Test Report issued under the responsibility of:



#### TEST REPORT IEC 62368-1

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

Report Number.....: WST18N100255-1SR

Applicant's name ....::

Address .....:

Test specification:

Standard .....: EN 62368-1:2014

Test procedure ..... : CE-LVD

Non-standard test method .....: N/A

Test Report Form No. .....: IEC62368\_1B

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Page 2 of 56

Test Item description:	True Wireless Stereo Bluetooth Speaker			
Trade Mark:	N/A			
Manufacturer	hudson electronics(HK) limited			
Model/Type reference	BS-124T			
Ratings	Input:5 Vdc, 3W :Batte	ery 300mAh		
Testing procedure and testing location:				
☐ Testing Laboratory:	Shenzhen WST Testi	ng Co., Ltd.		
Testing location/ address	87 Guangshen Road, Street, Bao'an, Shenz		e, Xin'an	
Associated Testing Laboratory:				
Testing location/ address				
Tested by (name + signature):	Mike Chen	Mike (	TOATIO	
Approved by (name + signature):	Michael Ling	Timbre	Wstlab	
			(2)	
☐ Testing procedure: TMP/CTF Stage 1		2.95 2000 DESIED (PECOLIFICO) BUIDORES (INAZARI INTERNALINI ESPERINI ESPERINI ESPERINI	* 9	
Testing location/ address:				
Tested by (name + signature):				
Approved by (name + signature):			27	
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☐ Testing procedure: WMT/CTF Stage 2				
Testing location/ address	100			
Tested by (name + signature)				
Witnessed by (name + signature):		*	3.7%	
Approved by (name + signature):				
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Testing procedure: SMT/CTF Stage 3 or 4				
Testing location/ address				
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Approved by (name + signature):				
Supervised by (name + signature):				

E ORIGINAL DOCUMENT WAS AVAILABLE ALSO. THE ORIGINAL CAN ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER.

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

- Appendix 1: European group differences and national differences(3 pages)
- Appendix 2: Photo Document(5 pages)

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## Tests performed (name of test and test clause):

Full tests

#### **Testing location:**

Shenzhen WST Testing Co., Ltd.

87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong

#### **Summary of compliance with National Differences:**

#### List of countries addressed

European group differences and national differences

☐ The product fulfils the requirements of ☐ EN 62368-1:2014

#### Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

True Wireless Stereo Bluetooth Speaker

Model: BS-124T

Input:5 V===, 3W :Battery 300mAh



hudson electronics(HK) limited RM 602, Bldg 11, Phase II, YunGu Innovation Industrial Park, Pingshan First Rd, Xi li Town, Nanshan Dist, SZ, China

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Classification of use by	TEST ITEM PARTICULARS:	
Skilled person	Classification of use by	
Children likely to be present	viellan Mari	
Supply Connection	197	
External Circuit - not Mains connected	Supply Connection :	170.
Supply % Tolerance	Supply Composition	
+20%/-15%     +	No.	
+20%/-15%     +	Supply % Tolerance	
Supply Connection – Type	Malla Mar	<u>+20%/-15%</u>
Supply Connection – Type	013	
non-detachable supply cord   appliance coupler   direct plug-in   mating connector   pluggable equipment type B -   non-detachable supply cord   appliance coupler   direct plug-in   mating connector   pluggable equipment type B -   non-detachable supply cord   appliance coupler   permanent connection   mating connector   other: Battery supply   other: Battery su	lles dans	None
appliance coupler   direct plug-in   mating connector   pluggable equipment type B -   non-detachable supply cord   appliance coupler   permanent connection   mating connector ⊠ other: Battery supply   direct pluging or equipment installation   direct pluging or equipment installation   direct pluging in   rack-mounting   wall-mounted   direct pluging in   rack-mounting   wall-mounted   direct pluging in   direct plugin	Supply Connection – Type	pluggable equipment type A
direct plug-in   mating connector   pluggable equipment type B -   non-detachable supply cord   appliance coupler   permanent connection   mating connector ⊠ other: Battery supply   10 A;   Installation   location:   building; ⊠ equipment   10 A;   Installation   building; ⊠ equipment   10 A;   Installation   location:   building; ⊠ equipment   location:   l	500.00	
mating connector   pluggable equipment type B -   non-detachable supply cord   appliance coupler   permanent connection   mating connector ⊠ other: Battery supply	day	ACCES TO ACCES
pluggable equipment type B -   non-detachable supply cord   appliance coupler   permanent connection   mating connector ⋈ other: Battery supply   10 A;   Installation location:   building; ⋈ equipment     Equipment mobility   movable   hand-held   transportable     stationary   for building-in   direct plu     in   rack-mounting   wall-mounted     Over voltage category (OVC)   OVC I   OVC II   OVC III     OVC IV   other:     Class of equipment   PD 1   PD 2   PD 3     Manufacturer's specified maxium operating ambient:     IP protection class   IPX0   IP     Power Systems   IPX0   IP     Power Systems   IPX0   IP     Altitude during operation (m)   2000 m or less   m     Altitude of test laboratory (m)   2000 m or less   m     Mass of equipment (kg)   152 g     POSSIBLE TEST CASE VERDICTS:     test case does not apply to the test object   N/A     test object does meet the requirement   P (Pass)	Men Wenn W	
non-detachable supply cord   appliance coupler   permanent connection   mating connector   other: Battery supply    Considered current rating of protective device as part of building or equipment installation   10 A; Installation location:   building;   equipment    Equipment mobility     movable   hand-held   transportable   stationary   for building-in   direct plu   in   rack-mounting   wall-mounted    Over voltage category (OVC)   OVC II   OVC II   OVC III   OVC IV   other:    Class of equipment   Class II   Class II   Class III    Access location   PD 1   PD 2   PD 3    Manufacturer's specified maxium operating ambient:   25 °C    IP protection class   IT   IT - V   V   V   V   V   V   V   V   V   V		
appliance coupler   permanent connection   mating connector ⊠ other: Battery supply   Department of building or equipment installation   10 A; Installation location: □ building; ☑ equipment   10 A; Installation location: □ build	day.	
□ permanent connection       □ mating connector ☑ other: Battery supply         Considered current rating of protective device as part of building or equipment installation       10 A; Installation location: □ building; ☑ equipment         Equipment mobility       □ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plu in □ rack-mounting □ wall-mounted         Over voltage category (OVC)       □ OVC I □ OVC II □ OVC III □ OVC III         □ OVC IV □ other: □       □ Class I □ Class II □ Class III         Access location       □ restricted access location ☑ N/A         Pollution degree (PD)       □ PD 1 □ PD 2 □ PD 3         Manufacturer's specified maxium operating ambient: 25 °C         IP protection class       □ IPNO □ IP□         Power Systems       □ TN □ TT □ IT V LL         Altitude during operation (m)       □ 2000 m or less □ m         Altitude of test laboratory (m)       □ 2000 m or less □ m         Mass of equipment (kg)       □ 152 g         POSSIBLE TEST CASE VERDICTS:         - test case does not apply to the test object.       N/A         - test object does meet the requirement       P (Pass)	INSTITUTE ANSTR	1.5 http://doi.org/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10
Considered current rating of protective device as part of building or equipment installation       10 A; Installation location:	Plats.	1.013
of building or equipment installation	day wab	
of building or equipment installation	Considered current rating of protective device as part	10 A:
stationary   for building-in   direct plu   in   rack-mounting   wall-mounted		130
stationary   for building-in   direct plu   in   rack-mounting   wall-mounted	Equipment mobility	
Class of equipment	Malla. Mar.	
Class of equipment	Over voltage category (OVC):	
Access location	ab islab wis	OVC IV other:
Access location	Class of equipment	☐ Class I ☐ Class II ☐ Class III
Manufacturer's specified maxium operating ambient: 25 °C  IP protection class		☐ restricted access location ☐ N/A
IP protection class □ IPX0 □ IP   Power Systems □ TN □ TT □ IT VL   Altitude during operation (m) □ 2000 m or less □ m   Altitude of test laboratory (m) □ 2000 m or less □ m   Mass of equipment (kg) □ 152 g    POSSIBLE TEST CASE VERDICTS:  - test case does not apply to the test object	Pollution degree (PD)	□ PD 1 □ PD 3
Power Systems	Manufacturer's specified maxium operating ambient:	25 °C
Altitude during operation (m)	IP protection class	
Altitude of test laboratory (m)	Power Systems	☑ TN ☐ TT ☐ IT V <sub>L-L</sub>
Mass of equipment (kg)	Altitude during operation (m)	⊠ 2000 m or less □ m
POSSIBLE TEST CASE VERDICTS:  - test case does not apply to the test object	Altitude of test laboratory (m)	☐ 2000 m or less ☐ m
- test case does not apply to the test object: N/A - test object does meet the requirement	Mass of equipment (kg)	⊠ <u>152</u> g
- test case does not apply to the test object		
- test object does meet the requirement P (Pass)	POSSIBLE TEST CASE VERDICTS:	N.C.
- 1.8V - 2.3V - AN-2	- test case does not apply to the test object:	N/A
- test object does not meet the requirement F (Fail)	- test object does meet the requirement:	P (Pass)
	- test object does not meet the requirement:	F (Fail)

TESTING:	Con Marie
Date of receipt of test item	: 2018-10-22
Date (s) of performance of tests	: 2018-10-22 to 2018-10-31
GENERAL REMARKS:	della de
"(See Enclosure #)" refers to additional informati "(See appended table)" refers to a table appended Throughout this report a ⊠ comma / ☐ point is t	to the report.
Manufacturer's Declaration per sub-clause 4.2.5 o	f IECEE 02:
The application for obtaining a Test Certificate ncludes 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
When differences exist; they shall be identified in	the General product information section.
Name and address of factory (ies)	: hudson electronics(HK) limited RM 602, Bldg 11, Phase II, YunGu Innovation Industrial Park, Pingshan First Rd, Xi li Town Nanshan Dist, SZ, China
and and and	MS 318
GENERAL PRODUCT INFORMATION:  Product Description	000
The products are Class III True Wireless Stereo material	Bluetooth Speaker. External enclosure is plast
Model Differences	utive model for full tests
the model BS-124T was selected as the representa	ilive model for full lests.
Additional application considerations – (Conside	197
the model BS-124T was selected as the represental Additional application considerations – (Conside N/A	197
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Additional application considerations – (Conside	1,877
Additional application considerations – (Conside N/A	rations used to test a component or sub-assem
Additional application considerations – (Considerations – (Considerations – (Considerations))  ENERGY SOURCE IDENTIFICATION AND CLASSIF (Note 1: Identify the following six (6) energy source for (Note 2: The identified classification e.g., ES2, TS1, so the body or its ability to ignite a combustible materal consideration and consideration in the solution of the sol	FICATION TABLE:  orms based on the origin of the energy.) should be with respect to its ability to cause pain or i
Additional application considerations – (Considerations – (Considerations – (Considerations – (Consideration))  ENERGY SOURCE IDENTIFICATION AND CLASSIF (Note 1: Identify the following six (6) energy source for (Note 2: The identified classification e.g., ES2, TS1, so the body or its ability to ignite a combustible mater worse case classification e.g. PS3, ES3.	FICATION TABLE:  orms based on the origin of the energy.) should be with respect to its ability to cause pain or i
Additional application considerations – (Conside	FICATION TABLE:  Drms based on the origin of the energy.) Should be with respect to its ability to cause pain or it rial. Any energy source can be declared Class 3 as a second control or its ability to cause pain or it rial.
Additional application considerations – (Considerations – (Considerations – (Consideration) – (Conside	FICATION TABLE:  orms based on the origin of the energy.) should be with respect to its ability to cause pain or irial. Any energy source can be declared Class 3 as a recuit designation and corresponding energy source



ENERGY COURCE IDENTIFICATION AND CLASCIFICA	TION TARK F.
ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION	
5V <del></del>	ES1
der.	THEN WELL
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and correse Example: Battery pack (maximum 85 watts):	sponding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
105.	PS1
dos	Maria
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces of part of the component evaluation.) Example: Liquid in filled component	Glycol
Source of hazardous substances	Corresponding chemical
	2
Map reflar	S. Mar.
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
Source of kinetic/mechanical energy	Corresponding classification (MS)
No moving parts	130
1190	Was or
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding elocation, operating temperature and contact time in Table 5 Example: Hand-held scanner – thermoplastic enclosure	
Source of thermal energy	Corresponding classification (TS)
N/A	Mar Mar
In Main Ma	
Radiation (Clause 10) (Note: List the types of radiation present in the product and Example: DVD – Class 1 Laser Product	d the corresponding energy source classification.) RS1
Type of radiation	Corresponding classification (RS)
NO SUCH RADIATION	May May
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	ENERGY SOURCE DIAGRAM					
Indicate which energ	gy sources are inclu	ded in the	energy sour	ce diagram	. Insert diagram below	
1190	Mella		11/2		Sha.	
Mar	□ ES	□ PS	□ MS	□ TS	□ RS	

OVERVIEW OF EMPLOYED SAFEO	GUARDS				
Clause	Possible Hazard				
5.1	Electrically-caused injury	used injury			
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	Primary circuit	20		eta <del>l</del> o	
On.	delle	MELLETA	- 57	5"	
6.1	Electrically-caused fire				
Material part	Energy Source		Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
N/A					
-					
7.1	Injury caused by hazardous	substances			
Body Part	Energy Source		Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	in alla		04.0		
200		Ob.		130	
8.1	Mechanically-caused injury				
Body Part	Energy Source		Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
N/A	W.S.	1960			
	- An		den	2	
9.1	Thermal Burn				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
unio della	MSI		Sta.		
No				10	
10.1	Radiation				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	-113D	Malla	100	7	
elafle	VII.2	34.55			

#### Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault



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day	IEC 62368-1	Mar	da
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS			
4.1.1	Acceptance of materials, components and subassemblies	rettap Metta	Р	
4.1.2	Use of components	2	Р	
4.1.3	Equipment design and construction	UAD CALL	Р	
4.1.15	Markings and instructions	(See Annex F)	Р	
4.4.4	Safeguard robustness		Р	
4.4.4.2	Steady force tests	(See Annex T.4, T.5)	Р	
4.4.4.3	Drop tests	(See Annex T.7)	Р	
4.4.4.4	Impact tests	(See Annex T.6)	Р	
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	(See Annex T.3)	N/A	
4.4.4.6	Glass Impact tests	(See Annex T.9, Annex U)	N/A	
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	N/A	
4.4.4.8	Air comprising a safeguard	(See Annex T)	N/A	
4.4.4.9	Accessibility and safeguard effectiveness	- 20 41	N/A	
4.5	Explosion	Men.	N/A	
4.6	Fixing of conductors	0.5	N/A	
4.6.1	Fix conductors not to defeat a safeguard	dere	N/A	
4.6.2	10 N force test applied to	War.	N/A	
4.7	Equipment for direct insertion into mains socket - outlets	den	N/A	
4.7.2	Mains plug part complies with the relevant standard	Mag	N/A	
4.7.3	Torque (Nm)	0/8/2	N/A	
4.8	Products containing coin/button cell batteries	Wes	N/A	
4.8.2	Instructional safeguard		N/A	
4.8.3	Battery Compartment Construction	11313	N/A	
-115	Means to reduce the possibility of children removing the battery:	150	_	
4.8.4	Battery Compartment Mechanical Tests	(See Table 4.8.4)	N/A	
4.8.5	Battery Accessibility	May Ma	N/A	
4.9	Likelihood of fire or shock due to entry of conductive object:	(See Annex P)	N/A	



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

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current:	See appended table 5.2)	Р
5.2.2.3	Capacitance limits:	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits:	(See appended table 5.2)	N/A
5.2.2.5	Limits for repetitive pulses:	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals:	(See Annex H)	N/A
5.2.2.7	Audio signals:	(See Clause E.1)	N/A
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	STAC	Р
5.3.2.1	Accessibility to electrical energy sources and safeguards	USD WELLSD	Р
5.3.2.2	Contact requirements		N/A
da	a) Test with test probe from Annex V:	14. 05	N/A
	b) Electric strength test potential (V):	112/10 May	N/A
-0	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire	dela	N/A
5.4	Insulation materials and requirements	War	N/A
5.4.1.2	Properties of insulating material	- 10	N/A
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degree	10 101/30	_
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	969	N/A
5.4.1.5.3	Thermal cycling	11312 1131	N/A
5.4.1.6	Insulation in transformers with varying dimensions	150	N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage	istlan ans	Р
5.4.1.9	Insulating surfaces	919	Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	dellar	Р
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)	Р
5.4.2	Clearances	Mallo	N/A
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	N/A	
A.a.	a) a.c. mains transient voltage:	18/2 Chr.	_	
	b) d.c. mains transient voltage:	18/10		
MS	c) external circuit transient voltage:			
	d) transient voltage determined by measurement	Wallan M	_	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	P	
5.4.2.5	Multiplication factors for clearances and test voltages:	MSD	N/A	
5.4.3	Creepage distances:	(See appended table 5.4.3)	Р	
5.4.3.1	General	Alve	P	
5.4.3.3	Material Group:		_	
5.4.4	Solid insulation	(ab	Р	
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	Р	
5.4.4.3	Insulation compound forming solid insulation		P	
5.4.4.4	Solid insulation in semiconductor devices	130	N/A	
5.4.4.5	Cemented joints	Class.	Р	
5.4.4.6	Thin sheet material	.50	Р	
5.4.4.6.1	General requirements	15H2 A	Р	
5.4.4.6.2	Separable thin sheet material		N/A	
	Number of layers (pcs)	den	N/A	
5.4.4.6.3	Non-separable thin sheet material	War	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	Men	N/A	
5.4.4.7	Solid insulation in wound components		N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz:	(See appended Table 5.4.4.9)	N/A	
5.4.5	Antenna terminal insulation	120	N/A	
5.4.5.1	General		N/A	
5.4.5.2	Voltage surge test	13b	N/A	
	Insulation resistance (MΩ):	914	_	
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	Ne.	N/A	
5.4.8	Humidity conditioning	18/18/	Р	
der	Relative humidity (%):	.0097	_	
34	Temperature (°C):	- W		



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Clause	Requirement + Test	Result - Remark	Verdict
20	Duration (h):	VIII - 110.	_
5.4.9	Electric strength test	(See appended table 5.4.9)	Р
5.4.9.1	Test procedure for a solid insulation type test	aller delle	Р
5.4.9.2	Test procedure for routine tests	(a), (a)	N/A
5.4.10	Protection against transient voltages between external circuit	ualo ua	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	- 10	N/A
5.4.10.2.1	General	are llo	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
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	dallah dallah	N/A
5.4.11.2	Requirements	- 000	N/A
Mis.	Rated operating voltage U <sub>op</sub> (V):	. 30	_
	Nominal voltage U <sub>peak</sub> (V):	Me.	_
	Max increase due to variation U <sub>sp</sub> :	OC.	_
100	Max increase due to ageing ΔU <sub>sa</sub> :	Clare	_
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$ :	War	_
5.5	Components a	s safeguards	
5.5.1	General	- Hab	N/A
5.5.2	Capacitors and RC units	9/3	N/A
5.5.2.1	General requirement	Char	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	S-27	N/A
5.5.7.2	Use of an SPD between mains and protective earth	Mellab	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	Mallo	N/A
5.6.2	Requirement for protective conductors		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
5.6.2.1	General requirements	ANS TO	N/A	
5.6.2.2	Colour of insulation		N/A	
5.6.3	Requirement for protective earthing conductors	190	N/A	
	Protective earthing conductor size (mm²):	15,	_	
5.6.4	Requirement for protective bonding conductors	300	N/A	
5.6.4.1	Protective bonding conductors	action of	N/A	
	Protective bonding conductor size (mm²):	de	_	
	Protective current rating (A):	der	_	
5.6.4.3	Current limiting and overcurrent protective devices	ME	N/A	
5.6.5	Terminals for protective conductors		N/A	
5.6.5.1	Requirement	AUNC	N/A	
Sila	Conductor size (mm²), nominal thread diameter (mm)	day day	N/A	
5.6.5.2	Corrosion	Osc. Mar	N/A	
5.6.6	Resistance of the protective system		N/A	
5.6.6.1	Requirements	than the	N/A	
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	N/A	
5.6.7	Reliable earthing	No.	N/A	
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A	
5.7.2	Measuring devices and networks	410-	N/A	
5.7.2.1	Measurement of touch current	(See appended table 5.7.4)	N/A	
5.7.2.2	Measurement of prospective touch voltage	Mello	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	Va.	N/A	
den	System of interconnected equipment (separate connections/single connection)	in Malla	_	
Man	Multiple connections to mains (one connection at a time/simultaneous connections)	Jeffer den	_	
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):	IN THE INC.		
	Measured current (mA)	913.	_	
	Instructional Safeguard	(See F.4 and F.5)	N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	Melle	N/A	
5.7.6.1	Touch current from coaxial cables		N/A	
5.7.6.2	Prospective touch voltage and touch current from external circuits	Malla	92	



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· da	IEC 62368-1	War	da
Clause	Requirement + Test	Result - Remark	Verdict
5.7.7	Summation of touch currents from external circuits	1/1/2	N/A
Mass	a) Equipment with earthed external circuits Measured current (mA)	ettab metta	N/A
Wa	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	57	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications	Melle	Р
6.2.2.1	General		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)	N/A
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	N/A
6.2.2.6	PS3:	(See appended table 6.2.2)	N/A
6.2.3	Classification of potential ignition sources	1130	N/A
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	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:	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	N/A
6.3.1 (b)	Combustible materials outside fire enclosure	NA.	N/A
6.4	Safeguards against fire under single fault conditions		N/A
6.4.1	Safeguard Method	TD. Mella	N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	0.0	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	ellan Mello	N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards	OELA DELLA	N/A
	Special conditions if conductors on printed boards are opened or peeled	91/2	N/A
6.4.3.3	Single Fault Conditions:	(See appended table 6.4.3)	N/A
Ö	Special conditions for temperature limited by fuse	1100	N/A
6.4.4	Control of fire spread in PS1 circuits	100000	N/A
6.4.5	Control of fire spread in PS2 circuits	rellar	N/A
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.6	Control of fire spread in PS3 circuit	AD MARIO	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:	(See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers	THE STATE	N/A
6.4.8.1	Fire enclosure and fire barrier material properties	de	N/A
6.4.8.2.1	Requirements for a fire barrier	O'ou	N/A
6.4.8.2.2	Requirements for a fire enclosure	Melle	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	ACRES	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No openings	N/A
and like	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):	No openings	N/A
35	Flammability tests for the bottom of a fire enclosure	Ma.	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	Mallan	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	uab	N/A
6.5	Internal and external wiring	Was	N/A
6.5.1	Requirements	TA.	N/A
6.5.2	Cross-sectional area (mm²)	Ip reflan	_
6.5.3	Requirements for interconnection to building wiring	(See Annex Q.)	N/A
6.6	Safeguards against fire due to connection to additional equipment	Page Maye	N/A
Ma	External port limited to PS2 or complies with Clause Q.1	- 30	N/A



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Clause	Requirement + Test	Result - Remark	Verdict

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES  Reduction of exposure to hazardous substances		N/A
7.2			N/A
7.3	Ozone exposure	9	N/A
7.4	Use of personal safeguards (PPE)	der	N/A
	Personal safeguards and instructions:	Walle M	_
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010)	1130	_
7.6	Batteries	(See Annex M)	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	MS1	Р
8.3	Safeguards against mechanical energy sources	Usi. War	Р
8.4	Safeguards against parts with sharp edges and corners		P
8.4.1	Safeguards	Mega.	Р
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	Metlab	N/A
8.5.2	Instructional Safeguard:	-	_
8.5.4	Special categories of equipment comprising moving parts	Mellab	N/A
8.5.4.1	Large data storage equipment	945	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	ip Mellap	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A
8.5.4.2.2	Instructional safeguards against moving parts	1819	N/A
	Instructional Safeguard	elle Me	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)	1130	N/A
8.5.5	High Pressure Lamps	Ma. de	N/A
8.5.5.1	Energy Source Classification	.50	N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability		N/A
8.6.1	Product classification	dela	N/A
0.51	Instructional Safeguard	Mar	_
8.6.2	Static stability		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.6.2.2	Static stability test	Malla	N/A
Mello	Applied Force:		_
8.6.2.3	Downward Force Test	410D 4000	N/A
8.6.3	Relocation stability test	192	N/A
11/2	Unit configuration during 10° tilt	VA.	
8.6.4	Glass slide test	rietian M	N/A
8.6.5	Horizontal force test (Applied Force):	All S	N/A
	Position of feet or movable parts	130	_
8.7	Equipment mounted to wall or ceiling	"VIZ.	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force:	VAC	N/A
8.8	Handles strength	- 14	N/A
8.8.1	Classification	130	N/A
8.8.2	Applied Force	a. da.	N/A
8.9	Wheels or casters attachment requirements	. 14	N/A
8.9.1	Classification	112,130	N/A
8.9.2	Applied force	110.	
8.10	Carts, stands and similar carriers	der	N/A
8.10.1	General	Man	N/A
8.10.2	Marking and instructions	22.0	N/A
	Instructional Safeguard:	-1130	
8.10.3	Cart, stand or carrier loading test and compliance	May .	N/A
	Applied force	0	_
8.10.4	Cart, stand or carrier impact test	in wells	N/A
8.10.5	Mechanical stability	(36.5)	N/A
Ma	Applied horizontal force (N)	-0 03	_
8.10.6	Thermoplastic temperature stability (°C)	Plan Man	N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General	1130	N/A
8.11.2	Product Classification	Man	N/A
8.11.3	Mechanical strength test, variable N	- 6	N/A
8.11.4	Mechanical strength test 250N, including end stops	areflass	N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
9	THERMAL BURN INJURY	///0"	Р
9.2	Thermal energy source classifications		Р
9.3	Safeguard against thermal energy sources		Р
9.4	Requirements for safeguards		Р
9.4.1	Equipment safeguard		Р
9.4.2	Instructional safeguard:		Р

10	RADIATION		N/A
10.2	Radiation energy source classification	Merry	N/A
10.2.1	General classification		N/A
10.3	Protection against laser radiation		N/A
der	Laser radiation that exists equipment:	VIX.	_
5	Normal, abnormal, single-fault	(See attached laser test report)	N/A
	Instructional safeguard	18b	_
12/12	Tool:		_
10.4	Protection against visible, infrared, and UV radiation	ietisb wei	N/A
10.4.1	General	1/45	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	· · · · · · · · · · · · · · · · · · ·	N/A
10.4.1.b)	RS3 accessible to a skilled person	Mella	N/A
	Personal safeguard (PPE) instructional safeguard:	de	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	Mello	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	(See appended table B.3 & B.4)	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	to Netlab	N/A
10.4.1.f)	UV attenuation	58.5	N/A
10.4.1.g)	Materials resistant to degradation UV	-10 0/3	N/A
10.4.1.h)	Enclosure containment of optical radiation:	Ella. Mar	N/A
10.4.1.i)	Exempt Group under normal operating conditions:		N/A
10.4.2	Instructional safeguard	Maga, M	N/A
10.5	Protection against x-radiation	CALSY	N/A
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
3	Normal, abnormal, single fault conditions	Ma	N/A
	Equipment safeguards:		N/A
	Instructional safeguard for skilled person:	- Allah	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	9/30,	_

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- 200	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A
MEHAN	Maximum radiation (pA/kg)	,	N/A
10.6	Protection against acoustic energy sources	algo della	N/A
10.6.1	General	19. 96.	N/A
10.6.2	Classification	NA.	N/A
	Acoustic output, dB(A):	sellan M	N/A
	Output voltage, unweighted r.m.s:	de.	N/A
10.6.4	Protection of persons	Q <sub>0</sub> ,	N/A
	Instructional safeguards:	Method	N/A
	Equipment safeguard prevent ordinary person to RS2		_
dela	Means to actively inform user of increase sound pressure:	95.00	_
2	Equipment safeguard prevent ordinary person to RS2:	dellah del	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	0.00	N/A
10.6.5.1	Corded passive listening devices with analog input	Mellah Mell	N/A
W	Input voltage with 94 dB(A) L <sub>Aeq</sub> acoustic pressure output:	of the same of the	_
10.6.5.2	Corded listening devices with digital input	Malla	N/A
	Maximum dB(A):	1963	_
10.6.5.3	Cordless listening device	1130	N/A
de	Maximum dB(A):	Mac	_

В	NORMAL OPERATING CONDITION TESTS, A CONDITION TESTS AND SINGLE FAULT CON		Р
B.2	Normal Operating Conditions		Р
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Р
di	Audio Amplifiers and equipment with audio amplifiers	(See Annex E)	N/A
B.2.3	Supply voltage and tolerances	Magne	Р
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	1130	Р
B.3.1	General requirements	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test	10	N/A
B.3.4	Setting of voltage selector	.013	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
B.3.5	Maximum load at output terminals	Full load.	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	iettap Metta	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions		N/A
B.4	Simulated single fault conditions	Waller WA	Р
B.4.2	Temperature controlling device open or short-circuited:	(See appended table B.4)	Р
B.4.3	Motor tests	Metho	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	ANYC	Р
B.4.4.1	Short circuit of clearances for functional insulation		Р
B.4.4.2	Short circuit of creepage distances for functional insulation	Tab Wallan	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		P
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	Magan	N/A
B.4.6	Short circuit or disconnect of passive components	66	N/A
B.4.7	Continuous operation of components	421/91	Р
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	100	Р
B.4.9	Battery charging under single fault conditions:	(See Annex M)	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	ib deliab	N/A
C.1.2	Requirements	979.	N/A
C.1.3	Test method	la u	N/A
C.2	UV light conditioning test	ellan Magne	N/A
C.2.1	Test apparatus	M. Committee of the com	N/A
C.2.2	Mounting of test samples	des	N/A
C.2.3	Carbon-arc light-exposure apparatus	Magni	N/A
C.2.4	Xenon-arc light exposure apparatus	500.00	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	Ma	N/A
D.2	Antenna interface test generator	1000000	N/A
D.3	Electronic pulse generator	4/20	N/A



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	·	. 17 V/3 <sup>1</sup>	
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions		N/A
	Audio signal voltage (V)	e12D 015/10	_
-	Rated load impedance (Ω):	(A)	N/A
E.2	Audio amplifier abnormal operating conditions	344	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	0.5	Р
	Instructions – Language	English	_
F.2	Letter symbols and graphical symbols	Mer	P
F.2.1	Letter symbols according to IEC60027-1		Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	ANNE	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	120	Р
F.3.2	Equipment identification markings	10. 20.	Р
F.3.2.1	Manufacturer identification:		_
F.3.2.2	Model identification:	1130 1150	_
F.3.3	Equipment rating markings	VIA.	Р
F.3.3.1	Equipment with direct connection to mains		Р
F.3.3.2	Equipment without direct connection to mains	. MSNo	N/A
F.3.3.3	Nature of supply voltage		_
F.3.3.4	Rated voltage:	5V	_
F.3.3.4	Rated frequency:	Ma	
F.3.3.6	Rated current or rated power:	30	_
F.3.3.7	Equipment with multiple supply connections	TD reflect	N/A
F.3.4	Voltage setting device	040	N/A
F.3.5	Terminals and operating devices	lan ee	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	Page Man	N/A
F.3.5.2	Switch position identification marking:		Р
F.3.5.3	Replacement fuse identification and rating markings:	Magaz, M.	N/A
F.3.5.4	Replacement battery identification marking:	10	N/A
F.3.5.5	Terminal marking location	ole II Sie	Р
F.3.6	Equipment markings related to equipment classification	0.00	Р
F.3.6.1	Class I Equipment	rellar	N/A
F.3.6.1.1	Protective earthing conductor terminal	0//20	N/A



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day	IEC 62368-1	11.00	
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1.2	Neutral conductor terminal	ANS TO	N/A
3.6.1.3	Protective bonding conductor terminals		N/A
3.6.2	Class II equipment (IEC60417-5172)	19/2	N/A
3.6.2.1	Class II equipment with or without functional earth	15.	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	della	N/A
<del>-</del> .3.7	Equipment IP rating marking	IPX0	_
F.3.8	External power supply output marking	- 10	N/A
=.3.9	Durability, legibility and permanence of marking	atello.	Р
3.10	Test for permanence of markings		Р
4	Instructions		Р
della	a) Equipment for use in locations where children not likely to be present – marking	95%	Р
2	b) Instructions given for installation or initial use	den a	Р
	c) Equipment intended to be fastened in place	Asi. Mar.	Р
Mall	d) Equipment intended for use only in restricted access area		N/A
-	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	Mega, Mer	N/A
	f) Protective earthing employed as safeguard	130	Р
	g) Protective earthing conductor current exceeding ES 2 limits	VNS.	Р
	h) Symbols used on equipment	1130	Р
de	i) Permanently connected equipment not provided with all-pole mains switch	9Mg	N/A
)	j) Replaceable components or modules providing safeguard function	ip Wellap	N/A
<del>-</del> .5	Instructional safeguards		Р
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	ellah Mellai	Р
3	COMPONENTS		Р
3.1	Switches	Alan Ma	N/A
G.1.1	General requirements	All a	N/A
G.1.2	Ratings, endurance, spacing, maximum load	d <sub>res</sub>	N/A
3.2	Relays	Mella	N/A
3.2.1	General requirements	040	N/A
G.2.2	Overload test	dela	N/A
G.2.3	Relay controlling connectors supply power	Man	N/A
G.2.4	Mains relay, modified as stated in G.2		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.3	Protection Devices	Way.	N/A
G.3.1	Thermal cut-offs		N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	Tellap Mello	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	00	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	Men w	N/A
G.3.2	Thermal links	o'a.	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	Melle	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H):		_
der	Single Fault Condition:	SE	_
5110	Test Voltage (V) and Insulation Resistance ( $\Omega$ ). :		_
G.3.3	PTC Thermistors	13b	N/A
G.3.4	Overcurrent protection devices	-	Р
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	Magain Ma.	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	alstle A	N/A
G.4.1	Spacings	848	N/A
G.4.2	Mains connector configuration	den	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	Meg	N/A
G.5	Wound Components	0000	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°	less en	N/A
G.5.1.2 b)	Construction subject to routine testing	CHB. Wes	N/A
G.5.2	Endurance test on wound components	34	N/A
G.5.2.1	General test requirements	de	N/A
G.5.2.2	Heat run test	Man de	N/A
	Time (s)		_
	Temperature (°C)	CH2D	_
G.5.2.3	Wound Components supplied by mains	7/6	N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	Mella	N/A
300	Position:	Clare Control	_

de	IEC 62368-1	11/2	136.51
Clause	Requirement + Test	Result - Remark	Verdict
20	Method of protection:	D Allegon	_
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:	Elfa), della	_
G.5.3.3	Overload test	(See appended table B.3)	N/A
G.5.3.3.1	Test conditions	No.	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	Sellan M.	N/A
G.5.3.3.3	Winding Temperatures – Alternative test method	98	N/A
G.5.4	Motors	der	N/A
G.5.4.1	General requirements	10150	N/A
	Position:		_
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test	VIE.	N/A
G.5.4.4	Locked-rotor overload test	W-W	N/A
	Test duration (days)	130	_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	960	N/A
G.5.4.5.2	Tested in the unit	1180	N/A
	Electric strength test (V)	1/42	_
G.5.4.5.3	Tested on the Bench – Alternative test method; test time (h)	della	N/A
	Electric strength test (V)	Ole .	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	dellab	N/A
G.5.4.6.2	Tested in the unit	1100	N/A
	Maximum Temperature		N/A
- 2	Electric strength test (V)	10	N/A
G.5.4.6.3	Tested on the bench – Alternative test method; test time (h):	Yes.	N/A
	Electric strength test (V)	Han May	N/A
G.5.4.7	Motors with capacitors	97	N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors	Malla M	N/A
	Operating voltage:	(38.5)	_
G.6	Wire Insulation	1120	N/A
G.6.1	General	Was	N/A
G.6.2	Solvent-based enamel wiring insulation	100000	N/A
G.7	Mains supply cords	) rellar	N/A
G.7.1	General requirements	de	N/A

day	IEC 62368-1	71/15	19.5
Clause	Requirement + Test	Result - Remark	Verdict
30	Туре:	Sp Wighter	
MEHan	Rated current (A)		
4.95	Cross-sectional area (mm²), (AWG):	algo dela	
G.7.2	Compliance and test method	15. 11.	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Hab	N/A
G.7.3.2	Cord strain relief	No.	N/A
G.7.3.2.1	Requirements	-30	N/A
65	Strain relief test force (N):	MELLE	_
G.7.3.2.2	Strain relief mechanism failure		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	NY	N/A
G.7.4	Cord Entry:	(See appended table 5.4.11.1)	N/A
G.7.5	Non-detachable cord bend protection	120 12/18/2	N/A
G.7.5.1	Requirements	of a	N/A
G.7.5.2	Mass (g)	74	_
	Diameter (m)	16/13/2	_
	Temperature (°C):	9.0	_
G.7.6	Supply wiring space	der	N/A
G.7.6.2	Stranded wire	War	N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors	-1130	N/A
G.8.1	General requirements	100	N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire	ab Mella	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	TELISION MED	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	97	N/A
G.9.1 b)	Limiters do not have manual operator or reset	della	N/A
G.9.1 c)	Supply source does not exceed 250 VA:	Man. da	
G.9.1 d)	IC limiter output current (max. 5A)		_
G.9.1 e)	Manufacturers' defined drift:	reff Sty	_
G.9.2	Test Program 1	110	N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3	Mallo	N/A
G.10	Resistors		N/A



day	IEC 62368-1	71.00	100
Clause	Requirement + Test	Result - Remark	Verdict
G.10.1	General requirements	AD ANSTON	N/A
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 coaxial cable	Izitap Matte	N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test	Mella M	N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units	1130	N/A
G.11.1	General requirements	*WZ	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	A.s.	N/A
5	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	Tap Wallap	N/A
Malle	Type test voltage Vini:		_
	Routine test voltage, Vini,b:	1130 1131	_
G.13	Printed boards	Man and	Р
G.13.1	General requirements	64	Р
G.13.2	Uncoated printed boards	atella.	N/A
G.13.3	Coated printed boards	019	N/A
G.13.4	Insulation between conductors on the same inner surface	usliab	N/A
199	Compliance with cemented joint requirements (Specify construction):	949	_
G.13.5	Insulation between conductors on different surfaces	Ip. Mellan	N/A
NS	Distance through insulation	(See appended table 5.4.4.5)	N/A
	Number of insulation layers (pcs):	Hap wells	
G.13.6	Tests on coated printed boards	7	N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning	" Allah	N/A
G.13.6.2b)	Electric strength test	913	N/A
G.13.6.2c)	Abrasion resistance test	deri	N/A
G.14	Coating on components terminals	Maria	N/A
G.14.1	Requirements	(See G.13)	N/A
G.15	Liquid filled components	1/30	N/A
G.15.1	General requirements	Ma	N/A
G.15.2	Requirements		N/A

day	IEC 62368-1	11.9%	
Clause	Requirement + Test	Result - Remark	Verdict
G.15.3	Compliance and test methods	AD ANSTON	N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test	algo della	N/A
G.15.3.3	Tubing and fittings compatibility test	199	N/A
G.15.3.4	Vibration test	NA.	N/A
G.15.3.5	Thermal cycling test	action with	N/A
G.15.3.6	Force test	9.6	N/A
G.15.4	Compliance	Op.	N/A
G.16	IC including capacitor discharge function (ICX)	Media	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours		N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage:	95.00	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	dellate dell	N/A
C2)	Test voltage	A. M.	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Mellah Mell	N/A
D2)	Capacitance:	963	
D3)	Resistance:	dela	_
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General		N/A
H.2	Method A	uglion	N/A
H.3	Method B	Ola.	N/A
H.3.1	Ringing signal	det. "	N/A
H.3.1.1	Frequency (Hz)	Wen	
H.3.1.2	Voltage (V)		
H.3.1.3	Cadence; time (s) and voltage (V):	ugh ughan	
H.3.1.4	Single fault current (mA)::	150	_
H.3.2	Tripping device and monitoring voltage:		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	Mallan Ma	N/A
H.3.2.2	Tripping device	Lo.	N/A
H.3.2.3	Monitoring voltage (V):	religio	_
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	N/A
	General requirements	(See separate test report)	N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A

day	IEC 62368-1	7145	1 1 1
Clause	Requirement + Test	Result - Remark	Verdict
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance:	(See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test:	(See appended table 5.4.11)	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR 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		Р
	- 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)	Р



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Clause	Requirement + Test	Result - Remark	Verdict			
M.4	Additional safeguards for equipment containing secondary lithium battery		Р			
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		N/A			
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A			
M.4.4.2	Preparation		N/A			
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		Р			
M.5.1	Requirement		Р			
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A			
M.6	Prevention of short circuits and protection from other effects of electric current		N/A			
M.6.1	Short circuits		N/A			
M.6.1.1	General requirements		N/A			
M.6.1.2	Test method to simulate an internal fault		N/A			
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A			
M.6.2	Leakage current (mA):		N/A			
M.7	Risk of explosion from lead acid and NiCd batteries		N/A			
M.7.1	Ventilation preventing explosive gas concentration		N/A			
M.7.2	Compliance and test method		N/A			
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A			
M.8.1	General requirements		N/A			
M.8.2	Test method		N/A			
M.8.2.1	General requirements		N/A			
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):		_			
M.8.2.3	Correction factors:		_			



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Clause	Requirement + Test	Result - Remark	Verdict
M.8.2.4	Calculation of distance <i>d</i> (mm):	AD	_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A
N	ELECTROCHEMICAL POTENTIALS		Р
	Metal(s) used:	Pollution degree considered	_
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:		_
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements		N/A
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm)		_
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
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)	Conditioning testing		N/A
	Tc (°C):		_
	Tr (°C)		
	Ta (°C)		_
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1 a)	Inherently limited output		N/A

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day	IEC 62368-1	11/2	138.51	
Clause	Requirement + Test	Result - Remark	Verdict	
Q.1.1 b)	Impedance limited output		N/A	
· · · · · ·	- Regulating network limited output under normal operating and simulated single fault condition		N/A	
Q.1.1 c)	Overcurrent protective device limited output		N/A	
Q.1.1 d)	IC current limiter complying with G.9		N/A	
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	General requirements		N/A	
R.2	Determination of the overcurrent protective device and circuit		N/A	
R.3	Test method Supply voltage (V) and short-circuit current (A)):			
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A	
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A	
	Samples, material:			
	Wall thickness (mm)		_	
	Conditioning (°C):		_	
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A	
	- Material not consumed completely		N/A	
	- Material extinguishes within 30s		N/A	
	- No burning of layer or wrapping tissue		N/A	
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A	
	Samples, material:			
	Wall thickness (mm):		_	
	Conditioning (°C)		_	
	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	
S.3	Flammability test for the bottom of a fire enclosure		N/A	
	Samples, material:		_	
	Wall thickness (mm):		_	
	Cheesecloth did not ignite		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
S.4	Flammability classification of materials	AD	N/A
S.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
	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		Р
T.2	Steady force test, 10 N	(See appended table T.2)	Р
T.3	Steady force test, 30 N	(See appended table T3)	Р
T.4	Steady force test, 100 N	(See appended table T4)	Р
T.5	Steady force test, 250 N	(See appended table T5)	Р
T.6	Enclosure impact test	(See appended table T6)	Р
	Fall test		Р
	Swing test		Р
T.7	Drop test	(See appended table T7)	N/A
T.8	Stress relief test	(See appended table T8)	Р
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		Р
T.9.2	Impact test and compliance		Р
	Impact energy (J):	3,5J	
	Height (m)	714mm	_
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen	(See Annex T)	N/A



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do	IEC 62368-1	Maria	da
Clause	Requirement + Test	Result - Remark	Verdict

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		
V.1	Accessible parts of equipment		
V.2	Accessible part criterion		N/A

#### 误! 未找到引用源。

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

4.1.2	TABLE:	List of critical compor	nents			Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
PCB	West	JIANGXI ZHIBOXIN TECHNOLOGY CO LTD	ZBX001	V-0, 130°C	UL 796	UL E465280
Internal wire	е	KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1007	300VAC, 22AWG, 80°C	EN 62368-1	UL E315421
Plastic enclo	sure	SABIC JAPAN L L C	PDR4908	Min1.5mm, V-0 130°C	UL 746C	UL E45587
Battery	ip.	hudson electronics(HK) limited	522530	3.7Vdc,300mA	EN 62368-1	Test with appliance

Supplementary information:

<sup>&</sup>lt;sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

<sup>&</sup>lt;sup>2)</sup> Description line content is optional. Main line description needs to clearly detail the component used for testing



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4.8.4, 4.8.5					
	ing mechanica	al tests are conducted in the seque	nce noted.)	2000	
4.8.4.2	TABLE: St	ress Relief test	als.	_	
ı	Part	Material	Oven Temperature (°C)	Comments	
	- 41310	-Iellan	Wer-	018.	
4.8.4.3 TABLE: Battery replacement test		attery replacement test	10	_	
Battery pa	rt no	:	- rellan	_	
Battery Installation/withdrawal		drawal	Battery Installation/Removal Cycle	Comments	
	17.0		1		
			2		
			3		
			4	915	
			5		
			6	4-	
			8	163/3-	
			9		
			10	-120	
1.8.4.4	TABLE: Dro	op test	Mellan	_	
mpact Are	ea	Drop Distance	Drop No.	Observations	
de	Тор	1m	1 1 1 INSTAN	No damaged , no hazards	
Во	ottom	1m	2	No damaged , no hazards	
MSIOS	Side	-1m	3	No damaged , no hazards	
4.8.4.5	TABLE: Im	pact	11012	_	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments	
9/1/2-		000		d <sub>e</sub> L	
	- 10	- 430	"16H2h	Maria	
	- Idlian	Man	913		
4.8.4.6	TABLE: Cr	ush test	dere	_	
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)	
	000		des - v		
· · · · · · · · · · · · · · · · · · ·		5.00	131	24.50	



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3.5 TABLE: Lit	nium coin/button cell batteries n	nechanical test result	N/A
Test position	Surface tested	Force (N)	Duration force applied (s)
METTE	11/2-	265	
-		0/-10	1131

5.2	Table:	Classification of	electrical energy	sources				Р
5.2.2.2	2 – Steady Sta	te Voltage and Cu	urrent conditions					
	Committee	Location (e.g.			Parame	ters		
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpl	(Apk (	I or Arms)	Hz	ES Class
1	5V		Normal	- 120			11810	
	Clay	100	Abnormal	N/A	N/A	N.	N/A	ES1
	Clar	MA	Single fault – SC/OC				1/4	30
5.2.2.3	– Capacitano	ce Limits						
	Supply	Location (e.g.			Paramet	ers		F0.01
No.	Voltage	circuit designation)	Test conditions	Capacitance	e, nF	nF Upk (V)		ES Class
-	10	730	Normal	al				
	850		Abnormal	- la	der -			2
		Mellab	Single fault –		3		1135	
5.2.2.4	- Single Puls	ses	1	1				<b>'</b>
	Supply	Location (e.g.	T ( )		Paramet	ers		F0.01
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V	')   Ip	ok (mA)	ES Class
			Normal	118	75	3	12/10	
	6/19/2	~63	Abnormal	- 97/2				5/8.
	100	-	Single fault – SC/OC		della		. N.S	180
5.2.2.5	- Repetitive	Pulses				•		
NI.	Supply	Location (e.g.	Tank and diking		Paramete	rs		F0 01
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lp	k (mA)	ES Class
_	- 8	15	Normal		_			
			Abnormal	don	_	188		- 56
418		MEHBO	Single fault – SC/OC	15/1V	- 8			.000



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**Test Conditions:** 

Normal -

Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurement	ts				
	Supply voltage (V):	5Vdc	3.7Vdc Battery	dellar		_
10	Ambient T <sub>min</sub> (°C):	24,5	24,5			_
	Ambient T <sub>max</sub> (°C):	24,6	24,6			_
30	Tma (°C):	25	25	ATEC		_
Maximum r	neasured temperature T of part/at:		Т (	(°C)		Allowed T <sub>max</sub> (°C)
PCB	100	29,8	31,2	8	13.	105
Button	Ma	28,8	29,9			105
Internal wir	е	26,6	26,6	)	77.63	80
Enclosure	rialo richar	28,8	30,0		344	130
Battery	12.	31,8	33,2			Ref
Supplemen	tary information:	0/2		1130		16/10

Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
dalles des		- 11 - 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		83	19-		- (7/ <u>1</u> -2)
70		136.57				30	

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Penetration (mm)		V2	_		
Object/ Part No./Material	Manufacturer/t rademark	T softening (°C)			
- 4/1/2		-	32		
Tiple of the state		"IGHS"	Maria		
supplementary information:					



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5.4.1.10.3	TABLE: Ball p	ressure test of thermoplastic	cs		Р
Allowed imp	pression diamete	r (mm):	≤ 2 mm	T.X	_
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)
Plastic encl	osure	Refer to CDF	75	1,1	
Supplement	tary information:		dab		Hap

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum (	Clearance	s/Creepaç	ge distance				N/A
	cl) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) <sup>1</sup>	Required cl (mm)	cl (mm) <sup>2</sup>	Required <sup>3</sup> cr (mm)	cr (mm)
Functional	111	10		Mer		VI.E.		
Sila	Mis							
				3	30-		2/1/2/2	
Reinforced:	in the	Stian	ı	We.		9	9	
- 11/2	100				- 14		- 3	do

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

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5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage				
	Overvoltage Category	y (OV):	dab	- 46	Ils.
	Pollution Degree:	18/10.	Ap.		
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Meas	ured cl (mm)
	1130	Mello-	Win.		de
Suppleme	ntary information:	040			

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				
1500	- 110			- AU				
Supplemen	tary information:	(3)	PHSP	Malla				

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	TABLE: Distance through insulation measurements							
Distance thi insulation di		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)			
	- Me.	91.00							
Supplement	ary informatio	n:	delfab	45	SHap	Mes			

Q	Vs'	tla	ab

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5.4.9	TABLE: Electric strength t	tests		Р
Test volta	age applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Function	al:	24/5		-10
SELV	er 1	DC	500V	No
Basic/su	oplementary:	arello all	2	de
	11/2	M.S.	- 10	la i
Reinforce	ed:	113/2	rellan	Mar
10	15/100		3.5	
Routine 7	Tests:	·		
- 100	deri	- 168	- 2000	🤳
Supplem	entary information:	de.		-70

- 34	- 47	23/2	1200	100	2
5.5.2.2 TABLE: St	ored discharg	je on capacito	ors	•	N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
2/75				6	1130
Supplementary informat X-capacitors installed fo	r testing are:	142118	O	Mella	Man
<ul><li>bleeding resistor rat</li></ul>	ing:				

☐ ICX:

Notes:

B. 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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5.6.6.2	TABLE: Resistance	e of protective conduc	tors and termina	tions	N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
Les .	Street	VI Par	040		-10
		- 20		4(3)2	15/12
	120	rello	AN.	2	die

5.7.2.2, TABLE: Earthed accessible conductive part 5.7.4				N/A
Supply vol	tage:	r. VIA.		_
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	To	uch current (mA)
Mer	(82)	1		do
		2*	19%	
		3		
		4		1130
		5	78	Na.
		6		310
		8		1121

## Supplementary Information:

### 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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6.2.2	Table: Electrica	l power sour	ces	(PS) measurements for	or classification	N/A
Source	Description	Measureme	ent	Max Power after 3 s	Max Power after 5 s*)	PS Classification
WE	E. C.	Power (W)	:	_ ~		-74
Α		V <sub>A</sub> (V)	:		436	#12H3F
	della	I <sub>A</sub> (A)	:	- 4		Ma.
	11/3	Power (W)	:			- 40
В		V <sub>A</sub> (V)	:	13/2-	Mellan	Marie
	-012/1910	I <sub>A</sub> (A)	:			
	(26.5)	Power (W)	:			
С		V <sub>A</sub> (V)	:	16.0	ATTAC	
	Me	I <sub>A</sub> (A)	:	110		
		Power (W)	:	·		1810
D	05	V <sub>A</sub> (V)	:	-1971	0/95	
		I <sub>A</sub> (A)	:			45

Supplementary Information:

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

6.2.3.1	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 <sub>p</sub> x I <sub>rms</sub> )	Arcing PIS? Yes / No			
100	- Mer	- 003						
			0/47	- 19/13				

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 ( $I_{rms}$ ) is greater than 15.



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6.2.3.2 Table: Determination 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	
	0/21.		30	MEllo	40		
-11971		- 9/1/2					

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	"ICHBD	N/A
Descriptio	n	Values	Energy Source Classification
Lamp type		·	_
Manufactu	ırer	- MSI	_
Cat no	AL-VE		_
Pressure (	(cold) (Mpa)	- ok.	MS_
Pressure (	(operating) (Mpa)	Ello - W	MS_
Operating	time (minutes)		_
Explosion	method	13/2	_
Max partic	cle length escaping enclosure (mm).:	Man -	MS_
Max partic	cle length beyond 1 m (mm):		MS_
Overall res	sult:	12/12/2	MELL
Suppleme	entary information:	2751	ob.

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B.2.5	TABLE: Inpu	ut test			200		Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5	260mA	2/9	2,8	3			Normal load
Supplement	tary information	n:	,-		-		den
	•		rated pow	er or both. Both	should be r	measured	

B.3 T.	ABLE: Abnorn	nal operating (	condition t	ests			-30			Р
Ambient tempe	Ambient temperature (°C) See below									_
Power source	or EUT: Manut	facturer, model	/type, outpu	ut rating	.:	hudso limited	on electroni d	cs(HK)		_
Component N	o. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	curre	nt, (A)	T-couple	Temp. (°C)	0	bservation
U17	Shor- Circuit	5V	10min		0,0	)18			n	o working, o damage, o hazards.
U2	Shor- Circuit	5V	10min		0,0	)21			r d	Working normal no amage, no hazards.

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.



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Clause	Requirement + Test	Result - Remark	Verdict

B.4 1	TABLE: Fault condition tests										
Ambient temp	erature (°C)				:	9/0		1810	-	_	
Power source	for EUT: Manu	ıfacturer, mode	l/type, outp	ut rating	V:			100	_	_	
Component N	lo. Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		nt, (A)	T-couple	Temp. (°C)	Observ	ation	
Supplementa	ry information:										

		100	4.0	17/21		160			21.45
Annex M	TABLE: Ba	tteries							Р
The tests of	f Annex M ar	e applicable	only when ap	propriate b	attery data	a is not ava	ailable		
Is it possible	e to install the	e battery in	a reverse pola	rity positio	n?	:	NO		
	Non-	rechargeab	le batteries		ſ	Rechargea	ble batteri	es	
	Disc	charging	Un-	Cha	rging	Disch	arging	Reverse	d chargin
	Meas.	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. currer during norm condition			Nellan	275mA	300mA	250mA	300mA	60mA	300mA
Max. currer during fault condition	-		Mall	0mA	300mA	0mA	300mA	0mA	300mA
			<u>.</u>						
Test results	:						100		Verdict
- Chemical	leaks	5	0	10			NO	7.2	Р
- Explosion	of the batter	у	No.		der		NO	3/2	Р
- Emission	of flame or ex	kpulsion of r	nolten metal	MIS	11.		NO		Р
- Electric st	rength tests	of equipmen	t after complet	ion of tests	S		NO	270	Р
Supplemen	tary informat	ion:	SHap	2	METTE	1/2	d	Azgra	



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Annex M.4	Table: Add batteries	itional safe	eguards for eq	uipment cor	P			
	ry/Cell	Test	conditions		Measuremen	ts	Observation	
N	0.	r oot oorialtione		U	I (A)	Temp (C)		
Battery	der.	Normal	1.4131	4,1	0,27	29,8	NO DAMAGE	
Battery(SC)	Mann	Abnormal	des	4,0	0,06	25,2	NO DAMAGE	
U5(SC)		Single faul	t –SC/OC	0	0	25,1	SHUT DOWN	
Supplement	ary Informati	on:		Ile.	*1172	15	95	
Battery identificati	-	arging at Γ <sub>lowest</sub> (°C)	Observa	vation Charging at T <sub>highest</sub> (°C)		Ob	Observation	

Annex Q.1	TABLE: Circuits in	tended for inter	connection with	building wirir	ng (LPS)	N/A
Note: Meas	sured UOC (V) with all	load circuits disc	connected:			
Output	Components	U <sub>oc</sub> (V)	I <sub>sc</sub> (	s (A) S (VA)		/A)
Circuit			Meas.	Limit	Meas.	Limit
	10/20	- GF 20				

Supplementary Information:



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T.2, T.3, T.4, T.5	ABLE: Steady force	etest		de	Р
Part/Location	n Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top enclosur	e	2.0	250	5	No damage
Bottom enclos	ure	2.0	250	5	No damage
Side enclosu	re	2.0	250	5	No damage
Supplementary	/ information:		de	TELIBR	WED

T.6, T.9	TAB	LE: Impact tests				N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)	Observation	
-		012			alex.	
Supplementa	Supplementary information:					

T.7 T/	ABLE: Drop tests			in Object	A SO P
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Overall	hardwood	13	750	normal	-613p
1	days	SILETA.	S-2	MSIL	1112
Supplementary	information:				

T.8	TABLE: Stress relie	f test	15110	Ma	Р
Part/Location	on Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Plastic enclos	sure 940(f1)	2.0	70	7	No deformation
Supplementa	ry information:			de	-4130

	1 490 10 01 00	1.000111101110111002	.00 1011
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# ATTACHMENT TO TEST REPORT IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to ...... EN 62368-1:2014

Attachment Form No. ..... EU\_GD\_IEC62368\_1B

Attachment Originator....: Intertek Semko AB

Master Attachment .....: Date (2015-08)

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**Equipment and Components (IECEE)** 

10	<b>CENELEC COMMON MODIFICATIONS (EN)</b>	*172	082
1	NOTE Z1		Р
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:	Mac	N/A
12	a) Included as parts of the equipment	der, a	N/A
1/2	b) For components in series with the mains; by devices in the building installation	Har.	N/A
Mer	c) For pluggable type B or permanently connected; by devices in the building installation	wellab well	N/A
5.4.2.3.2.4	Interconnection with external circuit		Р
10.2.1	Additional requirements in 10.5.1	130	N/A
10.5.1	RS1 compliance measurement conditions	NS	N/A
10.6.2.1	EN 71-1:2011, 4.20 and methods and distances	der	N/A
10.Z1	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	Man	N/A
G.7.1	NOTE Z1	0/4/	N/A

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITION	IS (EN)	Р
4.1.15	Denmark, Finland, Norway and Sweden: Class I pluggable equipment type A marking	Hap Mella	Р
4.7.3	United Kingdom: Torque test socket-outlet BS 1363, and the plug part BS 1363.	dellah	N/A
5.2.2.2	Denmark: Warning for high touchcurrent	- 10	P
5.4.11.1 and Annex G	Finland and Sweden: Separation of the telecommunication network from earth	Mello	Р
5.5.2.1	Norway: Capacitors rated for the applicable line-to-line voltage (230 V).	Mallan	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Finland, Norway and Sweden: Resistors used as basic safeguard or bridging basic insulation comply with G.10.1 and G.10.2.	ettab wettal	N/A
5.6.1	Denmark: Protection for pluggable equipment type A; integral part of the equipment	Hab M	N/A
5.6.4.2.1	Ireland and United Kingdom: The protective current rating is taken to be 13 A	1130	N/A
5.6.5.1	Ireland and United Kingdom: Conductor sizes of flexible cords to be accepted by terminals for equipment rated 10 A to 13 A	Wee	N/A
5.7.5	Denmark: The installation instruction affixed to the equipment if high protective conductor current	IIab Wallah	N/A
5.7.6.1	Norway and Sweden: Television distribution system isolation text in user manual	weileh weil	N/A
5.7.6.2	Denmark: Warning for high touch current	don	N/A
B.3.1 and B.4	Ireland and United Kingdom: Tests conducted using an external miniature circuit breaker or protective devices included as an integral part of the direct plug-in equipment	Wallap	N/A
G.4.2	Denmark: Appliances rated ≤13 A provided with a plug according to DS 60884-2-D1:2011.	th Wellsh	N/A
	Class I equipment provided with socket- outlets provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	ettab Mettal	N/A
	If a single-phase equipment having rated >13 A or poly-phase equipment provided with a supply cord with a plug, plug in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	Mallap Ma	N/A
	Mains socket outlets intended for providing power to Class II apparatus rated 2,5 A in accordance with DS 60884-2-D1:2011 standard sheet DKA 1-4a.	Wellsb	N/A
delle	Other current rating socket outlets in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	Malla	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Mains socket-outlets with earth 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	ettab Metta	N/A
G.4.2	United Kingdom: The plug part of direct plug-in equipment assessed to BS 1363	Hap M	N/A
G.7.1	United Kingdom: Equipment fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768	Mellab	N/A
G.7.1	Ireland: Apparatus provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use	lab de-	N/A
G.7.2	Ireland and United Kingdom: A power supply cord for equipment which is rated over 10 A and up to and including 13 A.	nep nep	N/A

zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)	de	Р
10.5.2	Germany: Cathode ray tube intended for the display of visual images, authorization or application of type approval and marking.	Menanap	N/A
F.10	Italy: The power consumption in Watts (W) indicated on TV receiver and in instruction for use	b Wellah	N/A
Wallan	TV receivers provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.	ellah Mellah	N/A
MS	Marking for controls and terminals in Italian language.		N/A
	Conformity declaration according to the above requirements in the instruction manual	Mellan M.	N/A
0	First importers of TV receivers manufactured outside EEC previous conformity certification to the Italian Post Ministry and Certification number on the backcover.	Wellab	N/A

# -- Appendix 2: Photo Document



Photo 1: Overall view



Photo 2: Overall view



Photo 3: Overall view



Photo 4: Internal view

**W**stlab

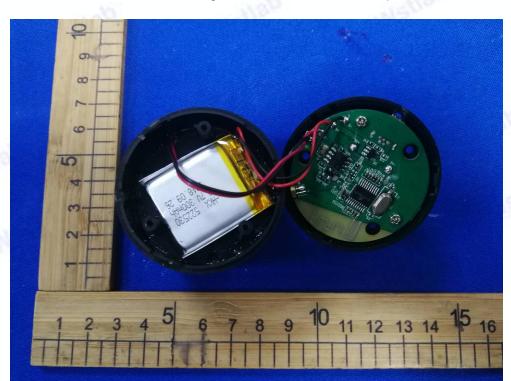


Photo 5: Internal view

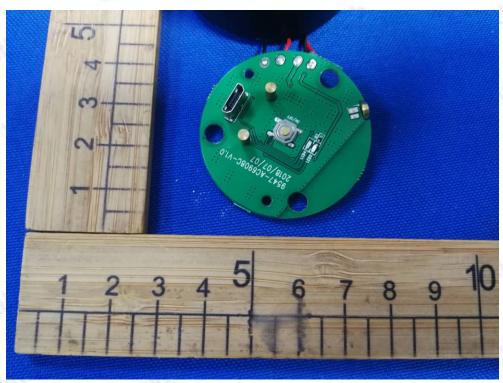


Photo 6:PCB view

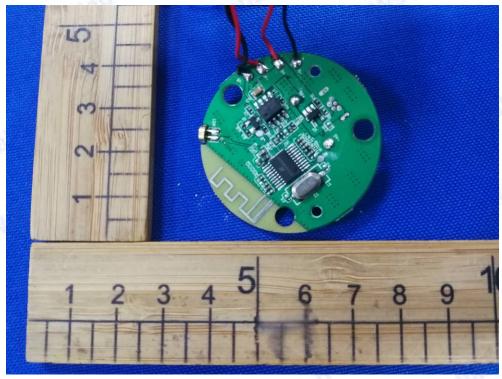


Photo 7:PCB view

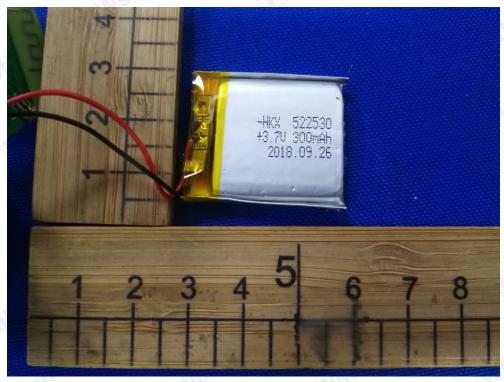


Photo 8:Battery view

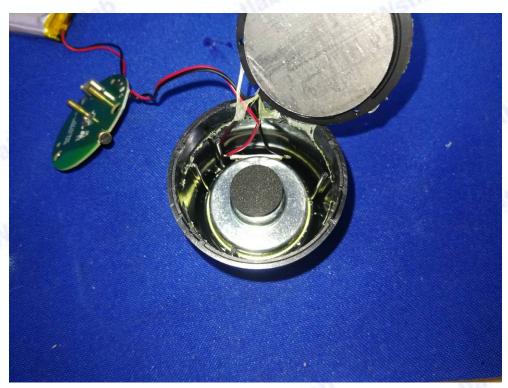


Photo 9: Internal view --- End of Report ---