

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for :

Product: Bluetooth speaker Trade Name: N/A Model Name: Date of Test: Aug. 22, 2019 to Sep. 25, 2019 Date of Report: Sep. 25, 2019 Report Number: HK1908302147-SR

P329.252

Prepared By :

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TEST REPORT IEC 62368-1

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

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EN 62368-1:2014+A11:2017		
CE-LVD		
N/A		
IEC62368_1B	TESTING	J TESTING
UL(US)		
2014-03		
em for Conformity Testing and Certif		echnical
	2019-09-25 64 EN 62368-1:2014+A11:2017 CE-LVD N/A IEC62368_1B UL(US) 2014-03 em for Conformity Testing and Certifi	2019-09-25 64 EN 62368-1:2014+A11:2017 CE-LVD N/A IEC62368_1B UL(US) 2014-03 Em for Conformity Testing and Certification of Electrot

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General disclaimer:

The test results presented in this report relate only to the object tested.

Test Item description	Bluetooth speaker
Trade Mark:	N/A
Manufacturer	Same as applicant
Model/Type reference:	BS-171, BS-180, BS-181, BS-182, BS-183, P329.252
Ratings	Input: 5V, 0.5A

IEC62368 1B

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Testing Laboratory:	Shenzhen HUAK Testin	ig Technology C	o., Ltd.
Festing location/ address:	1F, B2 Building, Junfen Park, Heping Communit Shenzhen, China	• • •	
Associated Testing Laboratory:	- TESTING	HUAKIL	resting
Festing location/ address:	O ton	STING	• C3
Fested by (name + signature):	Jason Cheng	Jerr	
Approved by (name + signature):	Dendi Wei	Den	
Testing procedure: TMP/CTF Stage 1:	A sub-	C. Parter	a where
Festing location/ address:			
Fested by (name + signature)	- m.	-	an the
Approved by (name + signature)	V	TESTING	
Testing procedure: WMT/CTF Stage 2:	and a subscription of the	114/TES	THE RUNA TESTIN
Festing location/ address:	0		
Fested by (name + signature)		-the	
Witnessed by (name + signature)	Inclusion Theory	HUAK TE-	HUANTE
Approved by (name + signature):			
Testing procedure: SMT/CTF Stage 3 or 4:	O HUNTER W	0 ***	O HUNK TESTIN
Festing location/ address:	16	of testine	196 - 51W
Tested by (name + signature):	HUNK IL	inches The	A HUNK IL
Witnessed by (name + signature) :		N	
Approved by (name + signature)			
Supervised by (name + signature)	UN TESTA	JAK TESTING	

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List of Attachments (including a total number of pages in each attachment): -Appendix 1: For requirements of European group differences. (9 pages)

-Appendix 2: Photo attachments. (4 pages)

Summary of testing:

Tests performed (name of test and test clause):

All clauses.

Testing location:

Shenzhen HUAK Testing Technology Co., Ltd.

1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Summary of compliance with National Differences: European group differences.

The product fulfils the requirements of EN 62368-1:2014+A11:2017

IEC62368 1B

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Copy of marking plate: The artwork below may be only a draft.

> Bluetooth speaker Model: BS-171 Input: 5V===, 0.5A



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TEST ITEM PARTICULARS:	
Classification of use by	Ordinary person
	Instructed person
	Skilled person
and the second s	Children likely to be present
Supply Connection	AC Mains DC Mains
2	External Circuit - not Mains connected
TESTING AND	- 🛛 ES1 🗌 ES2 🗌 ES3
Supply % Tolerance	+10%/-10%
	□ +20%/-15% □ +%/%
NAMES .	∑ None
Supply Connection – Type:	pluggable equipment type A -
	non-detachable supply cord
	appliance coupler
	direct plug-in
isting isting isting	mating connector
HUNG IN HUNG IN HUNG IN	pluggable equipment type B -
	non-detachable supply cord
TESTING STEELE	appliance coupler
UN TESTING	 □ permanent connection □ mating connector ⊠ other:
Capaidared aurrent rating of protective device as part	A;
Considered current rating of protective device as part of building or equipment installation	Installation location: Duilding; dequipment
Equipment mobility	movable hand-held transportable
O HUNN O HUN	stationary for building-in direct plug- in rack-mounting wall-mounted
Over voltage category (OVC)	
3400 - 3400	□ OVC IV
Class of equipment:	Class I Class II Class III
Access location	□ restricted access location
Pollution degree (PD)	□ PD 1
Manufacturer's specified maxium operating ambient:	<u>25</u> °C
IP protection class	⊠ IPX0 □ IP
Power Systems	⊠ TN □ TT □ IT V _{L-L}
Altitude during operation (m)	🔀 2000 m or less 🔲 m
Altitude of test laboratory (m)	🔀 2000 m or less 🔲 m
Mass of equipment (kg):	⊠ <u>0.11</u> kg
POSSIBLE TEST CASE VERDICTS:	- NUMPERSON - NUMPERSON
- 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)

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GENERAL REMARKS:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

The related applicable OSM decisions have been considered and the quirements found fulfilled

Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	 Yes ☑ Not applicable 	
Mile an difference exists the such all be identified in th	- Or an a start information and the	All Care

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies): Same as applicant

GENERAL PRODUCT INFORMATION:

Product Description –

The product is Bluetooth speaker intended to be indoor use, electronic components mounted on PCB, external enclosure is plastic material of min. V-1 grade.

Maximum recommended ambient (Tmra): 25°C

The product is powered by the certified power supply.

Model Differences -

All models are identical, only different in the model name, so the model BS-171 is selected as representative model for full tests.

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

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICAT	FION TABLE:
(Note 1: Identify the following six (6) energy source forms (Note 2: The identified classification e.g., ES2, TS1, should on the body or its ability to ignite a combustible material. A worse case classification e.g. PS3, ES3.	d be with respect to its ability to cause pain or injury
Electrically-caused injury (Clause 5):	
(Note: Identify type of source, list sub-assembly or circuit of classification) Example: +5 V dc input	designation and corresponding energy source ES1
Source of electrical energy	Corresponding classification (ES)
All circuit	ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and corresp Example: Battery pack (maximum 85 watts):	oonding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
All circuit inside the equipment enclosure	PS1
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces of part of the component evaluation.) Example: Liquid in filled component	cone or other chemical construction not addressed as
Source of hazardous substances	Corresponding chemical
N/A	N1/0
N/A	N/A
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. &	corresponding MS classification based on Table 35.)
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	corresponding MS classification based on Table 35.) MS2
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS)
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners Equipment mass ≤ 7kg	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 nergy source classification based on type of part,
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners Equipment mass ≤ 7kg Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 30	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 nergy source classification based on type of part, 8.)
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners Equipment mass ≤ 7kg Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 3: Example: Hand-held scanner – thermoplastic enclosure	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 nergy source classification based on type of part, 8.) TS1
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners Equipment mass ≤ 7kg Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 3: Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible surfaces which is touched occasionally for	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 mergy source classification based on type of part, 8.) TS1 Corresponding classification (TS)
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners Equipment mass ≤ 7kg Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 3: Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible surfaces which is touched occasionally for very short periods (>1s and <10s)	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 mergy source classification based on type of part, 8.) TS1 Corresponding classification (TS) TS1 TS1 TS1
Mechanically-caused injury (Clause 8)(Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unitSource of kinetic/mechanical energySharp edges and cornersEquipment mass \leq 7kgThermal burn injury (Clause 9)(Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 3: Example: Hand-held scanner – thermoplastic enclosureSource of thermal energyAccessible surfaces which is touched occasionally for very short periods (>1s and <10s)	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 MS2 TS1 Corresponding classification based on type of part, 8.) TS1 TS1 Corresponding classification (TS) TS1 TS1
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners Equipment mass ≤ 7kg Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 3: Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible surfaces which is touched occasionally for very short periods (>1s and <10s)	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 mergy source classification based on type of part, 8.) TS1 Corresponding classification (TS) TS1 Image: TS1 TS1 RS1

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Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure
Ordinary	ES1: All circuits inside the equipment.	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. Wireless Keyboard enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment fire enclosure	PS1: All circuits inside the equipment.	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
7.1	Injury caused by hazardous	s substances		
Body Part	Energy Source		Safeguards	
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforce
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A -	N/A	N/A
8.1	Mechanically-caused injury	,		
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure
Ordinary	MS1: no sharp edges and corners	N/A	N/A	N/A
Ordinary	MS1: equipment mass < 7kg	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary	TS1: Accessible surfaces	N/A	o N/A	N/A
N/A	N/A	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
Ordinary	RS1: voice	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P
4.1.2	Use of components	See table 4.1.2	Р
4.1.3	Equipment design and construction	No accessible part which could cause injury	P
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	See below	Р
4.4.4.2	Steady force tests	(See Annex T.4, T.5)	N/A
4.4.4.3	Drop tests	(See Annex T.7)	N/A
4.4.4.4	Impact tests:	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No internal enclosure.	N/A
4.4.4.6	Glass Impact tests	No such glass used.	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	(See Annex T)	N/A
4.4.4.9	Accessibility and safeguard effectiveness	After test, all safeguard remains effective, No damaged	N/A
4.5	Explosion	No explosion	Р
4.6	Fixing of conductors	res	N/A
4.6.1	Fix conductors not to defeat a safeguard	All conductive parts are fixed on PCB by at least two soldering points;	N/A
4.6.2	10 N force test applied to	Applied 10 N force, no loosen	N/A
4.7	Equipment for direct insertion into mains socket - outlets	Complied with relative plug test details see Summary of testing in page 3.	N/A
4.7.2	Mains plug part complies with the relevant standard	0,	N/A
4.7.3	Torque (Nm):		N/A
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.2	Instructional safeguard	0	N/A
4.8.3	Battery Compartment Construction	anne	N/A

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	101	1100
Requirement + Test	Result - Remark	Verdict
Means to reduce the possibility of children removing the battery:	STAR STAR	
Battery Compartment Mechanical Tests:	(See Table 4.8.4)	N/A
Battery Accessibility	- Oka	N/A
Likelihood of fire or shock due to entry of conductive object	(See Annex P)	N/A
	Means to reduce the possibility of children removing the battery: Battery Compartment Mechanical Tests Battery Accessibility Likelihood of fire or shock due to entry of	Means to reduce the possibility of children removing the battery Battery Compartment Mechanical Tests Battery Accessibility Likelihood of fire or shock due to entry of (See Annex P)

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current:	5VDC	Р
5.2.2.3	Capacitance limits:		N/A
5.2.2.4	Single pulse limits:	No such single pulses with the EUT	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses with the	N/A
5.2.2.6	Ringing signals:	No such ringing signals with the EUT	N/A
5.2.2.7	Audio signals:	0	Р
5.3	Protection against electrical energy sources	aller TEST	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 could be accessible to ordinary person.	N/A
5.3.2.2	Contact requirements	-10-	N/A
HUNKTER	a) Test with test probe from Annex V	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
W TEST	b) Electric strength test potential (V):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
	c) Air gap (mm):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals intended to be used by ordinary person.	N/A
5.4	Insulation materials and requirements		Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.2	Properties of insulating material	The choice and application have taken into account as specified in this Clause 5 and Annex T except natural rubber, hygroscopic materials or asbestos are not used as insulation.	un restañs P
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	N/A
5.4.1.5	Pollution degree:	Pollution degree 2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2	N/A
5.4.1.5.3	Thermal cycling	Pollution degree 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions	-010	N/A
5.4.1.7	Insulation in circuits generating starting pulses	HUAL TH	N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces	Considered.	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	See below	N/A
5.4.1.10.2	Vicat softening temperature:	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances	a numerica and the	N/A
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A
5.4.2.3	Determining clearance using required withstand voltage:	(See appended table 5.4.2.3)	N/A
HUAKIL	a) a.c. mains transient voltage	HUAL IL	
	b) d.c. mains transient voltage:		
K TESTING	c) external circuit transient voltage:	and Testine	
2	d) transient voltage determined by measurement	O nutro	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	C Martine C	N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	N/A
5.4.3.1	General	and and	N/A
5.4.3.3	Material Group	IIIb	
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	N/A

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5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	IESTIN'	N/A
5.4.4.5	Cemented joints	<u> </u>	N/A
5.4.4.6	Thin sheet material	STAG	N/A
5.4.4.6.1	General requirements	in the second second	N/A
5.4.4.6.2	Separable thin sheet material	0 m	N/A
99 9	Number of layers (pcs):	A TESTING	N/A
5.4.4.6.3	Non-separable thin sheet material	THE OFFICE	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	- critic	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	S HUGH IN	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
NG.	Insulation resistance (MΩ):		
5.4.6	Insulation of internal wire as part of supplementary safeguard:	(See appended table 5.4.4.2)	N/A
5.4.7	Tests for semiconductor components and for cemented joints	O non in	N/A
5.4.8	Humidity conditioning		N/A
TESTING	Relative humidity (%)	ister ister	
HUAN	Temperature (°C):	C INCO	
alG	Duration (h):	- Alex	—
5.4.9	Electric strength test:	(See appended table 5.4.9)	N/A
5.4.9.1	Test procedure for a solid insulation type test	a nuar i	N/A
5.4.9.2	Test procedure for routine tests	-51146	N/A
5.4.10	Protection against transient voltages between external circuit	THE PROFILE	N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	dia dia	N/A
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.11	Insulation between external circuits and earthed circuitry	(See appended table 5.4.9)	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	O roam O	N/A
5.4.11.2	Requirements	1 TESTING	N/A
	Rated operating voltage U _{op} (V):		
G	Nominal voltage U _{peak} (V):		
	Max increase due to variation U _{sp} :	- minerter	
TESTIN	Max increase due to ageing ΔU_{sa} :	STARS C STARS	
O HOME	U_{op} = U_{peak} + ΔU_{sp} + ΔU_{sa} :	0 10 ^m 0 1	
5.5	Components as safeguards	· · · · ·	
5.5.1	General	240-	N/A
5.5.2	Capacitors and RC units	IC. HUALTE	N/A
5.5.2.1	General requirement	Next Next	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(See Annex G.5.3)	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth	TESTAN	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A
5.6	Protective conductor	e mune	N/A
5.6.2	Requirement for protective conductors	O HOME	N/A
5.6.2.1	General requirements	A TESTING	N/A
5.6.2.2	Colour of insulation	STARE OFFICE	N/A
5.6.3	Requirement for protective earthing conductors	rune it.	N/A
()	Protective earthing conductor size (mm ²)		
5.6.4	Requirement for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors	ISTNO NESTNO	N/A
1 HOL	Protective bonding conductor size (mm ²)	0	—
200	Protective current rating (A)	200-	

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IEC 62368-1 Clause **Result - Remark** Requirement + Test Verdict 5.6.4.3 Current limiting and overcurrent protective N/A devices 5.6.5 Terminals for protective conductors N/A 5.6.5.1 Requirement N/A Conductor size (mm²), nominal thread diameter N/A (mm).: 5.6.5.2 Corrosion N/A 5.6.6 Resistance of the protective system N/A 5.6.6.1 Requirements N/A 5.6.6.2 (See appended table 5.6.6.2) N/A Test Method Resistance (Ω)..... 5.6.7 Reliable earthing N/A 5.7 Prospective touch voltage, touch current and protective conductor current N/A 5.7.2 Measuring devices and networks N/A 5.7.2.1 Measurement of touch current: N/A 5.7.2.2 Measurement of prospective touch voltage N/A 5.7.3 Equipment set-up, supply connections and earth N/A connections System of interconnected equipment (separate connections/single connection) Multiple connections to mains (one connection at a time/simultaneous connections): 5.7.4 Earthed conductive accessible parts (See appended Table 5.7.4) N/A 5.7.5 Protective conductor current N/A Supply Voltage (V)..... Measured current (mA)..... Instructional Safeguard..... (See F.4 and F.5) N/A 5.7.6 Prospective touch voltage and touch current due N/A to external circuits 5.7.6.1 Touch current from coaxial cables N/A 5.7.6.2 Prospective touch voltage and touch current from N/A external circuits 5.7.7 Summation of touch currents from external N/A circuits a) Equipment with earthed external circuits N/A Measured current (mA)..... b) Equipment whose external circuits are not N/A referenced to earth. Measured current (mA):

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Clause	Requirement + Test	Result - Remark	Verdict
Clause	requirement i rest		Verdice
6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ig	nition sources (PIS)	P
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits.	P
6.2.2.1	General	anne -	Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	P
6.2.2.4	PS1:	2.25W after 3s	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	N/A
6.2.2.6	PS3	IESTIN MULTESTIN	N/A
6.2.3	Classification of potential ignition sources	65. K	N/A
6.2.3.1	Arcing PIS:		N/A
6.2.3.2	Resistive PIS:		N/A
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	N/A
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	STRE RUN TESTIC	N/A
6.3.1 (b)	Combustible materials outside fire enclosure	0,404. 0,4	N/A
6.4	Safeguards against fire under single fault conditions		N/A
6.4.1	Safeguard Method	Method control fire spead and approved fire enclosure used.	N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	0,	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	HUARTISTIC AND	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	ALASTICS TON	N/A
MAK TESTIN	Special conditions if conductors on printed boards are opened or peeled	and the automations	N/A
6.4.3.3	Single Fault Conditions :	0	N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	PS1 circuits inside the quipement.	Р
6.4.5	Control of fire spread in PS2 circuits	in the second se	N/A
6.4.5.2	Supplementary safeguards:		N/A

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IEC 62368-1 Clause **Result - Remark** Requirement + Test Verdict 6.4.6 Control of fire spread in PS3 circuit PS1 circuits inside the equipment. N/A 6.4.7 Separation of combustible materials from a PIS No separation. N/A 6.4.7.1 N/A General..... 6.4.7.2 Separation by distance N/A 6.4.7.3 Separation by a fire barrier N/A 6.4.8 N/A Fire enclosures and fire barriers 6.4.8.1 Fire enclosure and fire barrier material properties N/A 6.4.8.2.1 Requirements for a fire barrier N/A 6.4.8.2.2 N/A Requirements for a fire enclosure 6.4.8.3 Constructional requirements for a fire enclosure N/A and a fire barrier 6.4.8.3.1 Fire enclosure and fire barrier openings N/A 6.4.8.3.2 Fire barrier dimensions N/A 6.4.8.3.3 Top Openings in Fire Enclosure: dimensions N/A (mm): Needle Flame test N/A 6.4.8.3.4 Bottom Openings in Fire Enclosure, condition met N/A a), b) and/or c) dimensions (mm): Flammability tests for the bottom of a fire N/A enclosure 6.4.8.3.5 Integrity of the fire enclosure, condition met: a), N/A b) or c): 6.4.8.4 Separation of PIS from fire enclosure and fire N/A barrier distance (mm) or flammability rating: Internal and external wiring 6.5 N/A 6.5.1 Requirements UL certificated internal wire provided. (see appended table N/A 4.1.2) 6.5.2 Cross-sectional area (mm²): See above. 6.5.3 Requirements for interconnection to building N/A wiring: 6.6 Safeguards against fire due to connection to N/A additional equipment External port limited to PS2 or complies with (See Annex Q.1) N/A Clause Q.1

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7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
~		the equipment.	
7.3	Ozone exposure	ISTNO AT ISTNO	N/A
7.4	Use of personal safeguards (PPE)	0,000	N/A
-STING	Personal safeguards and instructions:	TING	
7.5	Use of instructional safeguards and instructions	HUNK	N/A
	Instructional safeguard (ISO 7010):	C Hunne	
7.6	Batteries:	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General	See the following details.	Р
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1 Equipment maximum mass < 7 kg, classified as MS1	P
8.3	Safeguards against mechanical energy sources	465a.'' 465a	N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	P
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts within the equipment.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	O HUNTE OF	N/A
8.5.2	Instructional Safeguard :		
8.5.4	Special categories of equipment comprising moving parts	TESTRA-	N/A
8.5.4.1	Large data storage equipment	0.0	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	A MAKITOSING	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	a num	N/A
8.5.4.2.2	Instructional safeguards against moving parts	TESTING	N/A
	Instructional Safeguard	The Meller	_
8.5.4.2.3	Disconnection from the supply	- HUAK TED	N/A
8.5.4.2.4	Probe type and force (N)		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification	restrict verestrict	N/A
8.5.5.2	High Pressure Lamp Explosion Test	0,0,0	N/A
8.6	Stability	- Gin.	N/A

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8.6.1	Product classification		N/A
AN TESTARD	Instructional Safeguard	ESTAND	
8.6.2	Static stability	0,*** 0	N/A
8.6.2.2	Static stability test	STING	N/A
	Applied Force:	A HUMPLE	_
8.6.2.3	Downward Force Test	0	N/A
8.6.3	Relocation stability test	NY TESTING	N/A
-571	Unit configuration during 10° tilt:	mis and	
8.6.4	Glass slide test	HUMPERS OF	N/A
8.6.5	Horizontal force test (Applied Force):		N/A
20	Position of feet or movable parts:	ðu.	
8.7	Equipment mounted to wall or ceiling	ESTAND IN TESTAND	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength		N/A
8.8.1	Classification	rs500G	N/A
8.8.2	Applied Force:	ALC HURST	N/A
8.9	Wheels or casters attachment requirements	UMA TESTIN	N/A
8.9.1	Classification	0	N/A
8.9.2	Applied force:		
8.10	Carts, stands and similar carriers	STAR ISTAR	N/A
8.10.1	General	O HUNNER	N/A
8.10.2	Marking and instructions	ilin.	N/A
KTESI	Instructional Safeguard:	- WAXTES !!	
8.10.3	Cart, stand or carrier loading test and compliance	C HUAK	N/A
jû.	Applied force:	-STING	
8.10.4	Cart, stand or carrier impact test	NG PURC	N/A
8.10.5	Mechanical stability	ALAKTES IN A M	N/A
0	Applied horizontal force (N):	0	
8.10.6	Thermoplastic temperature stability (°C):		N/A
8.11	Mounting means for rack mounted equipment	ESTING TESTING	N/A
8.11.1	General	O MUNICI	N/A
8.11.2	Product Classification		N/A

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Requirement + Test	Result - Remark	Verdict
Mechanical strength test, variable N		N/A
Mechanical strength test 250N, including end stops	TESTING AND TESTING	N/A
Telescoping or rod antennas	(See Annex T)	N/A
Button/Ball diameter (mm)	Button diameter: Appro. 7.8mm	
	Mechanical strength test, variable <i>N</i> Mechanical strength test 250N, including end stops Telescoping or rod antennas	Mechanical strength test, variable N Mechanical strength test 250N, including end stops Telescoping or rod antennas (See Annex T)

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	All accessible surfaces are classified as TS1, see appended table 5.4.1.4, 6.3.2, 9.0, B.2.6.	Р
9.3	Safeguard against thermal energy sources		Р
9.4	Requirements for safeguards		Р
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard:		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		P
10.2.1	General classification	RS1	Р
10.3	Protection against laser radiation	10K TESTIN	N/A
STR	Laser radiation that exists equipment:	me or	
Con HUPPL	Normal, abnormal, single-fault:	A HUNNING MIL	N/A
	Instructional safeguard:		
	Tool:		
10.4	Protection against visible, infrared, and UV radiation	CSI.	N/A
10.4.1	General	- 10 m	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	- winter	_{⊲o} ⊙ N/A
10.4.1.b)	RS3 accessible to a skilled person:	C HUART	N/A
ġ.	Personal safeguard (PPE) instructional safeguard:	- WAS TESTING	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	ins and	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	O Martin O M	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque		N/A
10.4.1.f)	UV attenuation:	resting resting	N/A
10.4.1.g)	Materials resistant to degradation UV:	0 **** 0	N/A
10.4.1.h)	Enclosure containment of optical radiation:	- Bin.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.i)	Exempt Group under normal operating conditions	esting resting	N/A
10.4.2	Instructional safeguard:	O.*****	N/A
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment :	- MARY TES	N/A
	Normal, abnormal, single fault conditions	Contract in	N/A
è.	Equipment safeguards:	sma	N/A
	Instructional safeguard for skilled person:	NG MUAN	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	O PURCTESING O PU	_
	Abnormal and single-fault condition:		N/A
	Maximum radiation (pA/kg):		N/A
10.6	Protection against acoustic energy sources	15 M	P
10.6.1	General	100. ISS.	Р
10.6.2	Classification		Р
	Acoustic output, dB(A):	<85Db(A)	P
	Output voltage, unweighted r.m.s:	<27mV	Р
10.6.4	Protection of persons	ACTESTING	N/A
-TR	Instructional safeguards:	mus one	N/A
O HUAK TU	Equipment safeguard prevent ordinary person to RS2	O HUNCIN O HU	—
-Je	Means to actively inform user of increase sound pressure:		—
HUAKTEST	Equipment safeguard prevent ordinary person to RS2	Con O HUNCTED	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	UN TESTINE	N/A
10.6.5.1	Corded passive listening devices with analog input	O IN O PURTE	N/A
	Input voltage with 94 dB(A) <i>L</i> _{Aeq} acoustic pressure output:	ING MUSICISSION	
10.6.5.2	Corded listening devices with digital input	and the state	N/A
0	Maximum dB(A)	0	
10.6.5.3	Cordless listening device		N/A
and	Maximum dB(A):	قيب قيب	

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Clause	Requirement + Test	Result - Remark	Verdic
В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		P
B.2	Normal Operating Conditions	O WAY	^{AUAC} P
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers	C HOLE O HOLE T	Р
B.2.3	Supply voltage and tolerances	TESTING	N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	- HURN-TCC	Р
B.3.1	General requirements:	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings provided.	N/A
B.3.3	D.C. mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector:	No setting of voltage selector within the EUT	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3&B.4)	N/A
B.3.6	Reverse battery polarity	- O.W.	Р
B.3.7	Abnormal operating conditions as specified in Clause E.2.	NG BINUM TESTING	Р
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	N/A
B.4	Simulated single fault conditions		Р
B.4.2	Temperature controlling device open or short- circuited	No such device.	N/A
B.4.3	Motor tests	No motor within the EUT	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation	O P	N/A
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.3&B.4)	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3&B.4)	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	O muner Or	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.3&B.4)	Р
B.4.6	Short circuit or disconnect of passive components	(See appended table B.3&B.4)	P
B.4.7	Continuous operation of components	No such component	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	ISTING ISTING	P
B.4.9	Battery charging under single fault conditions :	(See appended table B.3&B.4)	P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	a maxim	N/A
C.1.2	Requirements	0.1	N/A
C.1.3	Test method	TEST I	N/A
C.2	UV light conditioning test	STARS OF THE	N/A
C.2.1	Test apparatus	C HUMAN C H	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus	10510	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	Р
E.1	Audio amplifier normal operating conditions	STARE OF THE	Р
HUAK TLA	Audio signal voltage (V):	HUME IN SHE	
e	Rated load impedance (Ω):		
E.2	Audio amplifier abnormal operating conditions		Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	or. 6	Р
K TESTING	Instructions – Language:	Evaluated the user manual in English version. The manufacturer commits to provide them in the language of the countries where the product will be distributed.	_
F.2	Letter symbols and graphical symbols	IN HUNK TE	Р
F.2.1	Letter symbols according to IEC60027-1	STATES INC.	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	On the product	Р
F.3.2	Equipment identification markings	0,*** 0	Р
F.3.2.1	Manufacturer identification	See marking	_

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JUNK TES	IEC 62368-1	UNK TEST	LAK IL
Clause	Requirement + Test	Result - Remark	Verdict
F.3.2.2	Model identification:	Marked	
F.3.3	Equipment rating markings	(ESING)	Р
F.3.3.1	Equipment with direct connection to mains	Considered	Р
F.3.3.2	Equipment without direct connection to mains	STING	N/A
F.3.3.3	Nature of supply voltage:	See marking	
F.3.3.4	Rated voltage	See marking	
F.3.3.4	Rated frequency	AS TESTING	
F.3.3.6	Rated current or rated power	See marking	
F.3.3.7	Equipment with multiple supply connections	A HUNCE OF	N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	CESTING RANGE TESTING	N/A
F.3.5.2	Switch position identification marking		N/A
F.3.5.3	Replacement fuse identification and rating markings		N/A
F.3.5.4	Replacement battery identification marking :		N/A
F.3.5.5	Terminal marking location	all KIES	N/A
F.3.6	Equipment markings related to equipment classification	and a surrespice	N/A
F.3.6.1	Class I Equipment	0	N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Neutral conductor terminal	ISTR. I ISTR.	N/A
F.3.6.1.3	Protective bonding conductor terminals	O NUM	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	200	N/A
F.3.6.2.1	Class II equipment with or without functional earth	HUAN TES	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	and and and	N/A
F.3.7	Equipment IP rating marking:	IPX0	_
F.3.8	External power supply output marking	Marked on the label	P
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	Р
F.3.10	Test for permanence of markings	Complied	Р
F.4	Instructions	CITE HUAK I	NOR P

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Clause	Requirement + Test	Result - Remark	Verdict
HURKTESTING	a) Equipment for use in locations where children not likely to be present - marking	The accessibility of equipment was evaluated by using test probe of Figure V.2.	P
K TESTING	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	P
	c) Equipment intended to be fastened in place	See above.	P
ą	d) Equipment intended for use only in restricted access area	The EUT is not such type equipment	N/A
HUNK TEST	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	No such terminals provided.	N/A
	f) Protective earthing employed as safeguard	Class III equipment	N/A
WAX TESTING	g) Protective earthing conductor current exceeding ES 2 limits	Class III equipment	N/A
	h) Symbols used on equipment	Complied	Р
CTESTING	i) Permanently connected equipment not provided with all-pole mains switch	The EUT is not a permanently connected equipment	N/A
j) ©	j) Replaceable components or modules providing safeguard function	No replaceable components	N/A
F.5	Instructional safeguards	No instructional safeguard is considered as necessary.	N/A
O RURA TO	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	No instructional safeguard required in the equipment.	N/A
G	COMPONENTS		N/A
G.1	Switches	(ES).	N/A
G.1.1	General requirements	No such switch as disconnect devices provided within the equipment.	N/A
G.1.2	Ratings, endurance, spacing, maximum load	O Marine and the	N/A
G.2	Relays	- and	N/A
G.2.1	General requirements	No such relay provided within the equipment.	N/A
G.2.2	Overload test	- HUAK THE	N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices	TESTING ST TESTING	N/A
G.3.1	Thermal cut-offs	(a) 10 ¹⁰ (b)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	ESTING ESTING	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	0,000	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	a nume restruct	N/A
G.3.2	Thermal links	O HULL	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	TESTING	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	THE OFFICE	N/A
- HUAK TED	Aging hours (H):	- HUAKTEE	_
Ś	Single Fault Condition:		
	Test Voltage (V) and Insulation Resistance (Ω). :		
G.3.3	PTC Thermistors	ESTING TESTING	N/A
G.3.4	Overcurrent protection devices	. A ^{nit} A	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	o G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A
G.4	Connectors	IN INVESTIGATION	N/A
G.4.1	Spacings	STAR OF A TESTING	N/A
G.4.2	Mains connector configuration:	0,00,00,00,00,00,00,00,00,00,00,00,00,0	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound Components	CTS The ATS TRAC	N/A
G.5.1	Wire insulation in wound components	(See Annex J)	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Insulation tube used as physical separation	N/A
G.5.1.2 b)	Construction subject to routine testing	C Indiana	N/A
G.5.2	Endurance test on wound components	JING W	N/A
G.5.2.1	General test requirements	NG MUNKING	N/A
G.5.2.2	Heat run test	STATE STATE	N/A
0	Time (s):	0,	
	Temperature (°C):		_
G.5.2.3	Wound Components supplied by mains	-1046	N/A
G.5.3	Transformers	IN DAY TEL	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)	- CTING	N/A

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IEC 62368-1 Clause **Result - Remark** Requirement + Test Verdict Position....: Method of protection: G.5.3.2 Insulation N/A Protection from displacement of windings.....: G.5.3.3 Overload test: N/A Test conditions G.5.3.3.1 N/A G.5.3.3.2 N/A Winding Temperatures testing in the unit G.5.3.3.3 Winding Temperatures - Alternative test method N/A N/A G.5.4 Motors G.5.4.1 General requirements N/A Position: G.5.4.2 **Test conditions** N/A G.5.4.3 N/A Running overload test G.5.4.4 Locked-rotor overload test N/A Test duration (days): G.5.4.5 Running overload test for d.c. motors in N/A secondary circuits G.5.4.5.2 Tested in the unit N/A Electric strength test (V)..... G.5.4.5.3 Tested on the Bench - Alternative test method; N/A test time (h): Electric strength test (V).....: G.5.4.6 Locked-rotor overload test for d.c. motors in N/A secondary circuits G.5.4.6.2 Tested in the unit N/A Maximum Temperature N/A N/A Electric strength test (V): G.5.4.6.3 Tested on the bench - Alternative test method; N/A test time (h): N/A Electric strength test (V).....: G.5.4.7 N/A Motors with capacitors G.5.4.8 N/A Three-phase motors G.5.4.9 N/A Series motors Operating voltage G.6 Wire Insulation N/A G.6.1 General N/A

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HOAK TES	IEC 62368-1	I WAY TES	1 ALL
Clause	Requirement + Test	Result - Remark	Verdic
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords	KTESTING INKTESTING	N/A
G.7.1	General requirements	0	N/A
GTING	Туре:	5706	
	Rated current (A)	in when	
	Cross-sectional area (mm ²), (AWG):	O mart	
G.7.2	Compliance and test method	N/TS/ING	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	STALE OF THE THE THE OF THE	N/A
G.7.3.2	Cord strain relief	0	N/A
G.7.3.2.1	Requirements		N/A
~STING	Strain relief test force (N):	-stille -stille	
G.7.3.2.2	Strain relief mechanism failure	S HUNN	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry:	(See appended table 5.4.11.1)	N/A
G.7.5	Non-detachable cord bend protection	- This	N/A
G.7.5.1	Requirements	NG PUAK	N/A
G.7.5.2	Mass (g):	and the state of t	
0	Diameter (m):	0	
	Temperature (°C):		
G.7.6	Supply wiring space	-STAN - STAN	N/A
G.7.6.2	Stranded wire	a when	N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors	6 UAKTESIN	N/A
G.8.1	General requirements	C mulari	N/A
G.8.2	Safeguard against shock	- the	N/A
G.8.3	Safeguard against fire	PLAK IN	N/A
G.8.3.2	Varistor overload test:	(See appended table B.3)	N/A
G.8.3.3	Temporary overvoltage	(See appended table B.3)	N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	onthic control	N/A
G.9.1 b)	Limiters do not have manual operator or reset	IL. INDETE	N/A
G.9.1 c)	Supply source does not exceed 250 VA:		

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IEC 62368-1 **Result - Remark** Clause Requirement + Test Verdict G.9.1 d) IC limiter output current (max. 5A): G.9.1 e) Manufacturers' defined drift: G.9.2 **Test Program 1** N/A G.9.3 **Test Program 2** N/A G.9.4 **Test Program 3** N/A G.10 Resistors N/A G.10.1 N/A **General requirements** G.10.2 Resistor test N/A G.10.3 Test for resistors serving as safeguards between the mains and an external circuit consisting of a N/A coaxial cable G.10.3.1 General requirements N/A G.10.3.2 Voltage surge test N/A G.10.3.3 N/A Impulse test G.11 N/A **Capacitor and RC units** G.11.1 N/A General requirements G.11.2 Conditioning of capacitors and RC units N/A G.11.3 Rules for selecting capacitors N/A G.12 N/A **Optocouplers** Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option N/A and test results).....: Type test voltage Vini: Routine test voltage, Vini,b G.13 **Printed boards** N/A G.13.1 General requirements N/A G.13.2 Uncoated printed boards N/A G.13.3 Coated printed boards N/A G.13.4 Insulation between conductors on the same inner N/A surface Compliance with cemented joint requirements (Specify construction).....: G.13.5 Insulation between conductors on different N/A surfaces (See appended table 5.4.4.5) N/A Distance through insulation Number of insulation layers (pcs): G.13.6 N/A Tests on coated printed boards

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Clause	Requirement + Test	Result - Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning	Testines	N/A
G.13.6.2b)	Electric strength test	0 0	N/A
G.13.6.2c)	Abrasion resistance test	STRO	N/A
G.14	Coating on components terminals	S HUAK C	N/A
G.14.1	Requirements	(See G.13)	N/A
G.15	Liquid filled components	1 TESTING	N/A
G.15.1	General requirements	TING O HUM	N/A
G.15.2	Requirements	HUM TEST	N/A
G.15.3	Compliance and test methods	0	N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test	IESTING IESTING	N/A
G.15.3.3	Tubing and fittings compatibility test	A not A	N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test	·	N/A
G.15.4	Compliance	-STAR	N/A
G.16	IC including capacitor discharge function (ICX)	THE MINING	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	O HUM TON ON	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage:		N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	CESTRA-	N/A
C2)	Test voltage		_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	O MARTIEST	N/A
D2)	Capacitance:	TESTING	
D3)	Resistance:	THE OHUM	
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	(i)	N/A
H.2	Method A		N/A
H.3	Method B	ESTING ESTING	N/A
H.3.1	Ringing signal	in the second se	N/A
H.3.1.1	Frequency (Hz)		

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IEC 62368-1 **Result - Remark** Clause Requirement + Test Verdict H.3.1.2 Voltage (V) H.3.1.3 Cadence; time (s) and voltage (V) H.3.1.4 Single fault current (mA):..... H.3.2 Tripping device and monitoring voltage: N/A H.3.2.1 Conditions for use of a tripping device or a N/A monitoring voltage complied with H.3.2.2 **Tripping device** N/A H.3.2.3 Monitoring voltage (V) INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION .1 N/A **General requirements** (See separate test report) N/A Κ SAFETY INTERLOCKS N/A K.1 N/A General requirements K.2 Components of safety interlock safeguard (See Annex G) N/A mechanism K.3 Inadvertent change of operating mode N/A Interlock safeguard override K.4 N/A K.5 Fail-safe N/A N/A Compliance: (See appended table B.4) K.6 N/A Mechanically operated safety interlocks K.6.1 Endurance requirement N/A K.6.2 Compliance and Test method: N/A K.7 N/A Interlock circuit isolation K.7.1 Separation distance for contact gaps & interlock N/A circuit elements (type and circuit location): K.7.2 Overload test, Current (A).....: N/A K.7.3 Endurance test N/A K.7.4 N/A Electric strength test (See appended table 5.4.11) **DISCONNECT DEVICES** N/A L.1 General requirements DC connector N/A L.2 N/A Permanently connected equipment L.3 Parts that remain energized N/A L.4 N/A Single phase equipment L.5 N/A Three-phase equipment L.6 Switches as disconnect devices N/A L.7 Plugs as disconnect devices N/A

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Clause	Requirement + Test	Result - Remark	Verdic
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements		Р
M.2.2	Compliance and test method (identify method) :		Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		Р
	- Excessive discharging rate for any battery		Р
M.3.3	Compliance	(See appended Tables and Annex M and M.4)	Ρ
M.4	Additional safeguards for equipment containing secondary lithium battery		Ρ
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	_
M.4.2.2 b)	Single faults in charging circuitry	(See Annex B.4)	_
M.4.3	Fire Enclosure		Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Ρ
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A

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IEC 62368-1 **Result - Remark** Clause Requirement + Test Verdict **M.6** Prevention of short circuits and protection from Ρ other effects of electric current M.6.1 Short circuits Ρ Р M.6.1.1 General requirements M.6.1.2 Test method to simulate an internal fault Ρ M.6.1.3 Compliance (Specify M.6.1.2 or alternative N/A method): M.6.2 Leakage current (mA) N/A **M.7** Risk of explosion from lead acid and NiCd N/A **batteries** M.7.1 Ventilation preventing explosive gas N/A concentration M.7.2 Compliance and test method N/A **M.8** Protection against internal ignition from external N/A spark sources of lead acid batteries M.8.1 General requirements N/A M.8.2 Test method N/A M.8.2.1 N/A General requirements M.8.2.2 Estimation of hypothetical volume Vz (m³/s).....: M.8.2.3 Correction factors.....: M.8.2.4 Calculation of distance d (mm): **M.9** Ρ Preventing electrolyte spillage Ρ M.9.1 Protection from electrolyte spillage M.9.2 Tray for preventing electrolyte spillage N/A M.10 N/A Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing): **ELECTROCHEMICAL POTENTIALS** N/A Ν Pollution degree considered Metal(s) used MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES Ρ 0 Figures 0.1 to 0.20 of this Annex applied: SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF P Ρ **INTERNAL LIQUIDS** P.1 General requirements Ρ P.2.2 Ρ Safeguards against entry of foreign object Location and Dimensions (mm): 3mm

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IEC 62368-1 **Result - Remark** Clause Requirement + Test Verdict P.2.3 Safeguard against the consequences of entry of N/A foreign object P.2.3.1 Safeguards against the entry of a foreign object N/A Р Openings in transportable equipment N/A Transportable equipment with metalized plastic parts P.2.3.2 N/A Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard): P.3 Safeguards against spillage of internal liquids N/A P.3.1 **General requirements** N/A P.3.2 N/A Determination of spillage consequences P.3.3 Spillage safeguards N/A P.3.4 Safeguards effectiveness N/A P.4 Metallized coatings and adhesive securing parts N/A P.4.2 a) N/A Conditioning testing Tc (°C).....: Tr (°C) Ta (°C)..... P.4.2 b) (See G.13.6.2) N/A Abrasion testing P.4.2 c) (See Annex T) N/A Mechanical strength testing **CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING** N/A Q Q.1 N/A Limited power sources N/A Q.1.1 a) Inherently limited output Q.1.1 b) Impedance limited output N/A - Regulating network limited output under normal (See appended table Q.1) N/A operating and simulated single fault condition Q.1.1 c) Overcurrent protective device limited output N/A Q.1.1 d) N/A IC current limiter complying with G.9 Q.1.2 Compliance and test method N/A Q.2 Test for external circuits – paired conductor cable N/A Maximum output current (A): Current limiting method: R LIMITED SHORT CIRCUIT TEST N/A R.1 N/A **General requirements**

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UNK TES !!	IEC 62368-1	EL	AKTE.
Clause	Requirement + Test	Result - Remark	Verdict
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm)		
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
5.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:	See table 4.1.2	
	Wall thickness (mm):	Min. 1.5 mm	
	Conditioning (°C)		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
5.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:	See table 4.1.2	
	Wall thickness (mm):	1.5mm	
	Cheesecloth did not ignite		N/A
5.4	Flammability classification of materials		N/A
8.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm)		
	Conditioning (test condition), (°C):		—
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		N/A
Т.2	Steady force test, 10 N:	(See appended table T.2)	N/A
Г.З	Steady force test, 30 N:	(See appended table T3)	N/A
Г.4	Steady force test, 100 N:	(See appended table T4)	N/A
Г.5	Steady force test, 250 N:	(See appended table T5)	N/A
Г.6	Enclosure impact test	(See appended table T6)	Р
	Fall test		N/A
	Swing test		N/A
Г.7	Drop test	(See appended table T7)	N/A
Г.8	Stress relief test	(See appended table T8)	N/A
Г.9	Impact Test (glass)		N/A
Г.9.1	General requirements		N/A
Г.9.2	Impact test and compliance		N/A
	Impact energy (J)		
	Height (m)		
Г.10	Glass fragmentation test	(See sub-clause 4.4.4.9)	N/A
Г.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		
J	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A
J.1	General requirements		N/A
J.2	Compliance and test method for non-intrinsically protected CRTs		N/A
J.3	Protective Screen	(See Annex T)	N/A
/	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	N/A
/.1	Accessible parts of equipment		N/A
/.2	Accessible part criterion		N/A

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10.5		100		
Clause	Requirement + Test		Result - Remark	Verdict

4.1.2	TABLE: List of criti	F	D			
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) conformit	
Enclosure	CHI MEI	PA-765A+	V-0, 80°C	UL 94	UL	
PCB	КВ	KB-6160	94V-D,130°C	UL 94	UL	
Internal wire	Interchangeable	Interchangeable	26AWG,VW-1, 80°C	UL 758	UL	
Li-ion Battery	HUAYOU NEW ENERGY(DONGGUA N) CO., LTD	HY 502035	3.7V, 300mAh	EN 62133-2	Refer to tes report: LAB- R19090900	-

Supplementary information:

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

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day	in provide the second se	WIPP.	J.P.C.
Clause	Requirement + Test	Result - Remark	Verdict

4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batteries	s mechanical tests	N/A
(The follow	ving mechanica	al tests are conducted in the seque	ence noted.)	
4.8.4.2	TABLE: St	ress Relief test	THIS LIAN TESTION	
	Part	Material	Oven Temperature (°C)	Comments
ą	Ψ.	anna G	and a second).
4.8.4.3	TABLE: Ba	attery replacement test	IG MIRAN	
Battery pa	art no		-UNTESTIC	—
Battery Ins	stallation/with	drawal	Battery Installation/Removal Cycle	Comments
			1	
			2	-TING
			3 HUNK I	HUNK THE
			4	
			5	- G
			6	51.0
			8	
			9	
TEST	NG JAK TES	The O'	10	AK TESTERS
4.8.4.4	TABLE: Dr	op test) en () en ()	_
Impact Ar	ea	Drop Distance	Drop No.	Observations
TESTING		e mus	155m 1 15m	TESTING
D'HORE	O HUNK	Ome	2	Onum
STING		STING	3	
4.8.4.5	TABLE: Im	pact	A TESTING	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
5		ok TESTIN	of testing	
Texas	NG	ne o m	TESTING O PAR	TESTING
A HUPL	O HUM	INDAK	HOME HOME	C HUMAN
4.8.4.6	TABLE: Cr	rush test		—
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)
HUDAN.	HUP.	O when	Chine.	(C) HUAN

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Clause	Re	equirement + Test	O HUNN	Result - Remark	Verdic
4.8.4,		coin/button cell bat	teries mechani	cal tests	N/A
4.8.5 (The follow	ing mechanical tests	are conducted in the s	sequence noted.)	115 miles	175704
	tary information:	0		26	~
C. T.		617		-51	

4.8.5	.5 TABLE: Lithium coin/button cell batteries mechanical test result							
Tes	t position	Surface tested	Force (N)	Duration force applied (s)				
	TRIC	O the	TISTING OF	STAG TESTAG				
Suppleme	entary information:	HUNK	HUNC	C HUAN				

5.2	Table: 0	Classification of	electrical energy	sources				Р
5.2.2.2	- Steady Stat	e Voltage and Cu	rrent conditions					
		Location (e.g.			Para	meters		
No.	Supply Voltage	circuit designation)	Test conditions	; U (Vrms or Vp	k) (A	l pk or Arms)	Hz	ES Class
1	5V	Input to	Normal	5V			@* <u>**</u>	
NG		accessible parts	Abnormal	5V	KTE	.Taves		ES1
100	CESTING - WI	A LEADER OF HOLE	Single fault – SC/OC	5V	D.u.		ma	TESTING O
5.2.2.3	- Capacitance	Limits						
	Supply	Location (e.g.			Param	neters		50.01
No.	Voltage	circuit designation)	Test conditions	Capacitance	e, nF	Upk	: (V)	ES Class
D-HOME	- 0	<u>71-</u>	Normal	@ HUM		- HORA	6	
STAR			Abnormal					
AK TEO	HUAK TES	enc O	Single fault – SC/OC	ALAN TESTING	0'	100	HUAK TES	I OVG
5.2.2.4	- Single Pulse	s						
	Supply	Location (e.g.			Param	neters		
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk	. (V) I	pk (mA)	ES Class
0	-		Normal	<u>-</u>		<u> </u>	Ŷ	
			Abnormal]
NO TES	TNG	& TESTING	Single fault –	wresting		a Toma		W TESTING

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				IEC	62368-1					
Cla	ause	0.	Requir	rement + Test	0		Result - R	emark	0.	Verdict
5.2.2	.5 - Rep	etitive	Pulses							
	Suppl	lv	Location (e.g.				Parameters			
No.	Voltag		circuit designation)	Test conditions	Off time	(ms)	Upk (V)	lp	k (mA)	ES Clas
TEST				Normal		-	-	TI SO		26
			STILL	Abnormal		-	- O ^w		NIAK TES	
				Single fault – SC/OC		-	TESTING		0.	
	Conditio Iementa	No Abi	rmal – normal - rmation: SC=Sh	ort Circuit, OC=Sho	ort Circuit					
	-alG		- NG	and		ang		and		- and
5 A 4			1000	265		1000				1000
	I.4, 6.3.2 B.2.6	2, 1	ABLE: Tempera	ature measureme	nts					P
			line.	ature measureme	(A) 100		5VE	DC		P
		S	upply voltage (V		: .		5VI 23.7	DC 25.0	s	P — —
		S A	upply voltage (V mbient T _{min} (°C)	/)	:					P — —
9.0,	B.2.6	S A A	upply voltage (V mbient T _{min} (°C)	/)	:		23.7	25.0	6	Allow d T _{ma}
9.0, Maxi	B.2.6	S A A	upply voltage (V mbient T _{min} (°C) mbient T _{max} (°C)	/)	:		23.7 23.8	25.0		Allow d T _{ma} (°C)
9.0, Maxi PCB	B.2.6	S A A	upply voltage (V mbient T _{min} (°C) mbient T _{max} (°C)	/)	:		23.7 23.8 T (°C)	25.0 25.0		Allow d T _{ma} (°C)
9.0, Maxi PCB Batte	B.2.6	A A easure	upply voltage (V mbient T _{min} (°C) mbient T _{max} (°C)	/)	:		23.7 23.8 T (°C) 31.5	25.0 25.0 32.8		
9.0, Maxi PCB Batte	B.2.6 imum m	A A easure	upply voltage (V mbient T _{min} (°C) mbient T _{max} (°C)	/)	:		23.7 23.8 T (°C) 31.5 29.8	25.0 25.0 32.8 31.1		
9.0, Maxi PCB Batte Inter Plas	B.2.6 imum m ery nal wire tic enclo	S A A easure	upply voltage (V mbient T _{min} (°C) mbient T _{max} (°C)	/)	· · · · · · · · · · · · · · · · · · ·		23.7 23.8 T (°C) 31.5 29.8 28.6	25.0 25.0 32.8 31.1 29.9		
9.0, Maxi PCB Batte Inter Plas Supp	B.2.6 imum m ery nal wire tic enclo	S A A easure osure ary info	upply voltage (V mbient T _{min} (°C) mbient T _{max} (°C) ed temperature T	/) 	· · · · · · · · · · · · · · · · · · ·		23.7 23.8 T (°C) 31.5 29.8 28.6 27.3	25.0 25.0 32.8 31.1 29.9		

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Clause	Requirement + Test		Result - Remark	Verdict
5.4.1.10.2	TABLE: Vicat softening temperature of the	rmoplastics	-9	N/A
Penetration	(mm):	TIAKTESTIC	HAN TESTIN	
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C	;)
NK TES	-STING MUAKTES	STNG	HUANTES	STING
supplement	ary information:	3	Contract 1	

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed impression diameter	(mm):	≤ 2.0 mm	UAK TEST				
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)			
Supplementary information: /	2 TESTING	TESTING	TESTING	J TESTING			

j.	5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum C	learance	s/Creepa	ge distance				N/A
		cl) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
		me or	Sec. 1	Guig		PG (PULAR		- NG	ans
ļ	Currentererente	HUNKTER		UAK TEST.	HUNKTE		THE WORK	1917	pik The

Supplementary information:

Note 1: Only for frequency above 30 kHz

Note 2: See table 5.4.2.4 if this is based on electric strength test

Note 3: Provide Material Group

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage					
A TON	Overvoltage Category (OV):					
	Pollution Degree:					
Clearance distanced between:	Required withstand voltage	Required cl (mm)	Measure	d cl (mm)		
TEST	NY TESTIC	TESTING	zu. 🝙	TESTING	. WITESTIN	

5.4.2.4	TABLE: Clearances based on electric strength test					
Test voltag	e applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No		
STING		STAG	500	e		

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AK TESTIN	G UAK TESTIN	. 0.	IEC 62368-1	ur O	AKTESTING	WAX TESTING
Clause	0.	Requirement + Tes	t 🔍	Resu	ılt - Remark	Verdict
- An			-6-		- (h	- Ale
Supplemen	tary information	1: JAK TES				
0	0.	0	0		0	0.
5.4.4.2,	TABLE: Dist	ance through insula	ation measureme	ents	STING	N/A
5.4.4.5 c) 5.4.4.9	- WAX TESTING					UNK TESTING
Distance th insulation c		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
	6	6 M	6	and an the	1.5	10 Mar

Supplementary information:

5.4.9	TABLE: Electric strength tests	NO	W TESTING	N/A
Test voltage	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
AK TESTING				anti
	- 11 ¹	100 No.	-	912
Supplemen	tary information:	le la	G	9.

5.5.2.2	TABLE: St	ored discharg	ge on capacito	ors	WIE	N/A
Supply Vol	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
TESTING		ESTING	"TESTING	TEST	at TESTAN	. TESTING
HOM	O HUM		O HOM	O MOR	O HOL	Onut
and			CING		and	

Supplementary information:

X-capacitors installed for testing are:

□ bleeding resistor rating:

□ ICX:

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition

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 Clause
 Requirement + Test
 Result - Remark
 Verdict

ance of protective cond	uctors and termina	auons	N/A
Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
WARTESIN	-cllVG	MAKTESIN	-myG
ġ.	HUNK TE	(Ø) .	HUAK TCO
STANG		OWNE	
	Test current	Test current Duration	Test current Duration Voltage drop

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive par	t 🔘 🖤		N/A
Supply vo	Itage:	- Ora	6	—
Location		Test conditions specified in 6. IEC 60990 or Fault Condition in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2	No	ouch curren (mA)
		1		STING
		2*	6	
		3		
		4	Olm	-STING (
		10 ⁰⁰⁰ 5 10 ⁰⁰⁰		HUAK
		6	~	
		8		
Suppleme	ntary Information:	-570570	and the	-STING

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

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Arr.	in Mar	in the second se	Upin
Clause	Requirement + Test	Result - Remark	Verdict

6.2.2	Table: Electrical power sources (PS) measurements for classification					
Source		Description	Measurement	Max Power after 3 s	Max Power after 5 s* ⁾	PS Classification
KTESI		TING		-mNG	WAX TES !!	TING
	100			HUNKTE	0	HUAK TES
	÷.			0	SIMG	
Suppleme	entary	Information:	B HURK I		HUAK TOO	

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)						
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No		
AK TESTA					-mis		
		-	- MM-				

Supplementary information:

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

IEC62368_1B

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Clause	Requirement + Test	Result - Remark	Verdict

6.2.3.2	Table: Det	ermination of Potential Ignition Sources (Resistive PIS)							
Circuit Lo	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No			
(G)	0	240	0		a 0 ^m				
		IN AN TES		MAK TES					

Supplementary Information:

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

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

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

8.5.5	TABLE: High Pressure Lamp			N/A
Descriptio	n	Values	Energy Source C	lassification
Lamp type	e	HUAKTES	_	
Manufact	urer	0	_	
Cat no	:		_	
Pressure	(cold) (MPa)	-STAL	MS_	-STING
Pressure	(operating) (MPa)	State of the second sec	MS_	HUDKIL
Operating	g time (minutes)		_	
Explosion	n method	and a start		
Max parti	cle length escaping enclosure (mm) .:	S HUAK TEST	MS_	5
Max parti	cle length beyond 1 m (mm)		MS_	
Overall re	esult:	HUAK TE		
Suppleme	entary information:	HUAKTESTE	A HUNK TESTING	JAK TESTIN

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Clause	Requirement + Test	Result - Remark	Verdict

B.2.5	B.2.5 TABLE: Input test		- JAK TESTIN	UDX TEST	Wei.	TIAK TESTIN	P
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5	0.45	0.5	2.25			COTING .	Max normal load
Supplemen	tany informatio	n:	A. C. C.	Olin		MALIN	- MAG

Supplementary information:

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

B.3 1	ABLE: Abnorn	nal operating	condition to	ests						Р
Ambient temp	erature (°C)		and the state		:	25	- HUAY	TEST	- 472	
Power source	for EUT: Manuf	facturer, model	/type, outpu	ut rating	.:	See p	age 2		-	
Component N	Io. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		use nt, (A)	T-couple	Temp. (°C)	Observ	ation
Speaker	Max. output power	5VDC	2hours 26mins		-		Plastic enclosur e	26.4	The stal tempera rise was measure damage hazard.	ature S ed, no

Supplementary information:

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

	В.4 ТА	BLE: Fault co	ondition tests								Р
	Ambient tempe	rature (°C)				TESTRA	25	TE	There		
	Power source for	or EUT: Manuf	facturer, mode	l/type, outpu	ut rating	.:	See p	age 2		0	
	Component No	. Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer		T-couple	Temp (°C)	Ob	servation
3	U3	S-C	5VDC	10 mins		_	-			can't	appliance work, no ard, no en
	C1	S-C	5VDC	10 mins		-	-			can't	appliance work, no ard, no en

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			Page 4	48 of 64		Report	: No.: H	K1908	302147-SF
UNK TESTING	WAX TESTING	9	IEC 6	2368-1	ESTIM O	10	K TESTING		AK TESTING
Clause	F	Requirement +	Test	0		Result - Rem	nark	0.	Verdict
Q1	S-C	5VDC	10 mins					can't	appliance work, no ard, no en
Battery	S-C	5VDC	10 mins					works	appliance s normally, arzard, no en
Battery	Over- charge	5VDC	7 hours					worki temp PCB: Batte 32.1°	amage, no
Battery	Over- discharge		7hours					worki temp PCB: Batte 31.8°	amage, no

Supplementary information:

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			ISTN: I	Page 49 of 6	64	R	eport No.:	HK19083	02147-SR	
of TESTING	-UNK TESTIN		W.TE	IEC 62368-	1 restree	9	WTEST	96 1	KTESTIN (
Clause	Ø.,	Requiren	nent + Test	Q.		Result -	Remark	٥.	Verdict	
Annex M T	ABLE: Batte	eries		4					Р	
The tests of A	nnex M are a	applicable	only when ap	opropriate b	attery dat	a is not ava	ilable		UAK TESTAN	
Is it possible to	o install the l	battery in a	reverse pola	arity position	וייייי		N	0	Р	
	Non-re	chargeable	e batteries		Rechargeable batteries					
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	d charging	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. current during normal condition		- O HUM		56mA	60mA	54mA	60mA	G NUP	1-5784G (
Max. current during fault condition		 6	-	242mA	300mA	231mA	300mA			
Test results:	9327		9007	1031		4633		46534	Verdict	
- Chemical lea	ks					No Chemi	cal leaks		Р	

		,
	No Emission of flame or expulsion of molten metal	Р
- Electric strength tests of equipment after completion of tests	No broken	P

Annex M.4	Table: A batteries		eguards for ea	quipment con	itaining seconda	ry lithium	Pinc		
Battery/Cell No.		Test	Test conditions		Measurements				
					I (A)	Temp (C)			
	1 HUAK IL	Normal		3.7	0.056	31.1	OK		
NG P		Single fau	Single fault –SC		0.057	31.3	OK		
	1	Abnormal	L'UN	3.7	0.242	32.1	OK		
Supplement	ary Inform	ation:	NAK TER	STR. HUAK T	5. Y	A LAN TESTIN	- HUAK TES IN		
Battery identificat		Charging at T _{lowest} (°C)	Obser	vation	Charging at T _{highest} (°C)	Obs	servation		
KTESTING		K TESTING	KTESTIN	0	TESTING	W TESTING	KTESTING		
HOM	(D) 110		O HORE	O Hor	6	Decent Contraction	O Home		

Supplementary Information:

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Clause	Requirement + Test	Result - Remark	Verdict

Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)					
Output Circuit	Components	U _{oc} (V)	I _{sc} (A)		S (VA)	
			Meas.	Limit	Meas.	Limit
	- WAXTES.		WUAN TES	0	41000	TEST
G	0	G		Ben		

SC=Short circuit, OC=Open circuit

				.c.
Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
				STANG
		Her.	-	Carter.
			(mm) (N)	(mm) (N) (sec)

Т.6, Т.9	TAB	LE: Impact tests				N/A
Part/Location Material		Thickness Vertical (mm) distance (mm)		Observation		
200		-mu5			-15-	-100
		HUAN TES	HUAKTES	HUAK TES		
	6	9				()
Supplement		l	Capito		and	

Supplementary information:

Г.7 Т	ABLE: Drop tests				N/A
Part/Location	n Material	Thickness (mm)	Drop Height (mm)	Observation	
- WAX TED	HUDKILL	- WIRK TES	HUAK	- WAX TES	JAK IL
I A A A A A A A A A A A A A A A A A A A			1990 - Contraction of the second seco	<u>6</u>	
Supplementary	/ information:	TING	-1046	TIME	-104

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		IESTIC-	Page 51 of 64	Report	No.: HK1908	302147-SF
-K TESTING	ALAK TESTING	WTE	IEC 62368-1	0	TESTING	OK TESTING
Clause	Require	ment + Test	0	Result - Rema	ark	Verdict
T.8	TABLE: Stress relief te	est	6		-6	Р
Part/Locatio	n Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ration
Enclosure See table 4.1.2		1.5	70	7h	No deformation	
Supplementar	y information:	1 HO	UNCTESTIC.	O Hor	I PAKT	2111.

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Clause	0	Requirement + Test	Result - Remark	Verdict

-Appendix 1: For requirements of European group differences.

ATTACH	MENT TO TEST	REPORT IEC 62368	3-1	an Human
EUROPEAN GROU	P DIFFERENCES	S AND NATIONAL DI	FFERENCES	
(Audio/video, information and co	mmunication tech	nology equipment Pa	rt 1: Safety require	ements)
Differences according to	EN 62368-1:	2014+A11:2017	HUBIC L	-STING
Attachment Form No	EU_GD_IEC	62368_1B_II	100	HUAX
Attachment Originator:	Nemko AS			
Master Attachment	Date 2017-0	9-22		
Copyright © 2017 IEC System of Confe	ormity Assessm	ent Schemes for El	ectrotechnical E	quipment ar
Components (IECEE)				

<u> </u>	CENELEC C			NS (EN)		<i><i><i>v</i></i></i>		
WKTESTING	Clauses, sub	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in EC 62368-1:2014 are prefixed "Z".						
CONTENTS	Add the follo	wing annexes:	Contra Co		63		637	N/A
ecresities	Annex ZA (n Annex ZB (n Annex ZC (ir Annex ZD (ir	ormative) Iformative)	with t Speci A-dev	ative references heir correspondir ial national condi viations nd CENELEC co	ng European p tions	oublications		(nA
ANA TESTING	Delete all the to the following		es in the ref	erence documen	t (IEC 62368-	1:2014) accordi	ng	N/A
0	0.2.1	Note	1	Note 3	4.1.15	Note	9	
TISTING	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	-	TESTING
D HULL	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	0	Upas
AK TESTING	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		340
N ²	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	AKTE	
TESTING	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		TESTING O
O HUPLIT	For special r	ational condition	ons, see Ar	nnex ZB.		C HUMAN	9 m	N/A
1	NOTE Z1 The u	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.						N/A

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A TESTIN	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.Z1	Add the following new subclause after 4.9: 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	e numrestre	N/A
	 installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; 	a and a a	e mua
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	O numerosta	utrisino C
	c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	ar anna teanna	VELAN TESTING
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	C HUAR TESTING	0m0 0m0
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	O HUNK TESTING	N/A
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	n restine	N/A

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	IEC 02300-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:		NURKTESTING
	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 presets 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.		e mis
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.		A TESTING
	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 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.		NUNCTESTING
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		(1996)
10.6.1	Add the following paragraph to the end of the subclause:	ACTESTING	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		UN TESTING
10.Z1	Add the following new subclause after 10.6.5.	Ô., Ō.	N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).		JUNK TESTING
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time- Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted		ennic
<u> </u>	devices, attention is drawn to EN 50360 and EN 50566	S West TEST	
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		N/A
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A TESTIN		IEC 62368-1				
Clause	Rec	quirement + Test		Result - Remark	0.	Verdict
Bibliography	Add the following	standards:	-6			N/A
	Add the following	notes for the standards indicate	ed:			W TESTINO
	IEC 60130-9	NOTE Harmonized as EN 60	130-9.			Ups.
	IEC 60269-2	NOTE Harmonized as HD 60	269-2.			
	IEC 60309-1	NOTE Harmonized as EN 60	309-1.			100
	IEC 60364	NOTE some parts harmonize	d in HD 384	HD 60364 series.		1 Mars
	IEC 60601-2-4	NOTE Harmonized as EN 606	601-2-4.			
	IEC 60664-5	NOTE Harmonized as EN 606	64-5.			
	IEC 61032:1997	NOTE Harmonized as EN 610)32:1998 (nc	ot modified).		
	IEC 61508-1	NOTE Harmonized as EN 615	508-1.			A TESTION O
	IEC 61558-2-1	NOTE Harmonized as EN 615	558-2-1.			
	IEC 61558-2-4	NOTE Harmonized as EN 615	558-2-4.			
	IEC 61558-2-6	NOTE Harmonized as EN 615	558-2-6.			
	IEC 61643-1	NOTE Harmonized as EN 616	643-1.			-msG
	IEC 61643-21	NOTE Harmonized as EN 616	643-21.			UAKTES
	IEC 61643-311	NOTE Harmonized as EN 616	643-311.			
	IEC 61643-321	NOTE Harmonized as EN 616	643-321.			
	IEC 61643-331	NOTE Harmonized as EN 616	643-331.			All a
ZB	ANNEX ZB, SPEC	CIAL NATIONAL CONDITION	S (EN)		h 440-	N/A
4.1.15	Denmark, Finland	I, Norway and Sweden		STAG		N/A
		ubclause the following is added	d:			
	S	equipment type A intended for	100 March 100 Ma			TESTING C
		r equipment or a network shall,				
		nnection to reliable earthing or i are connected between the ne				
		essible parts, have a marking s				
		shall be connected to an earth				- and
	mains socket-outle	et.	AXTEST			UNKTEST
	The marking text in follows:	the applicable countries shall	be as			
		aratets stikprop skal tilsluttes er	n			~
		d som giver forbindelse til	140			rais
	stikproppens jord."					
	varustettuun pistor	on liitettävä suojakoskettimilla				
		asiaan atet må tilkoples jordet stikkont	akt"			
	66	raten skall anslutas till jordat ut	C. L. C.			A TESTING
4.7.3	United Kingdom			Contraction of the second seco	O.	N/A
	•	subclause the following is added	d:			1.1/7
		performed using a socket-outlet				
		1363, and the plug part shall b				resting
	assessed to the re	levant clauses of BS 1363. Also				Upy 1
	Annex G.4.2 of this	sannex				

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Clause	0.	Requirement + Test	0.	Result - Remark	Verdict
5.2.2.2	A warning is require	2nd paragraph add the follo g (marking safeguard) for h d if the touch current exce c. or 10 mA d.c.	igh touch current	O num trestine	N/A
5.4.11.1 and Annex G	To the en	and Sweden d of the subclause the follow ration of the telecommunica		O MAX ICH	N/A
	earth the If this insupart of a c • two laye	following is applicable: ulation is solid, including ins component, it shall at least o ers of thin sheet material, ea electric strength test below,	ulation forming consist of either ich of which shall		O WATSING C
	• one laye	er having a distance through mm, which shall pass the el	n insulation of at		UN TESTING
	compone through in consisting the casing do not ex strength t	ulation forms part of a semic nt (e.g. an optocoupler), the isulation requirement for the g of an insulating compound g, so that clearances and cr kist, if the component passe est in accordance with the o d in addition	ere is no distance e insulation I completely filling eepage distances s the electric		1996 1997
	an electric	the tests and inspection crit c strength test of 1,5 kV mu rength test of 5.4.9 shall be nd	Itiplied by 1,6 (the		O Martson C
	manufact It is permi	ct to routine testing for elect uring, using a test voltage o itted to bridge this insulation	of 1,5kV.		a way resting
	A capacit	g with EN 60384-14:2005, s or classified Y3 according to may bridge this insulation u s:	DEN 60384-		- 10 ⁻⁰
	• the insu capacitor which in a	lation requirements are sati classified Y3 as defined by addition to the Y3 testing, is est of 2,5 kV defined in 5.4.1	EN 60384-14, tested with an		HUNKTE
	the addi speciment the impulse	tional testing shall be perfor as as described in EN 60384 se test of 2,5 kV is to be per e test in EN 60384-14, in th	rmed on all the test 4-14; rformed before the		O HORINGTING

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and the			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line	entre restance	N/A
5.5.0	voltage (230 V).	OK RETING	
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added:		N/A
24	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	Museresting	STAG
5.6.1	Denmark Add to the end of the subclause		N/A
	Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		UNI TESTING
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added:	uscresting Other	N/A
	- the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.		A TESTING
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated	0	N/A
	current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.		WAR TESTING
5.7.5	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	O wax resting	N/A

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IEC 62368-1 Clause **Result - Remark** Requirement + Test Verdict 5.7.6.1 **Norway and Sweden** N/A To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing - and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr - og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.". 5.7.6.2 Denmark N/A To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.

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UNK TEST	IEC 62368-1	IN TEST	LAK TEN
Clause	Requirement + Test	Result - Remark	Verdict
B.3.1 and B.4	Ireland and United Kingdom The following is applicable:	TESTING	N/A
	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment	C MUNITESTING	FUNC
a, a,	does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug- in equipment , until the requirements of Annexes B.3.1 and B.4 are met	O maxing of the second	
G.4.2	Denmark	HUNK TEST	N/A
	To the end of the subclause the following is added:	Q	
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	-10/5	-106
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	A HUNK THE	NUNUTES .
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	and the time	100
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	O " O HAATTSTING O "	Jartesting
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	UNA TISTING	UNK TESTING
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	O M O	
	<i>Justification:</i> Heavy Current Regulations, Section 6c	O nutr	STARS
G.4.2	United Kingdom	-STING	N/A
	To the end of the subclause the following is added:	THE PULLER IL	
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated	O water resides	JA TESTIN
MAKTESTING	Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	WAKTESTING	UNK TESTING

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A TESTIN	IEC 6	2368-1		
Clause	Requirement + Test	0	Result - Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following is added Equipment which is fitted with a flexible cat and is designed to be connected to a mains	ole or cord	C RULE TESTING	N/A
	conforming to BS 1363 by means of that fle or cord shall be fitted with a 'standard plug' accordance with the Plugs and Sockets etc Regulations 1994, Statutory Instrument 199 unless exempted by those regulations.	exible cable in : (Safety)	O was restrict	KTIGITING
	NOTE "Standard plug" is defined in SI 1768:1994 and means an approved plug conforming to BS 1363 or an conversion plug.		num restur	TESTING O
G.7.1	Ireland To the first paragraph the following is adde	d.	O HUAN	N/A
	Apparatus which is fitted with a flexible cab shall be provided with a plug in accordance Statutory Instrument 525: 1997, "13 A Plug Conversion Adapters for Domestic Use Re 1997. S.I. 525 provides for the recognition of of another Member State which is equivale relevant Irish Standard	le or cord with s and gulations: of a standard	Multi Testing	a lune restric
G.7.2	Ireland and United Kingdom	(c)	-	N/A
	To the first paragraph the following is added A power supply cord with a conductor of 1,3 allowed for equipment which is rated over 1 to and including 13 A.	25 mm ² is	O HUNGTESTING	K TESTING
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EI	V)	O HUM	N/A
10.5.2	Germany The following requirement applies:			N/A
	For the operation of any cathode ray tube in the display of visual images operating at an acceleration voltage exceeding 40 kV, auth required, or application of type approval (Bauartzulassung) and marking.	THE HELDER	WINTESING (Divertisi
	Justification: German ministerial decree against ionizing (Röntgenverordnung), in force since 2002-0 implementing the European Directive 96/29/EURATOM.		A HUALTESTING	5775 ⁴ 0.
C HUNCTESTER	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	100,	O HUAK TESTING	MURTESIN

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-Appendix 2: Photo document.

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Photo 1: Overall view



Photo 2: Side view

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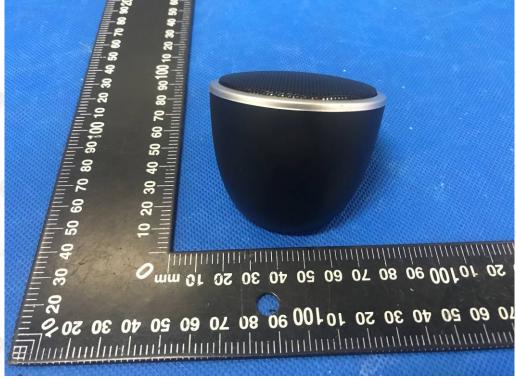


Photo 4: Side view

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Photo 5: Internal view

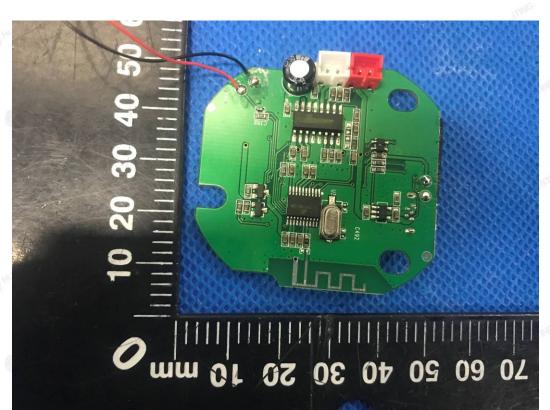


Photo 6: PCB view

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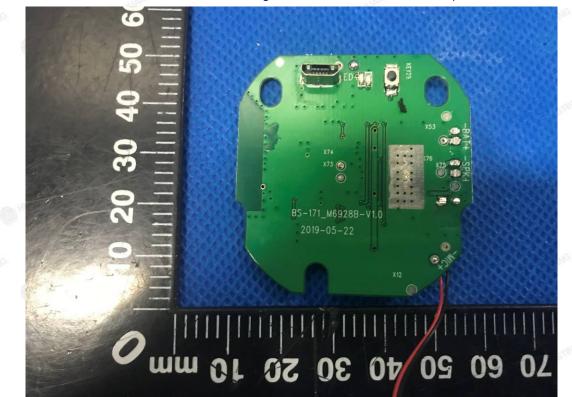


Photo 7: PCB view

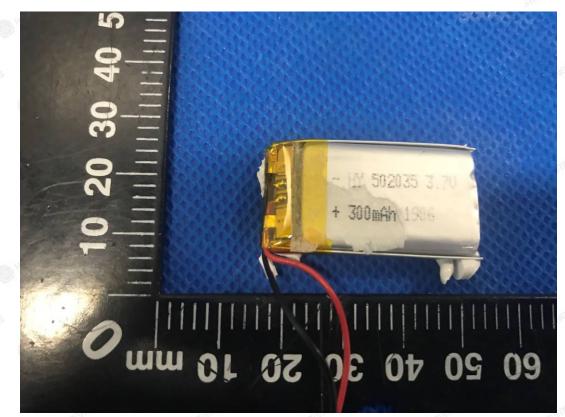


Photo 8: Battery view

--End of report-----

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