volume levels for long periods" or equivalent wording.	
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	at .	N/A
10.6.6.1	Corded listening devices with analogue input	A 25	N/A
	Listening device input voltage (mV)	3	N/A
10.6.6.2	Corded listening devices with digital input	4	N/A
	Max. acoustic output L _{Aeq,T} , dB(A):	从	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		Р
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	10 10 X	Р
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	P
	Audio Amplifiers and equipment with audio amplifiers	1 % 4	Р
B.2.3	Supply voltage and tolerances		Р
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	10 P	Р
B.3.1	General	4	Р
B.3.2	Covering of ventilation openings	*	N/A
	Instructional safeguard	4 3	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	.0	N/A
B.3.6	Reverse battery polarity	W 5	N/A
B.3.7	Audio amplifier abnormal operating conditions	Short circuit of speaker considered.	J.P
B.3.8	Safeguards functional during and after abnormal operating conditions	4 110+ 4	Р
B.4	Simulated single fault conditions		Р
B.4.1	General	N A	Р
B.4.2	Temperature controlling device	* * 5	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
B.4.3	Blocked motor test	4 3	N/A
B.4.4	Functional insulation	- (1)	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	* 30	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	of soft	Р
B.4.6	Short circuit or disconnection of passive components	7, 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
	W 5		
1	UV RADIATION		l 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		4		N/A
D.2	Antenna interface test generator	4		*	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			N/A	
	Maximum non-clipped output power (W):	/			_
	Rated load impedance (Ω):	1			_
*	Open-circuit output voltage (V):	1		.()	_
	Instructional safeguard:	/		4	_



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Clause	Requirement + Test	Result - Remark	Verdict
E.2	Audio amplifier normal operating conditions	* 30	Р
* 4	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

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		
F.1	General		L 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.	Р
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification	See copy of marking plate	Р
F.3.2.2	Model identification	See copy of marking plate	Р
F.3.3	Equipment rating markings	See copy of marking plate	Р
F.3.3.1	Equipment with direct connection to mains	, L	N/A
F.3.3.2	Equipment without direct connection to mains	,L ,A	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:	4	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	<i>₩</i> 4	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	10 × 2.	N/A
F.3.5.2	Switch position identification marking:		N/A



			l
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.3	Replacement fuse identification and rating markings		N/A
	Instructional safeguards for neutral fuse	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		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		N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:	A 21 31	N/A
F.3.6.2	Equipment class marking	21	N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	L 4 (0)	N/A
F.3.8	External power supply output marking:	YO YO 4	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
	b) Equipment for use in locations where children not likely to be present	14th - 5	Р
	c) Instructions for installation and interconnection		N/A
4	d) Equipment intended for use only in restricted access area	A- 310 .	N/A
,	e) Equipment intended to be fastened in place		N/A
.0	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard	.ct 2	N/A
	h) Protective conductor current exceeding ES2 limits	ACT AN	N/A
* *	i) Graphic symbols used on equipment	\$ Q	N/A
4	j) Permanently connected equipment not provided with all-pole mains switch	A A 4	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	k) Replaceable components or modules providing safeguard function		N/A
	Equipment containing insulating liquid	4	N/A
4	m) Installation instructions for outdoor equipment	*	N/A
F.5	Instructional safeguards	* 3,4	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 CO	N/A
G.2.4	Test method and compliance	31, 3,	N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	4	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	+ 3,0	N/A
4	Thermal cut-outs tested as part of the equipment as indicated in c)	A 350	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	A 3.00	N/A
4	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	X 310 7	N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings	* * *	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	Mains connector configuration:	<u> </u>	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	- 3	N/A
G.5	Wound components	*	Р
G.5.1	Wire insulation in wound components	* *	N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test		N/A
G.5.2.1	General test requirements	4	N/A
G.5.2.2	Heat run test	10 7	N/A
	Test time (days per cycle):		
	Test temperature (C):		
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown	Z'' ' 	N/A
G.5.3	Transformers	.1	N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Transformer overload tests	3	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method	4	N/A
G.5.3.4	Transformers using FIW	*	N/A
G.5.3.4.1	General	* 3	N/A
4	FIW wire nominal diameter:		_
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	* 300	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	4"	N/A
G.5.3.4.5	Thermal cycling test and compliance	* 3	N/A
G.5.3.4.6	Partial discharge test	* 3	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors	-4	Р
G.5.4.1	General requirements	* * *	P



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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.2	Motor overload test conditions	4 50	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	4	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		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	A.	N/A
	Operating voltage:	* *	_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G. 7	Mains supply cords		N/A
G.7.1	General requirements	4 4	N/A
	Туре:	* **	_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	*	N/A
G.7.3.2	Cord strain relief	4 (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):	4	N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry	.1	N/A
G.7.5	Non-detachable cord bend protection		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, <i>D</i> (mm)	A A A	



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Clause	Requirement + Test	Result - Remark	Verdict
	Radius of curvature after test (mm)	+ 3 ⁽⁰⁾	_
G.7.6	Supply wiring space	A	N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	4 10 2	N/A
G.7.6.2.2	Test with 8 mm strand	7	N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire	- 20 7	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	10 4 A	N/A
G.9	Integrated circuit (IC) current limiters	4	N/A
G.9.1	Requirements	*	N/A
	IC limiter output current (max. 5A)	* * *	_
٠,ـ	Manufacturers' defined drift	7, 5, 1	_
G.9.2	Test Program	, Q	N/A
G.9.3	Compliance	4	N/A
G.10	Resistors	AL	N/A
G.10.1	General	4 4	N/A
G.10.2	Conditioning	* *	N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements	,L	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	7	N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V _{ini, a}		_
+	Routine test voltage, V _{ini, b}	. 2	_
G.13	Printed boards		P.L



<u> </u>	IEC	62368-1	<i>₹</i>	
Clause	Requirement + Test		Result - Remark	Verdict
G.13.1	General requirements		4 30	Р
G.13.2	Uncoated printed boards			Р
G.13.3	Coated printed boards	F 3		N/A
G.13.4	Insulation between conductors on the surface	same inner	at seet	N/A
G.13.5	Insulation between conductors on diffe	rent surfaces		N/A
7,0	Distance through insulation	2 :		N/A
	Number of insulation layers (pcs)		4	_
G.13.6	Tests on coated printed boards	*	40 4	N/A
G.13.6.1	Sample preparation and preliminary in	spection		N/A
G.13.6.2	Test method and compliance		.0	N/A
G.14	Coating on components terminals		A 4 5	N/A
G.14.1	Requirements	:	7, , , ,	N/A
G.15	Pressurized liquid filled component	s A		N/A
G.15.1	Requirements		* * *	N/A
G.15.2	Test methods and compliance	,L s		N/A
G.15.2.1	Hydrostatic pressure test			N/A
G.15.2.2	Creep resistance test			N/A
G.15.2.3	Tubing and fittings compatibility test	4	*	N/A
G.15.2.4	Vibration test	* 4		N/A
G.15.2.5	Thermal cycling test	X 4		N/A
G.15.2.6	Force test			N/A
G.15.3	Compliance	4	4	N/A
G.16	IC including capacitor discharge fur	nction (ICX)	*	N/A
G.16.1	Condition for fault tested is not require	d C	4 (**	N/A
	ICX with associated circuitry tested in e	quipment		N/A
	ICX tested separately			N/A
G.16.2	Tests		.47	N/A
	Smallest capacitance and smallest res specified by ICX manufacturer for impu		1. A.	_
-0	Mains voltage that impulses to be super-		<i>≯</i> - ≥	_
>	Largest capacitance and smallest resistested by itself for 10000 cycles test		.pt 4500	_
G.16.3	Capacitor discharge test	:		N/A



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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	.0 4	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, 4	_
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	10t 410 50	N/A
H.3.2.2	Tripping device	4	N/A
H.3.2.3	Monitoring voltage (V)	4	N/A
	W 5	L 4 49	•

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General		N/A
	Winding wire insulation:	L 2	
	Solid round winding wire, diameter (mm):	+ 10	N/A
4	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	Result - Rema	rk Verdict		
K.7.1	Separation distance for contact gaps & i circuit elements	nterlock	N/A		
	In circuit connected to mains, separation for contact gaps (mm)		N/A		
	In circuit isolated from mains, separation for contact gaps (mm)		N/A		
	Electric strength test before and after the 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		N/A
L.1	General requirements	Not directly connected to the mains	N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard	:	N/A

М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells	AL .	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	Р
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery	(See appended table M.3)	Р
	Excessive discharging	(See appended table M.3)	Р
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A



	IEC 62368-1		_
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	*	Р
M.4.2.1	Requirements		P
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:		Р
M.4.4	Drop test of equipment containing a secondary lithium battery	74, 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	1	N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults		Р
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd 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):	2	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 spa with aqueous electrolyte	rk sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method	*	N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		_
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm)		
M.9	Preventing electrolyte spillage	74, 4,	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
<i>//</i>	Material(s) used		
0	MEASUREMENT OF CREEPAGE DISTANCES AND C	LEARANCES	N/A
	Value of X (mm):		_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		N/A
P.1	General		N/A
P.2	Safeguards against entry or consequences of entry of	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



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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):		_
		.L //?	

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

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	
	Samples, material	_
	Wall thickness (mm)	_



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Clause	Requirement + Test	Result - Remark	Verdict
	Conditioning (C)		
	Test flame according to IE 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 wr	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	nce	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

N/A



Y.3.5

Compliance

	IEC 00000 4	
01	IEC 62368-1	<u> </u>
Clause	Requirement + Test Re	sult - Remark Verdic
	Number of particles counted	lass provided. N/A
T.11	Test for telescoping or rod antennas	N/A
	Torque value (Nm)	ntennas provided. N/A
Ť	A S	
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AGAINST THE EFFECTS OF IMPLOSION	AND PROTECTION N/A
U.1	General	N/A
	Instructional safeguard :	N/A
U.2	Test method and compliance for non-intrinsically protected	CRTs N/A
U.3	Protective screen	N/A
2	, W 7	A- 1
V	DETERMINATION OF ACCESSIBLE PARTS	N/A
V.1	Accessible parts of equipment	N/A
V.1.1	General	N/A
V.1.2	Surfaces and openings tested with jointed test probes	N/A
V.1.3	Openings tested with straight unjointed test probes	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	N/A
V.1.5	Slot openings tested with wedge probe	N/A
V.1.6	Terminals tested with rigid test wire	N/A
V.2	Accessible part criterion	N/A
	* \$ 5.	<i>₩ ₩ ₩</i>
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDII (300 V RMS)	
	Clearance:	N/A
	A 20 2	L
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOS	URES N/A
Y.1	General	N/A
Y.2	Resistance to UV radiation	N/A
Y.3	Resistance to corrosion	N/A
Y.3	Resistance to corrosion	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	N/A
Y.3.2	Test apparatus	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
Y.4	Gaskets	+ 1	N/A
Y.4.1	General	7.5	N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods:		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclosure	,	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3:		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust	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		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A



	- C	IEC 62368-1	d+ 30	
Clause	Requirement + Test	, (i)	Result - Remark	 Verdict

5.2	TABLE: Classificati	on of electrical	n of electrical energy sources							
Supply Location (e.g. Voltage circuit		Test conditions		Parameters						
vollage	designation)	Conditions	U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾				
9VDC	Input circuit	Normal			<u></u>		ES1			
*		Abnormal:		⊘			4			
		Single fault:	1	-						
3.85VDC	Battery cell	Normal	4.40VDC		_	<u> </u>	ES1			
	10 4	Abnormal:		- - <						
	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 vo	oltage measureme	nt		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
				,_	4
Suppleme	ntary information:				
				-	A 3

5.4.1.10.2 TABLE: Vic	TABLE: Vicat softening temperature of thermoplastics						
Method: ISO 306 / B50							
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)				
~							
Supplementary information	n:						

5.4.1.10.3	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics									
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm									
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ession ter (mm)			
	,L ,C		<u>. </u>		7					
Supplement	ary information:									
. 5		10 H		لہ	- 4	3	4 -			



	, O'	IEC 62368-1	dt 300		
Clause	Requirement + Test		Result - Remark	1	Verdict

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage 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: Minimun	TABLE: Minimum distance through insulation								
Distance through insulation (DTI) at/of Peak voltage (V) Insulation Required DTI (mm)										
1	7/// 7		d -3°							
Supplement	Supplementary information:									
			1	٨-						

5.4.4.9	4.4.9 TABLE: Solid insulation at frequencies >30 kHz									
Insulation m	naterial		E_{P}	Frequency (kHz)	$K_{\!\scriptscriptstyle m R}$	Thickness d (mm)	Insulation	V _{PW} (Vpk)		
	\-				- 4			/		
Supplement	tary inform	ation:								
				4		X	- 4			

5.4.9	TABLE: Electric stre	ngth tests	*		N/A
Test voltage	applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	40			7	*
			4-	&+	
Basic/supple	ementary:			* 7	
		4	ک ج		
Reinforced:	4, 4	, L		,	
		140	7	,	4 4
Routine Tes	ts:	4	.C		
T	* %		4-2		
Supplement	ary information:				
	*		, L .©		C



	A 3	IEC 62368-1	A 30		
Clause	Requirement + Test		Result - Remark	4	Verdict

5.5.2.2	TABLE:	Stored discharge o	on capacitors			N/A
Location	·	Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
		₹₹		L - A		
Supplemen	ntary inform	mation:				
X-capacito	rs installed	d for testing are:			1	
[] bleedir	ng resistor	rating:				
[] ICX:						
Notes:						
A. Test Loc	cation:					
Phase to N	leutral; Ph	ase to Phase; Phase	to Earth; and/or Neu	ıtral to Earth		
B. Operatir	ng conditio	on abbreviations:				
N – Norma	l operating	g condition (e.g., norn	nal operation, or ope	n fuse); S –Singl	e fault condition	n

5.6.6 TABLE: Resistance of protective conductors and terminations						N/A
Location		Test current (A)	Duration (min)	Voltage drop (V)	Res	sistance (Ω)
	,	<u></u>		٠- ٦		
Supplementary information:						
		1			大	

5.7.4	TABLE	E: Unearthed acces	ssible parts				N/A
Location					ES		
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})			class
		7 -4		6	<u> </u>		
Supplementary information:							
Abbreviatio	Abbreviation: SC= short circuit; OC= open circuit						

5.7.5	TABLE: Earthed access	sible conductive part			N/A
Supply voltage (V):		Ct 2		* 3	_
Phase(s):		[] Single Phase; [] Three Phase: [] Delta [] Wye			
Power Dis	stribution System:	[]TN []TT []IT			
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	ent
- 2		1	<i></i>		



				IEC 62368	8-1	d 3	
Claus	se Rec	quirement + Te	est		3	Result - Remark	Verdict
		*	.<	2*			
				3	لم		
				4			
				5	4		
				6	.4		 •
				8	10	4	 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:	TABLE: Backfeed safeguard in battery backed up supplies						/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES C	lass
			<u> </u>					
Supplement	Supplementary information:							
Abbreviation	n: SC= sh	ort circuit, O	C= open circuit	4				

6.2.2	ABLE: Power source		P			
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Battery cell 1 output	Normal	1.51	16.26	24.57	5	PS2
Battery cell 2 output	Normal	2.05	17.72	36.44	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		ng PIS? es / No
	Ø 4	* *				
Supplement	ary information:					



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

6.2.3.2 TABLE: Determi	6.2.3.2 TABLE: Determination of resistive PIS						
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No				
Battery cell		>15	Yes				
Supplementary information:	Supplementary information:						
Abbreviation: SC= short circuit; OC= open circuit							

8.5.5	TABLE: High pre	essure lamp		•	N/A		
Lamp manufacturer		Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No		
			07 27				
Supplement	upplementary information:						
		7	.	<i>大</i>	40		

9.6	TABLE:	Tempera	ture meas	ureme	nts	for wireles	s power t	ransmitter	s	N/A
Supply voltage	ge (V)			: -	-				4	_
Max. transmi	it power	of transmit	tter (W)	: -	-	4	٠,ـ			_
								with receiver and at distance of 2 mm		ver and at of 5 mm
Foreign ob	jects	Object (°C)	Ambient (°C)	Obje (°C		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
	7					*				(
Supplementary information:										
		L		4					4,	

5.4.1.4,	TABLE: Temperature measurem	ents				Р						
9.3, B.1.5, B.2.6												
Supply volta	age (V):	A	В									
Ambient ten	nperature during test T_{amb} (°C):	See below	See below		et	_						
Maximum m	neasured temperature <i>T</i> of part/at:		Allowed T_{max} (°C)									
PCB near D	OC inlet	48.4	40.3			130						
PCB near U	J701	55.7	54.1	💍		130						



					Report No.	32310100	3804001
		I	EC 62368-1				
Clause Requirement + T	est			Resul	lt - Remark		Verdict
PCB near U1502		>	55.0	53.7	,_		130
Battery body	4		51.1	49.2	4-47		Ref.
Enclosure inside near battery	/		49.3	46.6	7		Ref.
Ambient	-0		40.0	40.0		-	4
Accessible part	4			4		4	
Enclosure outside near batte	ry		37.8	36.9	<u></u>		48
Screen	*		28.7	33.7			48
Button	10		34.3	32.2	<u></u>	<u> </u>	77
Adapter surface			40.5	d			77
Ambient		.0	25.0	25.0			
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω	t_2 (°C)	$R_2(\Omega)$	T (°C)	Allowed T_{max} (°C)	Insulation class
L			- €				
Supplementary information:						1	

Supplementary information:

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

A: Charging by adapter, play 1KHz audio signal, maximum sound, maximum brightness.

B: Full battery discharging, play 1KHz audio signal, maximum sound, maximum brightness.

B.2.5	TAE	BLE: Inpu	it test		4	.	.0		Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditio	n/status
9Vdc		1.663	2	4.23				Supplied external A adapter, e battery. Battery ch current: 2	AČ empty narging
9Vdc		2.145	2	19.3	A. C.			Empty bacharge arruning. Bacurrent: 2	nd EUT attery
Fully battery	جن ا				A TOTAL	A STORY	Tility 	Fully batte operation dischargir volume, N brightness three vert signal vide	while ng (Max /lax s, play a ical bars
at 4			*		A A			Battery dischargir current: 2	



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

Supplementary information:

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

- 1. The measured input power did not exceed the marked input rating by more than 10% when the apparatus was operated to produce the maximum normal input power.
- 2. The measured input current or input power under normal operating conditions, shall not exceed the rated current or rated power by more than 10 %.

B.3, B.4	TAB	LE: Abnori	mal operatin	g and fault	condition t	ests	٠,	P
Ambient tem	pera	ture T _{amb} (°0	C)		:	See below		_
Power sourc	e for	EUT: Manu	ıfacturer, mod	del/type, out	putrating:		6	
Component I	No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observat	ion
Empty batter	y Or	nly charge.			4		4 3	
C1603	4	SC	9VDC	10mins	\$ CI	- -	Unit Shut down ra recoverable, no chazard.	
C1604	, Ct	SC	9VDC	10mins	<u>-</u>		Unit Shut down ra recoverable, no chazard.	
Discharging	with	full charged	battery	F 3		-		
U2801 pin C F6	6-	SC	4.4VDC	10mins			Unit have no void damage, no haza	
B2803		SC	4.4VDC	10mins			Normal working, recoverable, no cono hazards.	lamage,
B2804		SC	4.4VDC	10mins	 		Normal working, recoverable, no cono hazards.	lamage,
Speaker		SC	4.4VDC	10mins	Filip Filip	- First	Speaker Shut do other function as operation, No che leak, explosion, netal emission o expulsion observ	normal emicals nolten r
Supplementa	ary in	formation:						
1. SC=Short	circu	uit, OL=Ove	r Load	V		(47		

M.3	TABLE: Pro	ection circuits for batteries provided within the equipment								
Is it possible	to install the	attery in a reverse polarity position?:								
		Charging								
Equipment S	pecification	Voltage (V)	Current (A)							
		9	3 4							



	- C	IEC 62368-1	d+ 30	
Clause	Requirement + Test	, (i)	Result - Remark	 Verdict

					Battery spe	ecification					
		Non-recharge	able	batteries		Rechar	geab	le bat	tteries		
Manufactu	urer/type	Discharging current (A)	ch	ntentional narging rrent (A)	Cha Voltage (V)	rging Current	(A)		harging ent (A)	cha	verse arging ent (A)
Shenzhen Hu Technology C Li676590HT	a Tian				4.4	70	F	8		- Curi	
Note: The test	ts of M.3.2 a	re applicable o	nly w	hen abov	e appropriate	data is no	t ava	ailable	€.		
Specified batt	tery tempera	ture (°C)			:	0-60					
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)	Current (A)		tage V)	Obs	erva	tion
	Normal	Charge		10min	Battery body surface: 51.1°C max. Ambient: 40°C	2.91A	4.4' Max		NL, NS	, NE	, NF
U1601 pin A2-A3	SC	Charge	*	10min	Battery body surface: 52.3°C max. Ambient: 40°C	2.91A- >3.025 A	4.4\ Max		NL, NS	, NE	, NF
- Article	Normal	Discharge		10min	Battery body surface: 49.2°C max. Ambient: 40°C	2.9A	4.4' Max		NL, NS	, NE	, NF
U2801 pin C6-F6	sc	Discharge	4	10min	Battery body surface: 45.6°C max. Ambient: 40°C	2.9A- >2.401 A	4.4' Max	Vdc x.	NL, NS	, NE	, NF
Supplementar	ry information	າ:									

Abbreviation:

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

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



			IE	C 62368-1			
Clause	Requirer	ment + Test			Result - Re	mark	Verdict
Maximum s	specified o	charging voltage	e (V)		: 4.4	L	_
Maximum s	specified o	charging curren	t (A)		: 7		_
Highest spe	ecified cha	arging tempera	ture (°C)		: 60		
_owest spe	cified cha	rging temperat	ure (°C)		: 0		
Battery		Operating		Measurement	i i	Observation	on
manufactur	er/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
Shenzhen Hua Tian Technology Co., Ltd./ Li676590HT		Normal condition (only charge)	4.4	2.91	Battery body surface: 51.1°C max. Ambient: 40°C	NL, NS, NE,	NE
		Normal condition (discharge)	4.4	2.9	Battery body surface: 49.2°C max. Ambient: 40°C	NL, NS, NE,	NF
		HSCT	4.4	0	Battery body surface: 53.0°C max. Ambient: 60°C	When the tempera battery body reach charge currer	es 53℃
		LSCT	4.4	0.3	Battery body surface: - 2.0°C max. Ambient: 0°C	When the tempera battery body re 0°C, charge curre	aches

Abbreviation:

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

Q.1	TABLE: Circuits inter	nded for inte	TABLE: Circuits intended for interconnection with building wiring (LPS)										
Output	Condition	11 (\(\(\) \(\)	Time (c)	I _{sc} ((A)	S (\	/A)						
Circuit	Condition	U _{oc} (V) Time (s)		Meas.	Limit	Meas.	Limit						
		4		/ +									
Supplementary Information:													
	4	*	A.V										



					'	OIL ILOI OE		
1			IEC 62	368-1	4			
Clause	Requir	ement + Test			Result - R	emark		Verdict
T.2, T.3, T.4, T.5	TABLE	E: Steady force te	st		(, Ct	4	Р
Location/Par	t	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation
Top of enclo	sure	Glass	See table 4.1.2	4	100	5 4	No dama	aged, no
Side of enclo	sure	Plastic	See table 4.1.2	3	100	5	No dama	aged, no
Bottom of enclosure		Plastic	See table 4.1.2		100	5	No dama hazard	aged, no
Supplementa	ary info	mation:						
				3	•	.1	1	4

T.6, T.9	TABLE: Imp	act test	<u> </u>		N/A
Location/Pa	rt	Material	Thickness (mm)	Height (mm)	Observation
		St - 4		Ţ	* *
Supplement	ary information	n:			
				4	* 3

T.7	TABLE: Drop	test			¥ ,	Р
Location/Pa	rt	Material	Thickness (mm)	Height (mm)	Observation	on
Top of enclo	sure	Glass	See table 4.1.2	1000	No damaged, no h	azard
Side of encl	osure	Plastic	See table 4.1.2	1000	No damaged, no h	azard
Bottom of er	nclosure	Plastic	See table 4.1.2	1000	No damaged, no h	azard
Supplement	ary information	:				
	.		3	.47	· 4.	

T.8	TABLE	: Stress relief to	est				P
Location/Pa	rt	Material	Thickness (mm)	Oven Temperatu (°C)		ration (h)	Observation
Enclosure	4	Plastic	See table 4.1.2	70		7	No damage, no hazards.
Supplement	ary infori	mation:					
		.1	4		F	4	

X	TABLE: Alternati	ive method for determini	ing minimum clearances	distances	N/A
Clearance c	listanced	Peak of working voltage	Required cl	Measure	ed cl



		Report No	0. 323101003604001
	IEC 6236	8-1	
Clause Requirement + Tes	st 💉	Result - Remark	Verdict
between:	(V)	(mm)	(mm)
	<u></u>	4	7
Supplementary information:			
7		7	* 3



	<u> </u>	IEC 62368-1	A 20		
Clause	Requirement + Test		Result - Remark	-	Verdict

4.1.2	TABLE: Critical comp	onents informati	on	* 3	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
РСВ	interchangeable	interchangeable	V-0, 130°C	UL 796	UL
Li-Battery	Shenzhen Hua Tian Technology Co., Ltd.	Li676590HT	3.85V, 15080mAh, 58.058Wh	IEC 62133-2: 2017	Report: CTC2022216 1S03-R1
LCD module	Shenzhen TXD Technology Co.,LTD	TXDY670EBW PXG-13	Module Size (W*H*T): 71.91mm*159.25 mm*1.248mm	IEC 62368-1	Tested with appliance
LED	Anhui Retop Electronics Co., Ltd.	NLW1016AV1	3Vdc	EN 62471	Report: SHES220100 197571
Speaker	Changzhou Hualong Electronics Co., Ltd	HDK- 261306ZA- BOX2	6.0Ω±15%ohm, 3.46V Max 2W	IEC 62368-1	Tested with appliance
Motor	CHONGQING LINGLONG ELECTRONIC CO.,LTD.	10G30F- 070312089- 8344B	3VDC,85mA Max	IEC 62368-1	Tested with appliance
POWER ADAPTER	Guangdong Quanzhi Technology Co., Ltd.	QA-0300CE03	Input: 100-240V~, 50/60Hz, 0.8A Output: 5.0Vdc, 3A/9.0Vdc, 3A/12.0Vdc, 2.5A/15.0Vdc, 2.0A/20.0Vdc, 1.5A/(PPS)3.3V- 11.0Vdc,3.0A(33. 0W Max)	EN IEC 62368-1: 2020+A11: 2020	Report : HX21090209 6035R1

Supplementary information:

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



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

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - PART 1: SAFETY REQUIREMENTS)

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

Attachment Form No. EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

Master Attachment 2021-02-04

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	CENELEC COMMON MODIFICATIONS (EN)	Р
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.	Р
at .	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	- 3
	Add the following annexes:	Р
	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 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.	N/A
	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.	



	IEC6	2368_1E - ATTACHME	ENT	
Clause	Requirement + Test	. (C) - (2)	Result - Remark	Verdict
3.3.19.3	sound exposure, E		A- (***	N/A
at K	A-weighted sound pressure (printegrated over a stated period			4
7	Note 1 to entry: The SI unit is Pa^2 s.		at white	
3,61	$E = \int_{0}^{\infty} p(t)^{2} dt$		400	
3.3.19.4	sound exposure level, SEL	4	* 4	N/A
A COL	logarithmic measure of sound reference value, E_0 , typically threshold of hearing in human	he 1 kHz	Anter An	4
	Note 1 to entry: SEL is measured as	A-weighted levels in dB.	not sign sign	* 4
S.C.T	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$		4	
, ,_	Note 2 to entry: See B.4 of EN 50332 information.	2-3:2017 for additional	State Artist Artis	
3.3.19.5	digital signal level relative to	o full scale, dBFS	· A	N/A
- 45	levels reported in dBFS are all level, 0 dBFS, is the level of a Hz sine wave whose undither is positive digital full scale, lead corresponding to negative digital full scale.	dc-free 997- ed positive peak value aving the code		Zi ^{rk}
s, et	Note 1 to entry: It is invalid to use dB Because the definition of full scale is level of signals with a crest factor low may exceed 0 dBFS. In particular, sq reach +3,01 dBFS.	based on a sine wave, the er than that of a sine wave		N.C.
2	Modification to Clause 10			
10.6	Safeguards against acoustic	energy sources		Р
	Replace 10.6 of IEC 62368-1 v	with the following:		
10.6.1.1	Introduction			P
S. O.	Safeguard requirements for plong-term exposure to excess levels from personal music plato the ear are specified below for earphones and headphone with personal music players a A personal music player is a pintended for use by an ordina	ive sound pressure ayers closely coupled. Requirements es intended for use re also covered. Protection or table equipment	Aight Aight &	et s
	- is designed to allow the use audiovisual content / material; - uses a listening device, suc	er to listen to audio or		



IEC62368_1E - ATTACHMENT						
Clause	Requirement + Test	240	Result	- Remark	Verdic	
	earphones that can be wor	n in or on or		1 3		
	around the ears; and					
	- has a player that can be	body worn (of a size	A			
	suitable to be carried in a c	lothing pocket) and				
	is intended for the user to	walk around with whil	e in			
	continuous use (for examp		>		4	
	in a subway, at an airport,	etc.).	4			
	EXAMPLES Portable CD players, phones with MP3 type features, F				*	
	Personal music players sha					
	requirements of either 10.6	5.2 or 10.6.3.				
	NOTE 1 Protection against acous	tic energy sources from	ナーム			
	telecom applications is referenced	d to ITU-T P.360.				
	NOTE 2 It is the intention of the C alternative methods for now, but t					
	measurement method as given in		э,			
	manufacturers are encouraged to					
	possible.		6			
	Listoning dovices sold son	aratoly chall comply y	with		4	
	Listening devices sold sepa the requirements of 10.6.6.		VILLI			
	These requirements are va					
	mode only.	ilia idi iliasic di viaed				
	The requirements do not a	only to:			ř.	
	– professional equipment;	ppry to.				
	– professional equipment,					
	NOTE 3 Professional equipment i	s equipment sold through			-	
	special sales channels. All produc	cts sold through	,			
	normal electronics stores are con-	sidered not to be profession	onal			
	equipment.				A- 3	
	- hearing aid equipment ar	nd other devices for	-			
	assistive listening;	id other devices for				
	- the following type of anal	odua narsonal music				
	players:	ogue personal music				
	 long distance radio receiv 	ver (for example a	\leftarrow			
	multiband radio receiver or				+ 2	
	receiver, an AM radio recei					
	• cassette player/recorder;		4			
	play sin bost doil,		大		4	
	NOTE 4 This exemption has been					
	technology is falling out of use an within a few years it will no longer		not			
	be extended to other technologies		1.00			
			//			
	 a player while connected 		ier			
	that does not allow the use	r to walk around			L	
	while in use.					
			.			
	For equipment that is clear		ed			
	primarily for use by children					
	relevant toy standards may	apply.			,	
					人	
	The relevant requirements					
	EN 71-1:2011, 4.20 and the		ds		4 1.4	
	and measurement distance	s annly			· · · · · · · · · · · · · · · · · · ·	



01-		C62368_1E - ATTA			M P . (
Clause	Requirement + Test			Result - Remark	Verdict
10.6.1.2	Non-ionizing radiation fro the range 0 to 300 GHz	m radio frequenc	ies in		N/A
	The amount of non-ionizing European Council Recomm of 12 July 1999 on the limits general public to electroma GHz).	endation 1999/519 ation of exposure o	/EC f the		- Fritz
zi ^{ch}	For intentional radiators, IC be taken into account for Li Time-Varying Electric, Mag Electromagnetic Fields (up held and body mounted dev to EN 50360 and EN 50566	miting Exposure to netic, and to 300 GHz). For h vices, attention is d	and-	AT ATTENT	R. C.
10.6.2	Classification of devices	without the capac	ity to e	estimate sound dose	N/A
10.6.2.1	General	4		10t 410	N/A
	This standard is transitionin based (30 s) requirements hour) requirements. These only for devices that do not dose estimation as stipulate	to long-term based clauses remain in e comply with sound	effect		
	For classifying the acoustic measurements are based of equivalent sound pressure	n the A-weighted	eriod.		
	For music where the average term L Aeq, τ) measured over song is lower than the average programme simulation nois be done over the duration of this case, T becomes the d	the duration of the age produced by the e, measurements r of the complete son	e ne nay g. In		
	NOTE Classical music, acoustic mas an average sound pressure (Immuch lower than the average programer if the player is capable compare it with the programme sindoes not need to be given as long	ong term LAeq, r) which is pramme simulation noise to analyse the content a mulation noise, the warr as the average sound	s e. and		- 4
A.C.	pressure of the song does not exc For example, if the player is set wi noise to 85 dB, but the average m 65 dB, there is no need to give a v acknowledgement as long as the song is not above the basic limit o	th the programme simu usic level of the song is varning or ask an average sound level of t f 85 dB.	only	act such	Zint .
10.6.2.2	RS1 limits (to be superse	ded, see 10.6.3.2)			N/A
	RS1 is a class 1 acoustic enot exceed the following: – for equipment provided as its listening device), and with connector between the play	s a package (playe th a proprietary ver and its listening	r with		4 <
	device, or where the combi- listening device is known by setting or automatic detecti	other means such	n as		4. Y



		C62368_1E - ATTACH		
Clause	Requirement + Test		Result - Remark	Verdict
, <u>z</u> i	output shall be ≤ 85 dB wh "programme simulation noi 50332-1. – for equipment provided v connector (for example, a : allows connection to a liste use, the unweighted r.m.s.	se" described in EN vith a standardized 3,5 phone jack) that ening device for genera output voltage shall be		
	 ≤ 27 mV (analogue interface) when playing the simulation noise" described The RS1 limits will be up 	e fixed "programme d in EN 50332-1.	3	
	per 10.6.3.2.			
10.6.2.3	RS2 limits (to be superse	eded, see 10.6.3.3)		N/A
	RS2 is a class 2 acoustic of not exceed the following: — for equipment provided a its listening device), and will connector between the plate device, or when the combinities of the fixed of the fixe	is a package (player with a proprietary yer and its listening nation of player and y other means such as etection, the LAeq, 7 100 dB(A) when playing lation noise" as with a standardized 3,5 phone jack) that ening device for genera output voltage shall be ace) or -10 dBFS (digital fixed "programme")		
10.6.2.4	RS3 limits			N/A
	RS3 is a class 3 acoustic e exceeds RS2 limits.	energy source that		- 30
10.6.3	Classification of devices	(new)	A- (**	N/A
10.6.3.1	General	7		N/A
	Previous limits (10.6.2) cre negative and false positive warnings. New limits, comp Commission Decision of 23 below.	PMP sound level pliant with The		Z. Cot
10.6.3.2	RS1 limits (new)		4	N/A
	RS1 is a class 1 acoustic enot exceed the following: – for equipment provided with its listening device), and account to the plant of	as a package (player nd with a proprietary	s with with	
	connector between the pla device, or where the comb listening device is known b	ination of player and		3 ⁽⁰⁾



	4, 5 E	EC62368_1E - ATTACHM	IENI	
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 of connector (for example, a allows connection to a liste use, the unweighted r.m.s. ≤ 15 mV (analogue interface interface) when playing the simulation noise" describe	nen playing the fixed ise" described in EN with a standardized 3,5 phone jack) that ening device for general output voltage shall be ce) or -30 dBFS (digital e fixed "programme"	t grifft grifft	A THE
10.6.3.3	RS2 limits (new)	d III EN 00002 1.		N/A
	RS2 is a class 2 acoustic of not exceed the following: — for equipment provided a its listening device), and we connector between the plate device, or where the combilistening device is known a setting or automatic detect exposure level, as describeded be ≤ 80 dB when playing the simulation noise describeded a connector (for example, a allows connection to a listen use, the unweighted r.m.s. over one week, as describeded to the connector (digital interface) when plate digital interface) when plate programme simulation not source.	as a package (player with with a proprietary eyer and its listening poination of player and ey other means such as a stion, the weekly sound ed in EN 50332-3, shall the fixed "programme d in EN 50332-1. With a standardized 3,5 phone jack) that ening device for general evice output level, integrated ed in EN50332-3, shall erface) or -30 dBFS bying the fixed ise" described in EN		
10.6.4	Requirements for maxim	um sound exposure		P
10.6.4.1	Measurement methods All volume controls shall b during tests. Measurements shall be made in EN 50332-1 or EN 50332-1	ade in accordance with	with white	P
10.6.4.2	Protection of persons Except as given below, proparts accessible to ordinate persons and skilled persons NOTE 1 Volume control is not control.	otection requirements for ary persons, instructed ons are given in 4.3.	Arith Arith	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 instruction	nary person, the basic ed by an instructional with Clause F.5, except eguard shall be placed be packaging, or in the		



•		C62368_1E - ATTAC	CHMENT		
Clause	Requirement + Test		Re	sult - Remark	Verdict
	given through the equipme	nt display during use		ا لم	
	The elements of the instru	ctional safeguard s	hall		
	be as follows:				
	- element 1a: the symbol	/ ⁽¹⁾ , IEC 60417-60)44		7
	(2011-01)		4		
	– element 2: "High sound p	ressure" or equivale	nt		
	wording - element 3: "Hearing dam	age risk" or equivale	nt		
	wording	age risk of equivalen			
	- element 4: "Do not listen	at high volume levels	s for		
	long periods." or equivalen	t wording			
	An equipment safeguard	shall prevent exposu	re		
	of an ordinary person to a				*
	intentional physical action				
	person and shall automati				4
	level not exceeding what is		4		
	source when the power is	switched oil.			.1
	The equipment shall provide	de a means to activel	y		
	inform the user of the incre	ased sound level wh			
	the equipment is operated				
	exceeding RS1. Any mean acknowledged by the user				
	mode of operation which a				
	exceeding RS1. The acknowledge		ot		
	need to be repeated more	than once every 20 h	of		
	cumulative listening time.				AL
	NOTE 2 Examples of means incl	ude visual or audible signa	ls.		
	Action from the user is always ne				
	NOTE 3 The 20 h listening time is		g		
	time, independent of how often a music player has been switched		_		
	4				+ 2
	A skilled person shall not exposed to RS3.	be unintentionally			
10.6.5	Requirements for dose-b	ased systems	千	3	N/A
10.6.5.1	General requirements				N/A
		7			
	Personal music players sh		as		
	provided below when tested 50332-3, using the limits from				
	50002 o, doing the littles it	om uno dause.			*
	The manufacturer may offe	er optional settings to			
	allow the users to modify v	hen and how they wi	sh		4
	to receive the notifications		note		•
	a better user experience w		d in		
	safeguards. This allows the a method that best meets				/
	and device usage needs. I				
	are offered, an administrat				2 4



Clause	Requirement + Test		Result - Remark	Verdict
	restrictions, business/educa		↓	
	etc.) shall be able to lock ar	ny optional settings into	0	
	a specific configuration.			
	The personal music player	shall be aupplied with		
	The personal music player seasy to understand explana			F 3
	dose management system,			
	how to use the system safe		4 & 5.	
	made aware that other sour			4
	contribute to their sound ex			
	work, transportation, concein			
	races, etc.	7		
10.6.5.2	Dose-based warning and	requirements		N/A
	When a dose of 100 % CSI			
	least at every 100 % further			*
	device shall warn the user a		4	
	acknowledgement. In case			4
	acknowledge, the output level decrease to compliance with		4	•
	decrease to compliance with	i class IVOT.		
	The warning shall at least c	learly indicate that		X+ '
	listening above 100 % CSD		*	
	hearing damage or loss.			
10.6.5.3	Exposure-based requirem	ents	2. 4	N/A
	With only dose-based requi			
	effect could be far separate			
	purpose of educating users			
	practice. In addition to dose PMP shall therefore also put		a	
	term sound level a user can			
	term sound lever a user can	ilotori at.	*	
	The exposure-based limiter	(EL) shall automatica	llv	
	reduce the sound level not			
	150 mV integrated over the			
	methodology defined in EN			F 3
	The EL settling time (time fr		, L	
	reduction to reaching target	output) shall be 10 s	or P	
	faster.			4
	Toot of El. functionality is as	anducted according to		
	Test of EL functionality is co EN 50332-3, using the limits			
	equipment provided as a pa			
	listening device), the level in			
	shall be 100 dB or lower. For			
	with a standardized connec			
	integrated over 180 s shall l			
	for an analogue interface ar	nd no more than -10		
	dBFS for a digital interface.			
	MOTE I	4		
	NOTE In case the source is known signal), the EL may be disabled.	not to be music (or test		L
0.6.6	aignai), the EL may be disabled.	4 2 V	ľ	/43



	Z IE	C62368_1E - ATTAC	HIVIE	:N1	
Clause	Requirement + Test		~	Result - Remark	Verdict
10.6.6.1	Corded listening devices				N/A
	With 94 dB LAeq acoustic polistening device, and with the settings in the listening device volume level control, additional equalization, etc.) set to the positions that maximize the	ne volume and sound ice (for example, buil onal sound features lie combination of measured acoustic	t-in	THE WHEN	A. Cot
	output, the input voltage of when playing the fixed "pro noise" as described in EN 5 mV.	gramme simulation			S. C.
	NOTE The values of 94 dB and 75 and 27 mV or 100 dB and 150 mV		IB	4	
10.6.6.2	Corded listening devices	with digital input		*	N/A
	With any playing device pla "programme simulation nois 50332-1, and with the volur the listening device (for exa	se" described in EN me and sound setting		Aligh Aliv Ai	
	level control, additional sou equalization, etc.) set to the positions that maximize the	and features like e combination of e measured acoustic		not not some	+ <
	output, the LAeq, racoustic of device shall be ≤ 100 dB will dBFS.			§ 7	+ 4
10.6.6.3	Cordless listening device	s			N/A
	In cordless mode,				
	 with any playing and transithe fixed programme simulation 50332-1; and respecting the cordless transition 	ation noise described	in		4
	where an air interface stand the equivalent acoustic leve – with volume and sound so device (for example, built-in	el; and ettings in the receivin n volume level control	g I,	A)	A STEEL
	additional sound features li to the combination of position measured acoustic output f	ons that maximize the or the above mention	e ned	Aigh Ai	↓
	programme simulation nois output of the listening devic an input signal of -10 dBFS	e shall be ≤ 100 dB v			Ties.
10.6.6.4	Measurement method	(N/A
	Measurements shall be ma EN 50332-2 as applicable.	de in accordance wit	h	4,	
3	Modification to the whole	document			N/A



		V 2	IEC	C62368_1E	- ATTACHME	NT		
Clause	R	equirement -	+ Test		4 4	Result - Rem	nark	Verdict
L /	D lis		"country" note	es in the refe	erence docum	ent according	to the following	N/A
	Ç,	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	~ L
		5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	4
		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	
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
		Y.4.5	Note					
		~ >	1	1			y.	
			to Clause 1					Р
	N: el	ectronic equipn	ving note: e of certain subst nent is restricted v					Р
<u></u>		011/65/EU.	TOTAL IS TOSCHOLOU V	viami uio EO. s	Directive -	4		



	A 2	IEC62368_1E - ATTACHME	ENT	
Clause	Requirement + Test	1,00 - 2	Result - Remark	Verdict

5	Modification to 4.Z1				
4.Z1		N/A			
4.21	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):	大			
	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	4			
	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	.1			
	the building installation, provided that the means of				
	protection, e.g. fuses or circuit breakers, is fully				
	specified in the installation instructions.				
	appealing in the installation matractions.				
	If reliance is placed on protection in the building	<i>√ ∀</i>			
	installation, the installation instructions shall so	3			
	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.	公 3			
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:	N/A			
	The requirement for interconnection with external				
7	circuit is in addition given in EN 50491-3:2009.	2			
7	Modification to 10.2.1	N/A			
10.2.1	Add the following to c) and d) in table 39:	N/A			
	For additional requirements, see 10.5.1.				



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

8	Modification to 10.5.1	N/A
10.5.1	Add the following after the first paragraph:	N/A
	A the model and	IN/A
	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.	
	medsdrement is made.	
	NOTE Z1 Soldered joints and paint lockings are examples of	*
	adequate locking.	
		<u> </u>
	The dose-rate is determined by means of a	
	radiation monitor with an effective area of 10 cm ² , at	
	any point 10 cm from the outer surface of the	.4 6
	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.	
	For RS1, the dose-rate shall not exceed 1 μSv/h	
	taking account of the background level.	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13	
9	May 1996. Modification to G.7.1	N/A
G.7.1	Add the following note:	4
5.7.1	Add the following note.	N/A
	NOTE Z1 The harmonized code designations corresponding to	
	the IEC cord types are given in Annex ZD.	



		IEC62368_1E - ATTACHME	:NT	
Clause	Requirement + Test	70 4	Result - Remark	Verdict

10	Modification to Bibliography	N/A
<u>ــــــــــــــــــــــــــــــــــــ</u>	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.	.1
	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.	大 人
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	~ ~
	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 ل
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	- E
	socket-outlet. The marking text in the applicable countries shall be as follows:	4
	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 stikkontakt"	A. C.
	In Sweden : "Apparaten skall anslutas till jordat uttag"	



	F. S. IE	C62368_1E - ATTAC	HMENT	
Clause	Requirement + Test	4	Result - Remark	Verdict
4.7.3	United Kingdom	7	<i>*</i> 3	N/A
	To the end of the subclaus	e the following is adde	ed:	طہ
<u> </u>	The torque test is performe complying with BS 1363, a assessed to the relevant cl see Annex G.4.2 of this an	nd the plug part shall lauses of BS 1363. Als	be	+ 4
5.2.2.2	Denmark		4,	N/A
	After the 2nd paragraph ad	ld the following:	4 4	Zi ^(C)
	A warning (marking safegu current is required if the too limits of 3,5 mA a.c. or 10 r	uch current exceeds th	ne series	
5.4.11.1	Finland and Sweden	100		N/A
and Annex G	To the end of the subclaus	e the following is adde	ed:	Fig. 4
	For separation of the teleco		(4)	A+ <
	If this insulation is solid, inc part of a component, it sha consist of either	Il at least	7101 Fig. 2	
	two layers of thin sheet shall pass the electric s		n	
	one layer having a dista at least 0,4 mm, which s strength test below.		n of	.t .<
	If this insulation forms part component (e.g. an optoco	upler), there is no		
	distance through insulation insulation consisting of an icompletely filling the casing creepage distances do not passes the electric strength the compliance clause below	insulating compound g, so that clearances a exist, if the componer n test in accordance w	nt L	+ 4:00
	 passes the tests and insp with an electric strength by 1,6 (the electric strength performed using 1,5 kV), 	test of 1,5 kV multiplie gth test of 5.4.9 shall t	ed	A. Cot
	and		4	
	is subject to routine test during manufacturing, u kV.			4
	It is permitted to bridge this capacitor complying with E subclass Y2.			Zigt "t



		62368_1E - ATTACHM		
Clause	Requirement + Test		Result - Remark	Verdict
* 4	A capacitor classified Y3 acc 14:2005, may bridge this institute following conditions: the insulation requirement having a capacitor classification.	ulation under as are satisfied by		
	EN 60384-14, which in action is tested with an impulse 5.4.11;	dition to the Y3 testing,		
	 the additional testing shall the test specimens as des 14; 		They They	
4	the impulse test of 2,5 kV is the endurance test in EN 603 sequence of tests as describ	384-14, in the	at with	
5.5.2.1	Norway		2	N/A
	After the 3rd paragraph the fo	ollowing is added:		*
	Due to the IT power system required to be rated for the a voltage (230 V).		STEP WHET S	
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 safe basic insulation in class I p type A shall comply with G.1 G.10.2.	luggable equipment		* F
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	tions where the socket- fuses ting of the socket- ggable	AND AND	Zielli
	equipment type A shall be ar equipment. Justification:	n integral part of the		Z.C.
	In Denmark an existing 13 A protected by a 20 A fuse.	socket outlet can be		•
5.6.4.2.1	Ireland and United Kingdon	m A	7	N/A
	After the indent for pluggabl the following is added: – the protective current rat this being the largest rating of mains plug.	ing is taken to be 13 A,	ster steet	4



		62368_1E - ATTAC			
Clause	Requirement + Test		Re	sult - Remark	Verdict
5.6.4.2.1	France			A 43	N/A
	After the indent for pluggable	le equipment type /	Δ,		
	the following is added:				
~	 in certain cases, the prote the circuit supplied from the instead of 16 A. 			A REP	
5.6.5.1	To the second paragraph the	e following is added:		76.	N/A
	The range of conductor sizes	s of flovible cords to	bo		*
	accepted by terminals for eq				
	current over 10 A and up to				
	1,25 mm ² to 1,5 mm ² in cross	s-sectional area.			
5.6.8	Norway				N/A
	To the end of the subclause	the following is adde	ed:		
	Equipment connected with a	n earthed mains plug	g is		
	classified as class I equipm		y		<u> </u>
	marking requirement in 4.1.1 60417-6092, as specified in				
5.7.6	Denmark	r.s.o.z, is accepted.			N/A
5.7.0	John Mark				IN/A
	To the end of the subclause	the following is adde	ed:		
	The installation instruction sl	hall be affixed to the			
	equipment if the protective				
>	exceeds the limits of 3,5 mA	a.c. or 10 mA d.c.			
5.7.6.2	Denmark				N/A
	To the end of the subclause	the following is adde	ed:		
	The warning (marking safeg				* 3
	current is required if the touc				
	protective current exceed the	e limits of 3,5 mA.			
5.7.7.1	Norway and Sweden				N/A
	To the end of the subclause				
	The screen of the television				
	normally not earthed at the earth and there is normally no equ		ng		
	system within the building.	iipoteritiai boriuirig			
	Therefore the protective eart	thing of the building			*
	installation needs to be isola	ted from the screen	of		
	a cable distribution system.				
	It is however accepted to pro	wide the insulation			
	external to the equipment by				4
	interconnection cable with ga		h		
	may be provided by a retaile				3
	The upor monuel shall the	nava tha fallawing a			
	The user manual shall then I similar information in Norweg				
	language respectively, depe				
	country the equipment is inte				
	4				3° 1
	"Apparatus connected to the	protoctive carthing	of		



	IEC IEC	62368_1E - ATTACHM	IENT	
Clause	Requirement + Test		Result - Remark	Verdict
at Ari	the building installation throuconnection or through other connection to protective earl and to a television distribution cable, may in some circumst hazard. Connection to a teles system therefore has to be produced 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 vof 1,5 kV r.m.s., 50 Hz or 60 Hz, for Translation to Norwegian (the	apparatus with a thing — on system using coaxial tances create a fire vision distribution provided through a colation below a certain colator, see EN 60728- for CATV-installations, and invoide electrical insulation withstand a dielectric strength 1 min.	A ANTER A	Ariet Ariet
	be accepted in Norway): "Apparater som er koplet til I nettplugg og/eller via annet j utstyr – og er tilkoplet et koa nett, kan forårsake brannfare For å unngå dette skal det vapparater til kabel-TV nett in galvanisk isolator mellom ap nettet."	ordtilkoplet ksialbasert kabel-TV e. ed tilkopling av istalleres en	wiet wie	
	Translation to Swedish: "Apparater som är kopplad t 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 ziet	
8.5.4.2.3	United Kingdom Add the following after the 2 paragraph:	nd dash bullet in 3 rd	, dt	N/A
Zilet-	An emergency stop system or requirements of IEC 60204-required where there is a ris	1 and ISO 13850 is	4	at such



Clause	Requirement + Test		Result - Remark	Verdict
Clause	Requirement + Test		Result - Remark	verdict
B.3.1 and B.4	Ireland and United Kingdor	m		N/A
	The following is applicable:		- 4	*
	To protect against excessive circuits in the primary circuit of equipment, tests according to B.4 shall be conducted using	of direct plug-in to Annexes B.3.1 and an external miniature	nat zint	4
	circuit breaker complying with rated 32A. If the equipment of tests, suitable protective devi as an integral part of the dire until the requirements of Ann met	oes not pass these ces shall be included ct plug-in equipment,	A Allet	A. C.
G.4.2	Denmark	A- <		N/A
4	To the end of the subclause to Supply cords of single phase	appliances having a	THE THE T	
	rated current not exceeding 1 with a plug according to DS 6	60884-2-D1:2011.		+ <
	CLASS I EQUIPMENT provide with earth contacts or which a used in locations where protections	are intended to be ection against indirect	THE PLANT AND	
	contact is required according shall be provided with a plug standard sheet DK 2-1a or D	in accordance with	At All	7 4
	If a single-phase equipment If CURRENT exceeding 13 A content of equipment is provided with a plug, this plug shall be in access and ard sheets DK 6-1a in E 60309-2.	or if a polyphase supply cord with a ordance with the	- Aller Aller	
	Mains socket outlets intended to Class II apparatus with a re shall be in accordance DS 60 standard sheet DKA 1-4a.	ated current of 2,5 A	THE FIRST	4iiv
	Other current rating socket or compliance with Standard Shor DKA 1-1c.		ist still	A COL
	Mains socket-outlets with ear compliance with DS 60884-2 Standard Sheet DK 1-3a, DK 5a or DK 1-7a	-D1:2011		
	Justification:			
	Heavy Current Regulations, S	Section 6c		



	IEC62368_	1E - ATTACHME	ENT	•	
Clause	Requirement + Test	30 3	Result - Remark	V	/erdict
G.4.2	United Kingdom	\	ot-		N/A
	To the end of the subclause the follo	owing is added:	- 4		
	The plug part of direct plug-in equipment assessed to BS 1363: Part 1, 12.1, 12.11, 12.12, 12.13, 12.16, and 12.1 the test of 12.17 is performed at not 125 °C. Where the metal earth pin is Insulated Shutter Opening Device (Brequirements of clauses 22.2 and 23.2)	12.2, 12.3, 12.9, 17, except that less than s replaced by an SOD), the	A. Cot	ALERT .	
G.7.1	United Kingdom		.0		N/A
A COLOR	To the first paragraph the following is Equipment which is fitted with a flexic cord and is designed to be connected socket conforming to BS 1363 by me flexible cable or cord shall be fitted with plug' in accordance with the Plugs at (Safety) Regulations 1994, Statutory 1994 No. 1768, unless exempted by regulations. NOTE "Standard plug" is defined in SI 1768:1 means an approved plug conforming to BS 1:1 conversion plug.	ible cable or ed to a mains eans of that with a 'standard nd Sockets etc. / Instrument r those			
G.7.1	Ireland				N/A
	To the first paragraph the following in Apparatus which is fitted with a flexill cord shall be provided with a plug in with Statutory Instrument 525: 1997, and Conversion Adapters for Domes	ble cable or accordance , "13 A Plugs stic Use		A. Cot	
	Regulations: 1997. S.I. 525 provides recognition of a standard of another	Member State		*	
G.7.2	which is equivalent to the relevant Ir Ireland and United Kingdom	ish Standard	*		N/A
A.C.	To the first paragraph the following in A power supply cord with a conductor is allowed for equipment which is rate and up to and including 13 A.	or of 1,25 mm ²	4 ¹		et e



	IEC6	2368_1E - ATTACHM	ENT	
Clause	Requirement + Test	20 5	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEV	IATIONS (EN)	*	N/A
10.5.2	Germany The following requirement appropriate of the operation of any cathor for the display of visual image acceleration voltage exceeding is required, or application of ty approval (Bauartzulassung) a	ode ray tube intended as operating at an ag 40 kV, authorization aype		N/A
and the	Justification: German ministerial decree ag (Röntgenverordnung), in force 2002-07-01, implementing the 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanst 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: https://doi.org/10.1007/1007/1007/1007/1007/1007/1007/1	e since e European Directive talt, Bundesallee 100, D-	Ariet Ariet	THE STATE OF



		IEC62368_1E - ATTACHME	:NT	
Clause	Requirement + Test	- 1	Result - Remark	Verdict

	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE C	ORDS (EN)	N
-4	Type of flexible cord	Code de	signations	N
4,		IEC	CENELEC	
	PVC insulated cords			
X	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
*	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
	Rubber insulated cords			J
	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	•	•	
4	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	F
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 ₹V4-H	
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
4	Cords insulated and sheathed with halogen- free therm oplastic compounds			r
*	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	







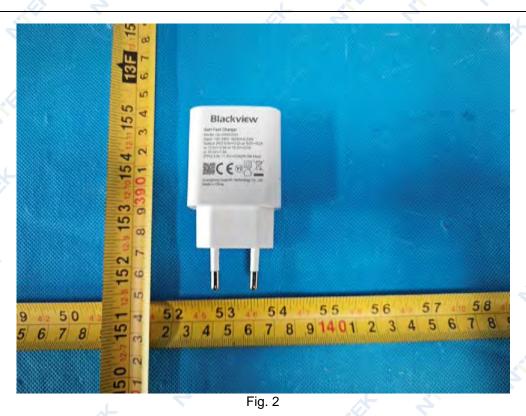






Fig. 3

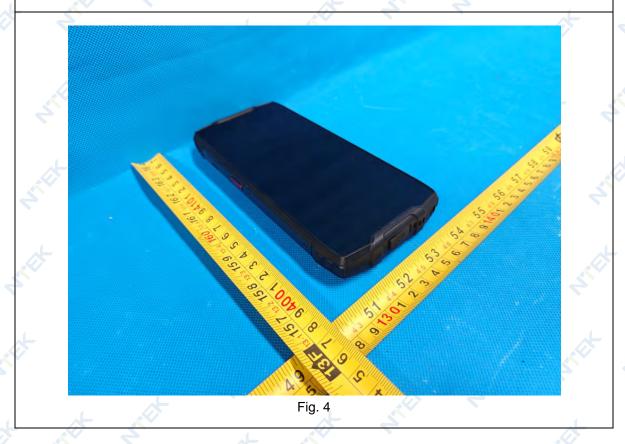






Fig. 5



Fig. 6



Fig. 7



Fig. 8





Fig. 9



Fig. 10

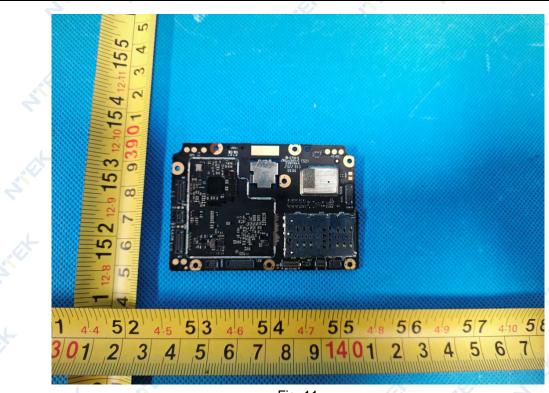


Fig. 11

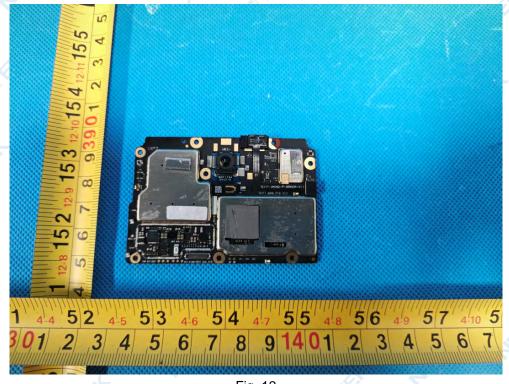


Fig. 12

END OF REPORT