

LVD TEST REPORT

On Behalf of

Product Name: INTELLIGENT PULSE REPAIR

Trademark: N/A

Model Number: XJB1210-2

Prepared For: Tianchang Jinjie Electronics Co., Ltd

Address: Union village Qinlan Town Tianchang City Anhui Provice

Prepared By: Shenzhen Huaxiang Testing Co, Ltd

Address: 1st Floor, Building A1, No. 2082 Jincheng Road, Shajing Street, Bao'an

District, Shenzhen City, Guangdong Province, China

Report No.: HUAX250428082KR

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TEST REPORT EN IEC 62368-1

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

Report Number.....: HUAX250428082KR

Date of issue...... Apr. 28, 2025

Applicant's name...... Tianchang Jinjie Electronics Co., Ltd

Address...... Union village Qinlan Town Tianchang City Anhui Provice

Test specification:

Standard...... EN IEC 62368-1:2024+A11:2024

Test procedure...... test report

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

 Test Report Form No......
 IEC60950_1G

 Test Report Form(s) Originator....
 SGS Fimko Ltd

 Master TRF.....
 Dated 2019-07-02

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

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

Test Item description:	INTELLIGENT PULSE REPAIR
Trade Mark:	N/A
Manufacturer:	Tianchang Jinjie Electronics Co., Ltd
Manufacturer Address:	Union village Qinlan Town Tianchang City Anhui Provice
Model/Type reference:	XJB1210-2
Ratings	Input Voltage:AC110-240V, 50-60Hz Output Voltage:12V-15.5V Output Current:DC 10A(4-180Ah)

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Testing procedure and te	sting location			HUAX
Laboratory name	: Shenzhen Huaxiar	ng Testing C	Co , Ltd	
Testing location/address:			32 Jincheng Road, Shaji gdong Province, China	ng Street, Bao'an
Testing procedure	: TL \boxtimes RMT \square	SMT □	WMT \square TMP \square	HUAXTESTING
Prepared by				HUAX
(Engineer)	Joan Wang	Joan	n wang	,
,	Joan wang	<i></i>	U	
Reviewed By (Supervisor)	Amy Jiang	e Ama	Jang	HUAX TESTING
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HUAXTESTING				

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List of Attachments (includin	g a total number o	f pages in each attachment):	
-Appendix 1: For requirements of	of European group di	ifferences. (9 pages)	
-Appendix 2: Photo attachment	s. (6 pages)		
Summary of testing:	CTING	STING	CTING
Tests performed (name of tes	t and test	Testing location:	XTES
clause):		Shenzhen Huaxiang Testing (Co , Ltd
All clauses.		1st Floor, Building A1, No. 208 Street, Bao'an District, Shenzl Province, China	hen City, Guangdong
HUAXTESTING		Province, Crima	
HUAXTESTING		HUAX TESTING	
Summary of compliance with	National Difference	:es:	
European group differences.			
100			
HUAXTESTI			
□ The product fulfils the req	uirements of	EN IEC 62368-1:2024+A11:2024	<u>1</u>
ine product rums the req	HUAX TESTING	<u>=N IEC 62368-1:2024+A11:202</u> 4	HUAX TESTING
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AXTESTING	AXTESTING	, AXTESTING	AXTESTING

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Copy of marking plate:

The artwork below may be only a draft.

INTELLIGENT PULSE REPAIR

Model: XJB1210-2

HUAX TESTING

Rating(s): Input Voltage:AC110-240V, 50-60Hz

Output Voltage:12V-15.5V Output Current:DC 10A(4-180Ah)



Tianchang Jinjie Electronics Co., Ltd

Union village Qinlan Town Tianchang City Anhui Provice

Made in China

HUAXTESTING

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TEST ITEM PARTICULARS:	
Classification of use by:	
	⊠ Skilled person
TING	
Supply Connection:	□ AC Mains □ DC Mains
HUAN HUAN	☐ External Circuit - not Mains connected
	- □ ES1 □ ES2 ⊠ ES3
Supply % Tolerance	
ING ING	□ +20%/-15%
TESI	□ + <u></u> %/ - <u></u> %
HUPT	□ None
Supply Connection – Type	☑ pluggable equipment type A -
	☐ non-detachable supply cord
JG JG	☐ appliance coupler
ESTING	⊠ direct plug-in
HUAX TESTING HUAX TESTING	☐ mating connector
Ho Ho	☐ pluggable equipment_type B -
	☐ non-detachable supply cord
	☐ appliance coupler
STING	permanent connection
	mating connector other:
Considered current rating of protective device as part of building or equipment installation:	<u>6</u> A;
	Installation location: 🗵 building; 🗆 equipment
Equipment mobility:	
CTING CTING	in ☐ rack-mounting ☐ wall-mounted
Over voltage category (OVC):	□ OVC I
HUM	□ OVC IV □ other:
Class of equipment:	☐ Class I
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
Altitude during operation (m):	
Altitude of test laboratory (m):	
Mass of equipment (kg):	⊠ <u>0.6</u> kg

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- test case does not apply to the test object	Possible test case ve	rdicts:	XTES	XTES
Test object does not meet the requirement	- test case does not ap	ply to the test object	: N/A	HUA
Testing	- test object does meet	the requirement	: P (Pass)	
Date (s) of performance of tests	- test object does not m	neet the requirement	: F (Fail)	
Date (s) of performance of tests	Testing	G	: TING	TING
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 comma / 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 equipme and methods. Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02: The application for obtaining a CB 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	Date of receipt of test it	tem	Apr. 24, 2025	WAX TES.
"(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 comma / 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 equipme 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) interpretentiative of the products from each factory has been provided When differences exist; they shall be identified in the General product information section. Name and address of factory (ies)	Date (s) of performance	e of tests	.: Apr. 24, 2025 - Apr. 28, 202	5
Throughout this report a comma / 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 equipme and methods. Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02: The application for obtaining a CB Test Certificate ncludes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) epresentative of the products from each factory has been provided	GENERAL REMARKS	3 :	-	
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	"(See appended table Throughout this repo The related applicable Determination of the te	e)" refers to a table appende ort a comma / point is OSM decisions have been or	d to the report. used as the decimal separate onsidered and the quirements f	ound fulfilled
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		ration nor out alouge 4.2.5	of IECEE 02:	
sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	7/12	7/1/9	27/19	GING
Name and address of factory (ies): GENERAL PRODUCT INFORMATION: Product Description – The products are Power INTELLIGENT PULSE REPAIR to be in indoor use only, electronic components mounted on PWB, External enclosure is plastic material, the plastic material of min.V-1 grade. Model Differences – N/A Additional application considerations – (Considerations used to test a component or sub-assemble)	includes more than one declaration from the Ma sample(s) submitted fo representative of the pr	e factory location and a anufacturer stating that the r evaluation is (are) roducts from each factory has	Not applicable ■	
GENERAL PRODUCT INFORMATION: Product Description – The products are Power INTELLIGENT PULSE REPAIR to be in indoor use only, electronic components mounted on PWB, External enclosure is plastic material, the plastic material of min.V-1 grade. Model Differences – N/A Additional application considerations – (Considerations used to test a component or sub-assemble)	When differences exi	st; they shall be identified ir	the General product informa	tion section.
GENERAL PRODUCT INFORMATION: Product Description — The products are Power INTELLIGENT PULSE REPAIR to be in indoor use only, electronic components mounted on PWB, External enclosure is plastic material, the plastic material of min.V-1 grade. Model Differences — N/A Additional application considerations — (Considerations used to test a component or sub-assemble)	Name and address of	f factory (ies)	: Same as manufacturer	TEST
Product Description – The products are Power INTELLIGENT PULSE REPAIR to be in indoor use only, electronic components mounted on PWB, External enclosure is plastic material, the plastic material of min.V-1 grade. Model Differences – N/A Additional application considerations – (Considerations used to test a component or sub-assemble)			HUAN	
The products are Power INTELLIGENT PULSE REPAIR to be in indoor use only, electronic components mounted on PWB, External enclosure is plastic material, the plastic material of min.V-1 grade. Model Differences – N/A Additional application considerations – (Considerations used to test a component or sub-assemble)	GENERAL PRODUCT	INFORMATION:		
mounted on PWB, External enclosure is plastic material, the plastic material of min.V-1 grade. Model Differences – N/A Additional application considerations – (Considerations used to test a component or sub-assemble	Product Description	G	TING	TING
N/A Additional application considerations – (Considerations used to test a component or sub-assemble)				
Additional application considerations – (Considerations used to test a component or sub-assemble	Model Differences –			
	N/A			
	Mr	G TING	TING	TING
N/A WAT THE TANK THE	7. 7.	n considerations – (Consid	erations used to test a compo	onent or sub-assembly) -
	N/A			

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)
Input terminal	ES3
Internal circuit	ES3
Output terminal	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts):

PS2

Source of power or PIS	Corresponding classification (PS)	
Input terminal	PS3	
Internal circuit	PS3	
Output terminal	PS1	

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical
N/A	N/A

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.)

Example: Wall mount unit

MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)	
Sharp edges and Comers	MS1	
Equipment mass (<7kg)	MS1	

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner – thermoplastic enclosure TS²

Source of thermal energy	Corresponding classification (TS)
External enclosure	TS1

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:		
Radiation (Clause 10)		
(Note: List the types of radiation present in the product a Example: DVD – Class 1 Laser Product	and the corresponding energy source classification.) RS1	
Type of radiation	Corresponding classification (RS)	
N/A	N/A	

, TE	. TE	. 75	
	ENERGY SO	OURCE DIAGRAM	
Indicate which energy sources	are included in the end	ergy source diagram. Inse	rt diagram below
NG.	⊠ ES ⊠ PS	⊠MS ⊠TS □F	RS
TESTING			
- LAU.			
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... IX TES







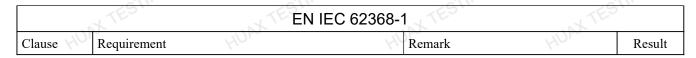
6711	-67/1	-C711		c711
OVERVIEW OF EMPLOYED SAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed	ES3: Input terminal	N/A	N/A	Enclosure
Ordinary; Instructed; Skilled	ES1: Output terminal	N/A	N/A	N/A
Ordinary; Instructed	ES3: Internal circuits	N	S	R
6.1	Electrically-caused fire	<u>, </u>		
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment	PS3: All internal circuits	N	S	N/A
Enclosure	PS1: Output terminals	N/A	N/A	N/A
7.1	Injury caused by hazardous	substances		
Body Part	Energy Source (hazardous material)	Safeguards		
(e.g., skilled)		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury	1		'
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed; Skilled	MS1: sharp edges and corners	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A

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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4	GENERAL REQUIREMENTS		Р
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.	TIME
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	TIMP
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)	Р
4.4.4.3	Drop tests:	(See Annex T.7)	P
4.4.4.4	Impact tests:	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	UPY HIUPY	Р
4.4.4.6	Glass Impact tests:		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)	TIM P
4.4.4.9	Accessibility and safeguard effectiveness	After test, all safeguard remains effective, No damaged	Р
4.5	Explosion	No explosion	Р
4.6	Fixing of conductors		Р
4.6.1	Fix conductors not to defeat a safeguard	All conductive parts are fixed on PCB by at least two soldering points; The primary and secondary lead wire were soldered to PCB and fixed by glue.	TIMP
4.6.2	10 N force test applied to:	Applied 10 N force, no loosen	Р
4.7	Equipment for direct insertion into mains socket - outlets	Y TESTING	TIMP
4.7.2	Mains plug part complies with the relevant standard:	See below	Р
4.7.3	Torque (Nm):	<0.25Nm	Р
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.2	Instructional safeguard	TEST	N/A
4.8.3	Battery Compartment Construction	UPY HUPY	N/A
	Means to reduce the possibility of children		_

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	EN IEC 62368	-1 XTES		
Clause	Requirement	Remark	HOM	Result
	removing the battery			
4.8.4	Battery Compartment Mechanical Tests:	(See Table 4.8.4)		N/A
4.8.5	Battery Accessibility	ESTING	750	N/A
4.9	Likelihood of fire or shock due to entry of	(See Annex P)	MAX	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	, NGP
5.2.2	ES1, ES2 and ES3 limits	TESTIM	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)	Р
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 EUT	N/A
5.2.2.6	Ringing signals:	No such ringing signals with the EUT	N/A
5.2.2.7	Audio signals:	No such audio signals with the EUT	N/A
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	(MGP
5.3.2.1	Accessibility to electrical energy sources and safeguards	JAX HUAX	Р
5.3.2.2	Contact requirements		Р
	a) Test with test probe from Annex V:	The probe could not insert into the equipment as there is no ventilation on the product.	ring P
HUP	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	S. Ho.	Р
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.	FINGP
5.4.1.3	Humidity conditioning::	(See sub-clause 5.4.8)	Р

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	XTES	EN IEC 62368-	1 X TES	NYTES	, ,
Clause	Requirement	HOLO	Remark	HOPE	Result

Clause	Requirement	Remark	Result
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	Р
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		N/A
5.4.1.7	Insulation in circuits generating starting pulses	-ING	, NGP
5.4.1.8	Determination of working voltage	, TESTI	Р
5.4.1.9	Insulating surfaces	Considered.	Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	See below	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)	LING P
5.4.2	Clearances	ta. ta.	Р
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	Р
5.4.2.3	Determining clearance using required withstand voltage:	(See appended table 5.4.2.3)	Р
	a) a.c. mains transient voltage:	2.5kV	_
	b) d.c. mains transient voltage:	TEST	
HUP	c) external circuit transient voltage:	NA HUR	
	d) transient voltage determined by measurement		_
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:	UAX TES. HUAX TES	N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	Р
5.4.3.1	General		Р
5.4.3.3	Material Group:	IIIb SOG	_
5.4.4	Solid insulation	TESTIN	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	1	Р
5.4.4.4	Solid insulation in semiconductor devices		Р
5.4.4.5	Cemented joints	3G	Р
5.4.4.6	Thin sheet material	TESTING.	Р
5.4.4.6.1	General requirements	JALII. JAI	Р
5.4.4.6.2	Separable thin sheet material	7.	Р

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	XTES	EN IEC 62368-	1 X TES	NXTES	, ,
Clause	Requirement	HOLE HI	Remark	HOLO	Result

	Number of layers (pcs):	Three layers of insulation tape used as reinforced insulation, any combination of two layers pass the electric strength test.	INGP
5.4.4.6.3	Non-separable thin sheet material	JAL JAN	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	CTING	(MGP
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	No HOLD	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
	Insulation resistance (M Ω):	TING	_
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		N/A
5.4.8	Humidity conditioning		Р
	Relative humidity (%):	93	_
. 6	Temperature (°C)	28	_
40.	Temperature (°C)	48	_
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		Р
5.4.9.2	Test procedure for routine tests	CTING	N/A
5.4.10	Protection against transient voltages between external circuit	JAX TES	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	:NG	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	TING	N/A
5.4.11.2	Requirements	ITES!	N/A
HUP	Rated operating voltage U _{op} (V)	JAN HUAR	_
	Nominal voltage U _{peak} (V):		_

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EN IEC 62368-1 Clause Requirement Remark Result Max increase due to variation U_{sp}: Max increase due to ageing ΔU_{sa}: $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$: 5.5 Components as safeguards 5.5.1 General Ρ 5.5.2 Capacitors and RC units N/A N/A 5.5.2.1 General requirement 5.5.2.2 Safeguards against capacitor discharge after (See appended table 5.5.2.2) N/A disconnection of a connector.....: 5.5.3 **Transformers** Ρ 5.5.4 Optocouplers (See sub-clause 5.4 or Annex G.12) Ρ 5.5.5 Relays (See Annex G.2) N/A 5.5.6 N/A Resistors (See Annex G.10) 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 N/A earth 5.5.8 Insulation between the mains and external circuit (See Annex G.10.3) N/A consisting of a coaxial cable....: 5.6 Protective conductor N/A 5.6.2 N/A Requirement for protective conductors 5.6.2.1 General requirements N/A 5.6.2.2 Colour of insulation N/A 5.6.3 Requirement for protective earthing conductors N/A Protective earthing conductor size (mm²): 5.6.4 Requirement for protective bonding conductors N/A 5.6.4.1 N/A Protective bonding conductors Protective bonding conductor size (mm²).....: Protective current rating (A): 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 N/A Requirement Conductor size (mm²), nominal thread diameter N/A (mm).....: 5.6.5.2 Corrosion N/A 5.6.6 N/A Resistance of the protective system N/A 5.6.6.1 Requirements

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5.7.6.1

5.7.6.2

5.7.7

Touch current from coaxial cables

external circuits

circuits

Prospective touch voltage and touch current from

Measured current (mA).....

referenced to earth. Measured current (mA).....:

Summation of touch currents from external

a) Equipment with earthed external circuits

b) Equipment whose external circuits are not

			1110
	EN IEC 62368	-1 XTES	
Clause	Requirement	Remark	Result
5.6.6.2	Test Method Resistance (Ω):		N/A
5.6.7	Reliable earthing	.\G	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	Figure 4 of IEC 60990 was used in determining of the limit of ES1.	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		N/A
5.7.3	Equipment set-up, supply connections and earth connections	TESTING	N/A
HUP	System of interconnected equipment (separate connections/single connection):	UPL	_
	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	Y TES Y TES	N/A
HUP	Supply Voltage (V):	Der HOEL	_
	Measured current (mA)		_
	Instructional Safeguard:	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	TESTING	N/A
	. 17		

6	ELECTRICALLY- CAUSED FIRE		, soP
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
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.	Р
6.2.2.1	General	CTING	UMGP
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)	Р

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N/A

N/A

N/A

N/A

N/A



- 1/)//		1/1/2	
Clause	Requirement	Remark	Result
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)	Р
6.2.3	Classification of potential ignition sources	TAUL TAL	Р
6.2.3.1	Arcing PIS:	(See appended table 6.2.3.1)	Р
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	ωP
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)	Р
6.3.1 (b)	Combustible materials outside fire enclosure	No such materials used.	N/A
6.4	Safeguards against fire under single fault conditions	· · · · · · · · · · · · · · · · · · ·	Р
6.4.1	Safeguard Method	Approved fire enclosure used	NGP
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	NX TESTING	Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	, HO.	Р
6.4.3.1	General		Р
6.4.3.2	Supplementary Safeguards	By equipped plastic fire enclosure.	, NGP
.,,P	Special conditions if conductors on printed boards are opened or peeled	No such case happened.	N/A
6.4.3.3	Single Fault Conditions:	(See appended table 6.4.3)	Р
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits	STING	N/A
6.4.5.2	Supplementary safeguards:	Tax Tax	N/A
6.4.6	Control of fire spread in PS3 circuit	1401	Р
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	CINO C	N/A
6.4.7.3	Separation by a fire barrier	IXTE IXTE	N/A
6.4.8	Fire enclosures and fire barriers	A)W	Р
6.4.8.1	Fire enclosure and fire barrier material properties		Р
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	TING	(MGP
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	JAX TES!	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening	N/A

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Clause	Requirement	HOLO	Remark	HOPE	Result

6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No opening	N/A
. 10	Needle Flame test	IN TEN	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	3.	N/A
	Flammability tests for the bottom of a fire enclosure:		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	XTESTING	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 enclosure used	Р
6.5	Internal and external wiring		N/A
6.5.1	Requirements	NG.	N/A
6.5.2	Cross-sectional area (mm²):	TESTING	_
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	(See Annex Q.)	Р
	External port limited to PS2 or complies with Clause Q.1	NG	P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N/A
7.3	Ozone exposure	C	N/A
7.4	Use of personal safeguards (PPE)	STING	N/A
- 1	Personal safeguards and instructions	tal.	_
7.5	Use of instructional safeguards and instructions	. No.	N/A
	Instructional safeguard (ISO 7010)		_
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	Р
8.3	Safeguards against mechanical energy sources	GTING	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.	Р

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Clause	Requirement	Remark	Result
Clause	Requirement	Kemark	Result
8.4.1	Safeguards		Р
8.5	Safeguards against moving parts	MS1 moving parts used	. JGP
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	LOX TESTING	N/A
8.5.2	Instructional Safeguard	P	_
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment	ING	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	UAX TES !!	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		N/A
	Instructional Safeguard:	,Ca	_
8.5.4.2.3	Disconnection from the supply	ESTING	N/A
8.5.4.2.4	Probe type and force (N)	tali,	N/A
8.5.5	High Pressure Lamps	100	N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability	ESTINE	N/A
8.6.1	Product classification	LAL YAL	N/A
7	Instructional Safeguard:	7	_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	, Ca	N/A
	Applied Force	ESTINE	_
8.6.2.3	Downward Force Test	LAU. YAU	N/A
8.6.3	Relocation stability test	, , , , , , , , , , , , , , , , , , ,	N/A
	Unit configuration during 10° tilt		_
8.6.4	Glass slide test	NG.	N/A
8.6.5	Horizontal force test (Applied Force)	TESTING	N/A
الد	Position of feet or movable parts	LAUL TAU	_
8.7	Equipment mounted to wall or ceiling	47-	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force	GTING	N/A
8.8	Handles strength	OXTES OXTES	N/A
8.8.1	Classification	Dr. HOW.	N/A
8.8.2	Applied Force		N/A

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Clause	Requirement	Remark	HOM	Result
8.9	Wheels or casters attachment requirements			N/A
8.9.1	Classification	.1G		N/A
8.9.2	Applied force:	TESTING	TES.	_
8.10	Carts, stands and similar carriers	DAY	XAUL	N/A
8.10.1	General			N/A
8.10.2	Marking and instructions			N/A
	Instructional Safeguard	NG		_
8.10.3	Cart, stand or carrier loading test and compliance	TESTIN	TES.	N/A
4VP	Applied force	UPJ .	KAUK	_
8.10.4	Cart, stand or carrier impact test			N/A
8.10.5	Mechanical stability			N/A
	Applied horizontal force (N)	a)G		_
8.10.6	Thermoplastic temperature stability (°C)	TESTINA	TES	N/A
8.11	Mounting means for rack mounted equipment	SPY	YAUL	N/A
8.11.1	General			N/A
8.11.2	Product Classification			N/A
8.11.3	Mechanical strength test, variable N:	NG		N/A
8.11.4	Mechanical strength test 250N, including end stops	TESTING	7ES	N/A
8.12	Telescoping or rod antennas	(See Annex T)	XAUL	N/A
,	Button/Ball diameter (mm)			_
9	THERMAL BURN INJURY			P
		1		

9	THERMAL BURN INJURY	P
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:	N/A
	TING TING	TING

10	RADIATION		N/A
10.2	Radiation energy source classification	JAN HUAN	N/A
10.2.1	General classification		N/A
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:	, NG	_
	Normal, abnormal, single-fault:	(See attached laser test report)	N/A
HUP	Instructional safeguard:	JAY HUAT	_
	Tool		_

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		IEC 62368-1	EN		
Result	HOM	Remark	HOM	Requirement	Clause
	HOPA	Remark	HOPA	Requirement	Clause

Clause	Requirement	Remark	Result
10.4	Protection against visible, infrared, and UV radiation		N/A
10.4.1	General	ETING	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	LAY TEN	N/A
10.4.1.b)	RS3 accessible to a skilled person:	HOM.	N/A
	Personal safeguard (PPE) instructional safeguard:		_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	. NG	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:	JAX HUAX	N/A
10.4.1.f)	UV attenuation:		N/A
10.4.1.g)	Materials resistant to degradation UV:		N/A
10.4.1.h)	Enclosure containment of optical radiation:	STING	N/A
10.4.1.i)	Exempt Group under normal operating conditions	HUAX TE	N/A
10.4.2	Instructional safeguard:		N/A
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
	Normal, abnormal, single fault conditions	TEST	N/A
HUP	Equipment safeguards	JAN HUAN	N/A
	Instructional safeguard for skilled person:		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:		_
	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A
. 10	Maximum radiation (pA/kg)	ta. ta	N/A
10.6	Protection against acoustic energy sources	3, 40,	N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output, dB(A)	STING	N/A
. 0	Output voltage, unweighted r.m.s	IN TER	N/A
10.6.4	Protection of persons	An.	N/A
	Instructional safeguards:		N/A
	Equipment safeguard prevent ordinary person to RS2:	NG	_
	Means to actively inform user of increase sound pressure:	INTEST	_
Ho	Equipment safeguard prevent ordinary person to RS2	Ho	_







	EN IEC 62368	3-1	NXTES	
Clause	Requirement	Remark	HOM	Result
10.6.5	Requirements for listening devices (headphones earphones, etc.)	,		N/A
10.6.5.1	Corded passive listening devices with analog input	, TESTING	, TES	N/A
HUP	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	N/VPT	HURY	_
10.6.5.2	Corded listening devices with digital input			N/A
	Maximum dB(A)	, Ca		_
10.6.5.3	Cordless listening device	ESTINE	_ <s< td=""><td>N/A</td></s<>	N/A
. 10	Maximum dB(A):	Lat.	ta.	_

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.2	Normal Operating Conditions	. NG	, NGP
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
Ho	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	N/A
B.2.3	Supply voltage and tolerances	±10%	Р
B.2.5	Input test	(See appended table B.2.5)	TINGP
B.3	Simulated abnormal operating conditions	TEST	Р
B.3.1	General requirements	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings		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	No.	Р
B.3.6	Reverse battery polarity	No battery within the EUT	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	NG.	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	Р
B.4	Simulated single fault conditions 错误! 未指定书签		Р
B.4.2	Temperature controlling device open or short-circuited	(See appended table B.4)	N/A
B.4.3	Motor tests	, NG	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	1	Р

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Clause	Requirement	Remark	Result
	•		I
B.4.4.1	Short circuit of clearances for functional insulation		Р
B.4.4.2	Short circuit of creepage distances for functional insulation	STING	TINGP
B.4.4.3	Short circuit of functional insulation on coated printed boards	UPX TE	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		Р
B.4.6	Short circuit or disconnect of passive components	.0	Р
B.4.7	Continuous operation of components	ESTINE	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	UPX HUPX	Р
B.4.9	Battery charging under single fault conditions:	No battery involved in the EUT	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	TESTING	N/A
C.1.2	Requirements	LAUL TAI	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples	ESTINE	N/A
C.2.3	Carbon-arc light-exposure apparatus	LAY WAY	N/A
C.2.4	Xenon-arc light exposure apparatus	F1-	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator	STING	N/A
D.3	Electronic pulse generator	IX IX	N/A
Ho	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions		N/A
	Audio signal voltage (V)		
	Rated load impedance (Ω):	GTING	UNG
E.2	Audio amplifier abnormal operating conditions	at TE	N/A
F HO!	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
\	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.	TING
F.2	Letter symbols and graphical symbols		Р

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Remark



Clause

Requirement

marking

F.3.7

F.3.8

- 0.4	I		
F.2.1	Letter symbols according to IEC60027-1		Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	STING	TIMGP
F.3	Equipment markings	LAX TEC	Р
F.3.1	Equipment marking locations	On the product	Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification	See marking	_
F.3.2.2	Model identification	See marking	UMO_
F.3.3	Equipment rating markings	LOX TES	Р
F.3.3.1	Equipment with direct connection to mains	Considered	Р
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage	See marking	_
F.3.3.4	Rated voltage:	See marking	UMG_
F.3.3.4	Rated frequency:	See marking	_
F.3.3.6	Rated current or rated power	Dr. HOW	_
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices	CTING CO	(ING
F.3.5.1	Mains appliance outlet and socket-outlet markings:	JAX TES	N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings		Р
F.3.5.4	Replacement battery identification marking:	GTING	N/A
F.3.5.5	Terminal marking location	LAX TE	N/A
F.3.6	Equipment markings related to equipment classification	3.	N/A
F.3.6.1	Class I Equipment		Р
F.3.6.1.1	Protective earthing conductor terminal	TING	MGP.
F.3.6.1.2	Neutral conductor terminal	TEST	Р
F.3.6.1.3	Protective bonding conductor terminals	JAN HUAN	N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal	NG.	N/A

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Result

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IPX0

Marked on the label

Equipment IP rating marking:

External power supply output marking



Clause	Requirement	Remark	Result
Clause	requirement	Remark	Result
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the	Р
	NG NG	enclosure and it was legible, permanent and easily discernible.	
F.3.10	Test for permanence of markings	Complied	Р
F.4 🐠	Instructions	JAZ HUAZ	Р
	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.	Р
, NP	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	^{LIM} GP
Ho.	c) Equipment intended to be fastened in place	See above.	Р
	d) Equipment intended for use only in restricted access area	The EUT is not such type equipment	N/A
4/1/	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
Y.C.	f) Protective earthing employed as safeguard	H-1	Р
	g) Protective earthing conductor current exceeding ES 2 limits		N/A
	h) Symbols used on equipment	Complied	MCP
NUL	i) Permanently connected equipment not provided with all-pole mains switch	The EUT is not a permanently connected equipment	N/A
)	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
	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		Р
G.1	Switches		N/A
G.1.1	General requirements	TING	N/A
G.1.2	Ratings, endurance, spacing, maximum load	XTED, XTED	N/A
G.2 (1)	Relays	UK HUR	N/A
G.2.1	General requirements		N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	TING	N/A
G.2.4	Mains relay, modified as stated in G.2	ITES!	N/A
G.3	Protection Devices	JAN HUAN	Р
G.3.1	Thermal cut-offs		N/A

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Clause	Requirement	Remark	Result
Clause	Requirement	Remark	Resurt
G.3.1-2A) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	Y TESTING	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	JAN HUAN	N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	.6	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	ESTING	N/A
,, \P	Aging hours (H):	XAL XAL	_
Ho	Single Fault Condition:	X0.	_
	Test Voltage (V) and Insulation Resistance (Ω):		
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N/A
G.3.4	Overcurrent protection devices	XTES XTES	N/A
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		N/A
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A
G.4	Connectors	TESTINA	N/A
G.4.1	Spacings	TAU. TAU	N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound Components	CING	(MGb
G.5.1	Wire insulation in wound components	OX TES	Р
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	AOL.	Р
G.5.1.2 b)	Construction subject to routine testing		Р
G.5.2	Endurance test on wound components	.NG	N/A
G.5.2.1	General test requirements	TESTIN	N/A
G.5.2.2	Heat run test	TAUL TAU	N/A
	Time (s):		
	Temperature (°C)		_
G.5.2.3	Wound Components supplied by mains	NG	N/A
G.5.3	Transformers	TESTINE LES	Р
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or EN IEC 62368-1)	JAX HUAX	Р
	Position:		_

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	EN IEC 62368	-1 X TES	
Clause	Requirement	Remark	Result
	Method of protection:		
G.5.3.2	Insulation		. oP
G.S.S.Z	Protection from displacement of windings:	CTING	THO
0.5.0.0	1	N TES	_
G.5.3.3	Overload test:	Dr. Will	P
G.5.3.3.1	Test conditions	Will not cause safety protection to fail	P
G.5.3.3.2	Winding Temperatures testing in the unit		N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	CTING	N/A
G.5.4	Motors	IN TES	N/A
G.5.4.1	General requirements	Dry HOW	N/A
	Position:		_
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test	TING	N/A
G.5.4.4	Locked-rotor overload test	XTES	N/A
HUP	Test duration (days):	DAY HUAR	_
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A
G.5.4.5.2	Tested in the unit	~\G	N/A
	Electric strength test (V):	TESTING	1/1/2
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	URX HURX	N/A
	Electric strength test (V):		_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	- ING	N/A
G.5.4.6.2	Tested in the unit	, TEST	N/A
HUH	Maximum Temperature	DPS HUPS	N/A
	Electric strength test (V):		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A
	Electric strength test (V):	STING	N/A
G.5.4.7	Motors with capacitors	XXII XXII	N/A
G.5.4.8	Three-phase motors	10,	N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation	GTING	N/A
G.6.1	General	LOX TES	N/A
G.6.2	Solvent-based enamel wiring insulation	An Holy	N/A
G.7	Mains supply cords	1	N/A

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EN IEC 62368-1 Clause Requirement Remark Result G.7.1 General requirements N/A Type.....: Rated current (A)....: Cross-sectional area (mm²), (AWG).....: G.7.2 Compliance and test method N/A G.7.3 Cord anchorages and strain relief for non-N/A detachable power supply cords G.7.3.2 Cord strain relief N/A G.7.3.2.1 N/A Requirements Strain relief test force (N)..... 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 N/A G.7.4 Cord Entry....:: (See appended table 5.4.11.1) N/A G.7.5 Non-detachable cord bend protection N/A G.7.5.1 N/A Requirements G.7.5.2 Mass (g): Diameter (m).....: Temperature (°C).....: G.7.6 Supply wiring space N/A G.7.6.2 N/A Stranded wire G.7.6.2.1 Test with 8 mm strand N/A **G.8 Varistors** N/A G.8.1 N/A General requirements G.8.2 Safeguard against shock N/A G.8.3 Safeguard against fire 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. N/A G.9.1 b) Limiters do not have manual operator or reset N/A G.9.1 c) Supply source does not exceed 250 VA: 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

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	EN IEC 62368	1, TES	YTES
Clause	Requirement	Remark	Result
G.9.4	Test Program 3		N/A
G.10	Resistors	0	N/A
G.10.1	General requirements	STING	N/A
G.10.2	Resistor test	IN THE	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	0, 70	N/A
G.10.3.1	General requirements	ING	N/A
G.10.3.2	Voltage surge test	TESTI	N/A
G.10.3.3	Impulse test	UPY	N/A
G.11	Capacitor and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	, NG	N/A
G.11.3	Rules for selecting capacitors	TESTIN	N/A
G.12	Optocouplers	UPY	N/A
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):		N/A
	Type test voltage Vini:	ING	-1MG
	Routine test voltage, Vini,b:	TEST	TES .
G.13	Printed boards	UPY	Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		N/A
G.13.3	Coated printed boards	, NG	N/A
G.13.4	Insulation between conductors on the same inner surface	IRX TESTIN	N/A
No.	Compliance with cemented joint requirements (Specify construction)	7,0	_
G.13.5	Insulation between conductors on different surfaces	G	N/A
	Distance through insulation	(See appended table 5.4.4.5	5) N/A
JUL	Number of insulation layers (pcs):	الد مر	7, 7
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning	-10	N/A
G.13.6.2b)	Electric strength test	ESTING	N/A
G.13.6.2c)	Abrasion resistance test	In. tal	N/A
G.14	Coating on components terminals	, You	N/A

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	1		

1111	EN IEC 62368	11/20	11/20	
Clause	Requirement	Remark	Ho.	Result
G.14.1	Requirements:	(See G.13)		N/A
G.15	Liquid filled components	~\G		N/A
G.15.1	General requirements	TESTING	7ES	N/A
G.15.2	Requirements	WAY,	TAUL	N/A
G.15.3	Compliance and test methods		4	N/A
G.15.3.1	Hydrostatic pressure test			N/A
G.15.3.2	Creep resistance test	, Ca		N/A
G.15.3.3	Tubing and fittings compatibility test	ESTINO	_ES	N/A
G.15.3.4	Vibration test	MAT	XALI	N/A
G.15.3.5	Thermal cycling test		710	N/A
G.15.3.6	Force test			N/A
G.15.4	Compliance			N/A
G.16	IC including capacitor discharge function (IC)	STING	,c	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	HURYTE	HUAXTE	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	STING	- C	N/A
C2)	Test voltage	NX TES	, DX TEO	_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	70,	Ho	N/A
D2)	Capacitance			_
D3)	Resistance:	STING	,c	LING
HP	CRITERIA FOR TELEPHONE RINGING SIGNAL	SX	WAX TE	N/A
H.1	General	,	Ho,	N/A
H.2	Method A			N/A
H.3	Method B			N/A
H.3.1	Ringing signal	GTING		N/A
H.3.1.1	Frequency (Hz):	. LAX TES	. IN TE	
H.3.1.2	Voltage (V)	77	HOL	
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:	96.	- C	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	NATES	HUAXTES	N/A
H.3.2.2	Tripping device			N/A

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XTEST	EN IEC 62368-1	XTESI	XTES	, , , , , , , , , , , , , , , , , , , ,
Clause Requirement	HOM	Remark	HOM	Result

H.3.2.3	Monitoring voltage (V)		
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	, NGP
	General requirements	(See separate test report)	Р
K YUP	SAFETY INTERLOCKS	VAX.	N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode	GTING	N/A
K.4	Interlock safeguard override	OX TES	N/A
K.5	Fail-safe	A),	N/A
	Compliance:	(See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement	CTING	N/A
K.6.2	Compliance and Test method:	XTES XTES	N/A
K.7	Interlock circuit isolation	DAY HOPE	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)	NG	N/A
K.7.3	Endurance test	TESTING TES	N/A
K.7.4	Electric strength test	(See appended table 5.4.11)	N/A
L	DISCONNECT DEVICES	7	Р
L.1	General requirements		Р
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized	ESTING	N/A
L.4	Single phase equipment	TAI TAI	Р
L.5	Three-phase equipment	140	N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		Р
L.8	Multiple power sources	STING	N/A
M	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	No such battery used.	N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method):	GTING	N/A
M.3	Protection circuits	NYTES INTES	N/A
M.3.1	Requirements	Dr. HOW	N/A
M.3.2	Tests		N/A

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EN IEC 62368-1 Clause Requirement Remark Result

Clause	Requirement	Remark	Result
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery	STING	N/A
. 10	- Reverse charging of a rechargeable battery	LAY TEC	N/A
Ho.	- Excessive discharging rate for any battery	10.	N/A
M.3.3	Compliance:	(See appended Tables and Annex M and M.4)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery	ESTING	N/A
M.4.1	General	LAY WAY	N/A
M.4.2	Charging safeguards	1	N/A
M.4.2.1	Charging operating limits		N/A
VI.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	.0
M.4.2.2 b)	Single faults in charging circuitry:	(See Annex B.4)	UNG.
M.4.3	Fire Enclosure	JAX TE	N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	AO.	N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests	TING	N/A
	Drop	TES	N/A
HUP	Charge	NA HUA	N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test	-MC	N/A
M.5	Risk of burn due to short circuit during carrying	TES	N/A
M.5.1	Requirement	WAY HUAY	N/A
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	·C	N/A
M.6.1	Short circuits	STING	N/A
M.6.1.1	General requirements	LAX TE	N/A
M.6.1.2	Test method to simulate an internal fault	HO.	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA):	TING	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	WAXTES!"	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	ı	-1	

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Clause	Requirement	Remark	Result
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	STING	N/A
M.8.1	General requirements	LOX TEC	N/A
M.8.2	Test method	D, HO,	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:	GTING	UMG_
M.8.2.4	Calculation of distance d (mm):	NATES OF THE	_
M.9	Preventing electrolyte spillage	Dr. HOL	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)	IN TESTING	N/A
N Plot	ELECTROCHEMICAL POTENTIALS	40.	N/A
	Metal(s) used:	Pollution degree considered	_
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	Р
	Figures O.1 to O.20 of this Annex applied	STING	UNG-
P HUP	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements	No opennigs	N/A
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm):	TING	UNG-
P.2.3	Safeguard against the consequences of entry of foreign object	URX TEST	N/A
P.2.3.1	Safeguards against the entry of a foreign object	1	N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:	CTING	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):	JAXTES HUAXTE	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	STING	N/A
P.3.3	Spillage safeguards	INTE	N/A
P.3.4	Safeguards effectiveness	, HO,	N/A
P.4	Metallized coatings and adhesive securing parts		N/A

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	EN IEC 62368-	1, TES 1, TE	5//
Clause	Requirement	Remark	Result
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):	Ç.	
	Tr (°C):	STAG	STING
P	Ta (°C):	INTER WAY	_
P.4.2 b)	Abrasion testing	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	,	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION		CP
Q.1	Limited power sources	WITH BOILDING WIKING	C TIME
Q.1.1 a)	Inherently limited output	(A) (E)	N/A
Q.1.1 b)	Impedance limited output	701	P
Q.1.1 b)	- Regulating network limited output under normal operating and simulated single fault condition		Р
Q.1.1 c)	Overcurrent protective device limited output	TING	N/A
Q.1.1 d)	IC current limiter complying with G.9	Y TES!	N/A
Q.1.2	Compliance and test method	JAC HUAR	N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		
	Current limiting method	TNG	TING
R	LIMITED SHORT CIRCUIT TEST	Y TES!	N/A
R.1 +\(\)	General requirements	DAY HUAY	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)):	GTING	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	TX.	Р
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	HOL	N/A
	Samples, material:	V-0 enclosure used	
AUN	Wall thickness (mm):	STING	GIING_
	Conditioning (°C)	TXALL TAN	_
	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	TING	N/A
	- No burning of layer or wrapping tissue	XTES!	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	V-0 enclosure used	Р

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T.9.2

Impact test and compliance

	EN IEC 62368-	- CD - CD -	
Clause	Requirement	Remark	Result
	Samples, material:		_
	Wall thickness (mm)	.10	(3
	Conditioning (°C):	TESTING	11/10
HUP	Test flame according to IEC 60695-11-5 with conditions as set out	JAX HURX	N/A
	Test specimen does not show any additional hole		N/A
5.3	Flammability test for the bottom of a fire enclosure	TING	P
	Samples, material	TES TES	_
HU	Wall thickness (mm):	JAN HUAN	
	Cheesecloth did not ignite		N/A
5.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	NX TESTING	N/A
HO	Samples, material:	Dr. Hors	_
	Wall thickness (mm)		_
	Conditioning (test condition), (°C)		
	Test flame according to IEC 60695-11-20 with conditions as set out	TESTING	N/A
HU	After every test specimen was not consumed completely	JAX HUAX	N/A
	After fifth flame application, flame extinguished within 1 min		N/A
Γ	MECHANICAL STRENGTH TESTS	TING	TINGP
Γ.1	General requirements	XTES XTE	Р
Г.2	Steady force test, 10 N:	(See appended table T.2)	Р
Γ.3	Steady force test, 30 N:	(See appended table T3)	Р
Γ.4	Steady force test, 100 N:	(See appended table T4)	Р
Γ.5	Steady force test, 250 N:	(See appended table T5)	N/A
Γ.6	Enclosure impact test	(See appended table T6)	N/A
HU	Fall test	DAY. HUAY	N/A
	Swing test		N/A
Г.7	Drop test:	(See appended table T7)	Р
Γ.8	Stress relief test	(See appended table T8)	TINGP
Г.9	Impact Test (glass)	XTES XTE	N/A
T.9.1	General requirements	Der. HOBY	N/A

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N/A



EN IEC 62368-1				
Clause	Requirement	Remark	Result	
	Impact energy (J):		_	
	Height (m):	Suc	uNG-	
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A	
T.11 ~\\\	Test for telescoping or rod antennas	UPY HUPY	N/A	
	Torque value (Nm):		<u> </u>	
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		N/A	
U.1	General requirements	ESTING	N/A	
U.2	Compliance and test method for non-intrinsically protected CRTs	UPX HUPX	N/A	
U.3	Protective Screen	(See Annex T)	N/A	
V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		N/A	
V.1	Accessible parts of equipment	TING	N/A	
V.2	Accessible part criterion	, TES , TES	N/A	

4.8.4, 4.8.5				N/A	
(The follow	ving mechanical test	s are conducted in the seque	nce noted.)	<u> </u>	
4.8.4.2	.4.2 TABLE: Stress Relief test			_	
ı	Part	Material	Oven Temperature (°C)	Comments	
	ESTIN	ESTIN	TESTINA	ESTIN	
4.8.4.3	TABLE: Battery	replacement test	AUL XAUL	_	
Battery pa	art no	:		_	
Battery Ins	stallation/withdrawa	al	Battery Installation/Removal Cycle	Comments	
HUAX TESTING HUAX TESTING		1,6			
		5 2	TESTING		
		3 XAW			
			4		
			5		
			6	. Ca	
			8	STING	
			9	10	
			10		

May Co., />

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	~71,	~~///	~7//	6711
		EN IEC	62368-1	NYTES
Clause	Requirement	HOLO	Remark	Result
4.8.4, 4.8.5	TABLE: Lit	thium coin/button cell batteri	es mechanical tests	N/A
(The following	ng mechanica	tests are conducted in the sequ	uence noted.)	
4.8.4.4 TABLE: Drop test		,,,AXTES	UR -	
Impact Area		Drop Distance	Drop No.	Observations
			1	
	ING	SING	20	NG
4.8.4.5	TABLE: Imp	pact	V TEST	_
Impacts p	er surface	Surface tested	Impact energy (Nm)	Comments
4.8.4.6	TABLE: Cru	ush test		_
Test p	Test position Sur		Crushing Force (N)	Duration force applied (s)
ALL	*	XALL	TALL	UR
Supplement	ary informatio	n:	4.2	1-

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. ... IX TES



	XTEST	EN IEC	62368-1	XTES	711
Clause	Requirement	HORA	Remark	HOR	Result

4.8.5	TABLE: Lithiu	um coin/button cell batteries	mechanical test result	N/A
Test position		Surface tested	Force (N)	Duration force applied (s)
		V.	V.	\ .
Suppleme	entary information:	O	O), s	G

5.2.2.2 – No.			urrent conditions			<u>'</u>	
No.	Supply						
No.	Supply	Location (e.g.		Parameters			
	o. Supply Voltage		Test conditions	U	I	1.1-	ES Class
		designation)		(Vrms or Vpk)	(Apk or Arms)	Hz	
1	110-240V	Primary	Normal				
	STIN	ciurcuit	Abnormal		1NG		ES3
MAXTES			Single fault – SC/OC	4UAX TES	~	AX TES	
2	110-240V	L/N to plastic	Normal	4.96			
		enclosure	Abnormal	5.20			ES1
		4G	Single fault – SC/OC	0	MG -	-61	MG
	WAXTE	"	AX TE	WAXTE	"	AX TE	

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	TEST	EN IEC 6236	8-1	, TES) / / ·
Clause	Requirement	HUAX,	Remark	HUAX	Result

5.2.2.3	- Capacitano	e Limits					
	Supply	Location (e.g.		Par	rameters		
No.	Voltage	circuit designation)	Test conditions	Capacitance, nF		Upk (V)	ES Class
	-		Normal	"		71	
			Abnormal				
	-6	1/MG	Single fault – SC/OC	 -STI	,√G	-5	ING
5.2.2.4	- Single Puls	ses					
	Supply	Location (e.g.		Parameters			o
No.	Voltage	circuit	Test conditions	Duration (ms)	Ink (\/)	Ink (mA)	ES Class

	Supply	Location (e.g.			Parameters		o
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
		<u>.</u> G	Normal				<u>.</u> G
	TEST!	la company of the com	Abnormal		STINE	- 455	/Mc
_	NAX	H	Single fault – SC/OC	- HUAX		-HUAX	

5.2.2.5 - Repetitive Pulses

	Supply	Location (e.g.				ES Class	
No. Voltage		circuit designation)	Test conditions	Off time (ms)	Upk (V)		lpk (mA)
	- JAX TE		Normal	- 12	_	- 1121	
	Ho.	4	Abnormal	- 40.		- 40.	
			Single fault – SC/OC				

Test Conditions:

Normal -

Abnormal -

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

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	-25/11		5711		711,
		TEN	N IEC 62368-1		
Clause	Requirement	HOL	Remark	HOFE	Result

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperatu	re measurer	nents	\$, r.S	TING		TEST!	MG P
· JAU.	Supply voltage (V)	1	:	10	0V/50H	Z	110-2	40V/60Hz	- tal	_
4.5	Ambient T _{min} (°C)		:	24.2	2 2	25	25.3	24.8		
	Ambient T _{max} (°C)			24.2	2 2	25	25.2	24.7		
Maximum meas	sured temperature T of	part/at:					T (°C	;)		Allowe d T _{max} (°C)
power cable	UV	P.Y.		41.2	2 54	1.1	29.9	54.2	SIRT	80
Outside of the n	netal shell			65	48	3.3	32.3	48.3		80
Inside the meta	shell			54.2	2 4	1.2	41.2	41.8		Ref.
CE1 capacitor	CE1 capacitor			41.2	2 6	55	65	65.2		80
Enter NTC1				65	54	1.75	54.2	54.1	-551	120
Output Z1			54.2	2 4	1.2	41.2	41.2	1st	120	
Output Z2	Ho	-		75.1	65	5.1	65	65		120
РСВ				54.2	2 4	1.3	54.2	54.7		130
Transformer ske	eleton			75.9	65	5.2	54.2	75.1		120
Transformer coi	CING	TIN	3	54.8	3 54	1.2	41.2	56.9		120
CE5 capacitor	EST	XTES		48.3	3 75	5.1	65	58.8	XTES	80
CE3 capacitor	HU	P.		41.2	65	5.1	41.2	71.1	21~	80
CE2 capacitor				65	54	1.1	65	65.3		80
U1				54.2	2 54	1.2	54.2	29.7		80
U2	ING	JAI.	3	32.3	3 48	3.1	48.3	32.3	_1	6 80
U3	ESIN	TEST		34.2	2 43	1.25	41.2	34.2	TES	80
Supplementary	information:	D.			MIN			- 1	M.	
Temperature T	of winding:	t ₁ (°C)	R ₁ ((Ω)	t ₂ (°C)	R	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulatio n class
Supplementary	information: N/A	- 10	3				NG.			(G

5.4.1.10.2	5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Penetration	(mm)				_	
Object/ Part No./Material			Manufacturer/t T softening (
	TES	TESI	TES	TES		
supplement	ary information:	HUAN	HUAN	HUAN		

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NYTES	EN IEC 62368-	1 X TES	NXTES	, ,
Clause Requirement	HOM	Remark	HOLO	Result

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter (mm):			≤ 2 mm				
Object/Part No./Material Manufacturer/trademark		Test temperature (°C) Impression dia		meter (mm)			
Transforme	r bobbin	See tabel 4.1.2	125	1.0			
Plastic encl	osure	See tabel 4.1.2	125	1.3			
Supplement	Supplementary information:						

5.4.2.2, TABLE: Minimum CI 5.4.2.4 and	earance	s/Creepa	ge distance	TESTIN	9	TES	INP
5.4.3	MAX		الاي	N.		MAX	
Clearance (cl) and creepage distance (cr) 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)
Different polarity of L/N (before fuse)	340	240	<30	1.3	2.85	2.6	2.85
Different polarity of L/N to plastic enclosure	340	240	<30	3.0	>6.0	5.0	>6.0
Primary parts to secondary parts of transformer	340	240	<30	3.0	6.76	5.0	6.76
Trace between terminals CY1	340	240	<30	3.0	7.14	5.0	7.14
Supplementary information:		TING		TIN	3		CING
Note 1: Only for frequency above 3 Note 2: See table 5.4.2.4 if this is b		electric st	rength test				
Note 3: Provide Material Group							

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage					
	Overvoltage Catego	ory (OV):	GTING	-STANG		
	Pollution Degree:	LOX TES	LOX TES	IIIb		
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)		
L to N		2500V	1.5	>3.0		
Primary a	nd secondary wire	2500V	3.0	>4.5		
Suppleme	entary information:	TEST	TESTI	TEST		
LI.	SPY	WAX	URX	WAX		

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	TEST	EN IEC 6236	8-1	, TES) / / ·
Clause	Requirement	HUAX,	Remark	HUAX	Result

5.4.2.4	TABLE: Clearances based on electric strength test			
Test voltage applied between:		Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No
HU	AUR HUR		WAL	HURN
Supplemen	ntary information:			

HUP	7	HUAX	HL	AT.	HUAX	
5.4.4.2,	TABLE: Dis	tance through insulati	ion measureme	ents		Р
5.4.4.5 c) 5.4.4.9	, NG					. NG
Distance th insulation d		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Plastic e	enclosure	340	<30	See table 4.1.2	0.4	2.14
Insulat	ion tape	340	<30	See table 4.1.2	2layers	2 layers
Supplement	tary information	n:	1G	STING		GTING

5.4.9	TABLE: Electric strength tests			Р
Test voltage	voltage applied between: Voltage shape (AC, DC) Test voltage (V)		Breakdown Yes / No	
Functional:	TESI TESI	TE	3711	(ESTI
Between L	and N (Fusen F1 opened)	DC	2500	No
Basic/supp	lementary:	V .		
Reinforced	36	16	NG.	16
L&N to outp	out ST	DC	4000	S No
L&N to plas	stic enclosure (with metal foil)	DC	4000	No
Transforme	er primary and secondary	DC	4000	No
1 layer insu	lation tape of transformer	DC	4000	No
Routine Te	sts:			
		O _E	TNG	TING
Supplemen	tary information:	WAX TE	*XAUL	(EST

May Co., />

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~///	0,//,	~///		//,
NX TES.	EN IEC 6	2368-1		
Clause Requirement	HOM	Remark	HOM	Result

5.5.2.2	TABLE: St	ored discharç	ge on capacito	ors		N/A
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
		,	- JG			
X-capacitor	tary informat s installed fo g resistor rat	r testing are:	XTESTING	HUA	KTESTING	UAX TESTING
□ ICX:						
Notes:						
A. Test Loc	ation:					
Phase to N	eutral; Phase	to Phase; Ph	ase to Earth; a	nd/or Neutral	to Earth	
B. Operatir	ng condition a	abbreviations:				
N – Normal	operating co	ondition (e.g., i	normal operatio	on, or open fus	se); S –Single fault cond	dition

	100	-ING		NO	100
5.6.6.2	TABLE: Resistar	nce of protective conduct	tors and termina	tions	N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
Suppleme	entary information:	STING		TING	STING
H	JAXTE	HUAXTES	HUAXTE	H	JAY TEC

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. 0	XTEST	EN IEC 62368-	1 X TES	NYTES	, .
Clause	Requirement	HOM	Remark	HOM	Result

5.7.2.2, 5.7.4	TABLE: Earthed	accessible conductive pa	art TING	N/A
Supply vo	ltage		TESIT	_
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	Touch current (mA)
	, NG	i NG	Jus	iNG.
			2*	TESTI
			HUPT 3	
			4	
			5	
			6	JG
			ESTI 8	TESTING

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.

6.2.2	Tal	ble: Electrical	power sour	ces	(PS) measurements fo	or classification		Р
Source		Description	Measurement		Max Power after 3 s	Max Power after 5 s*)		
			Power (W)	:		4.96		
Output terminal		Normal	V _A (V)	:		4.96		PS1
torrinia			I _A (A)	:		1		
	· · · · · · · · · · · · · · · · · · ·		Power (W)	:				
All primary circuit			V _A (V)	:			PS3	(declared)
onoun			I _A (A)	:				

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	XTESI	Y TEEL	N IEC 62368-1	XTESI		
Cla	ause Requirement	HOM	Remark	HOM	Result	

6.2.3.1	Table: Determination	on of Potential Ign	ition Sources (Arc	ing PIS)	N/A
	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
	STING	STING	~3	STING	STING

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.

6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)									
Circuit Location (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				
All internal circuits/ components	JUPX TES	(3)	UPX TED.	JUPX TES	Yes				

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.

MP

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	TEST	EN IEC 6236	8-1	TEST		
Clause	Requirement	HUAX,	Remark	HUAX	Result	

8.5.5	TABLE: High Pressure Lamp			N/A
Description	n	Values	Energy Source Cl	assification
Lamp type)ST\\\	TESTIL	_	
Manufactu	ırer:	WAY ,	_	
Cat no		, , , , , , , , , , , , , , , , , , ,	_	
Pressure ((cold) (MPa):		MS_	
Pressure (operating) (MPa)	. G	MS_	16
Operating	time (minutes):	ESTINE	_	
Explosion	method:	XALL	_	
Max partic	ele length escaping enclosure (mm). :	V.	MS_	
Max partic	ele length beyond 1 m (mm):		MS_	
Overall res	sult:	·C		.0
Suppleme	ntary information:	XTESTING	Y TES	LING

B.2.5	TABLE: Inpu	ut test						Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status
264V/50Hz	0.065		6.86		TING		Max no	rmal load
264V/60Hz	0.065		6.86		TES.		Max no	rmal load
110- 240V/50Hz	0.067	HOW	6.89	- HUR		Y	Max no	rmal load
110- 240V/60Hz	0.067		6.89				Max normal load	
100V/50Hz	0.108	1	7.00		-TIME		Max no	rmal load
100V/60Hz	0.108	1	7.00		TES		Max no	rmal load
90V/50Hz	0.110	401	7.02	HON		4	Max no	rmal load
90V/60Hz	0.110		7.02				Max no	rmal load

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-59/11			5711			
		TEN	N IEC 62368-1			
Clause	Requirement	HOL	Remark	HOFE	Result	

B.3 TA	BLE: Abnorm	nal operating	condition t	ests					N/.	Ά
Ambient temper	ature (°C)	XAU _X			WAY.			MAX	_	_
Power source for EUT: Manufacturer, model/type, output rating: See page 2								_	_	
Component No	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)		T-couple	Temp. (°C)	Observa	ation
					-	-		1		

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.

B.4 T	ABLE: Abnorm	nal operating	condition t	ests					Р
Ambient temp	erature (°C)		CINC		:	25°C	if not ment	ioned	
Power source	for EUT: Manuf	acturer, model	/type, outpu	ıt rating	TAL T	See p	age 2	TX.	_
Component N	o. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		use nt, (A)	T-couple	Temp.	Observation
R1	S-C	110- 240V/60Hz	<1s	FR1					Fuse opend, no broken
C1	S-C	110- 240V/60Hz	<1s	FR1					Fuse opend, no broken
U1	S-C	110- 240V/60Hz	<1s	FR1					Fuse opend, no broken
C6	S-C	110- 240V/60Hz	<1s	FR1					Fuse opend, no broken
DB1	S-C	110- 240V/60Hz	<1s	FR1					Fuse opend, no broken
R5	S-C	110- 240V/60Hz	<1s	FR1					Output shutdown, no hazard, no broken
Transformer(n A to Pin B		110- 240V/60Hz	4 hours 15mins	FR1			Туре К	T1 winding : 115.5, T1 bobbin: 113.4	no hazard, no broken

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C///						
		EN IEC 6236	8-1			
Clause	Requirement	HOLO	Remark	HOM	Result	

		_							
Annex M	TABLE: Batte	eries							N/A
The tests of	Annex M are	applicable (only when app	propriate b	attery data	is not ava	ilable	-6	
Is it possible	to install the l	pattery in a	reverse polar	ity positior	1?	:		DX TE	
	Non-re	chargeable	e batteries		F	Rechargeal	ble batteri	es	
	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 norma condition		HI	AX TES!		HUAXTE	51	H	AX TES	
Max. current during fault condition	ı								
Test results:	KTE		NX TEC		TY XX.			NYTE	Verdict
- Chemical le	eaks	H),,		Hou		H)1-	
- Explosion o	of the battery								
- Emission o	f flame or exp	ulsion of m	olten metal						
- Electric stre	ength tests of	equipment	after completi	on of tests	3	TING		~ <	ING
Supplementa	ary information	1: H ¹	JAX TES.		HUAXTE	5,0	H	AX TES	

Annex M.4	Table: Add batteries	litional safe	eguards for equi	ipment con	taining seconda	ry lithium	N/A	
Batter	-	Test conditions			Measurements	3	Observation	
N	0.			U	I (A)	Temp (C)		
		Normal						
		Abnormal						
	TING	Single fau	t –SC/OC		TING		TING	
	TEST	Normal	TEST		TEST	7	(ES)	
HUP	J	Abnormal	URI	H	7 br	HURY		
		Single fau	lt – SC/OC					
Supplementa	ary Informati	on:				•		
	INC		ING		ING		ING	
Battery identificati		arging at T _{lowest} (°C)	Observat	tion	Charging at T _{highest} (°C)	Obs	ervation	

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Side enclosure

	XTEST	EN IEC	62368-1	XTES	711
Clause	Requirement	HORA	Remark	HOR	Result

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
X TE	0	XTES	TES	XTEST
Supplementary In	formation:	NAV	UNI	HUP

Annex Q.1	TABLE: Circuits inte	nded for interco	nnection with	building wirin	g (LPS)	P
Note: Mea	sured UOC (V) with all lo	ad circuits discon	nected:	TEST	17	EST
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (VA)
Circuit			Meas.	Limit	Meas.	Limit
Output	Normal	5.20	1.15	8	5.5	100
Output	C4 SC	0 ,56	0	8 6	0	100
Supplemer	ntary Information:	TESTIN		TESTIN	. 1	ESTI
SC=Short	circuit					

T.2, T.3, **TABLE: Steady force test** Ρ T.4, T.5 Part/Location Material **Thickness Test Duration** Observation Force (mm) (N) (sec) Top enclosure Plastic Min.1.5 100 5 No damaged

100

Bottom enclosure Plastic Min.1.5 100 5
Supplementary information:

Min.1.5

Plastic

T.6, T.9 T	ABLE: Impact tests	Ør.	HOL	HOL	N/A
Part/Location	n Material	Thickness (mm)	Vertical distance (mm)	Observation	
	TING	TING		TING	TING
. 1	TEST	TES	47	SI	5
Supplementary	/ information:	UN	HUAN	HUAV	

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No damaged

No damaged



	XTES	EN IEC 62368-	1 X TES	NYTES	, ,
Clause	Requirement	HOLO	Remark	HOPE	Result

Γ.7 TABL	E: Drop tests				Р
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Top enclosure	Plastic	Min.1.5	1000	No damaged	
Side enclosure	Plastic	Min.1.5	1000	No damaged	
Bottom enclosure	Plastic	Min.1.5	1000	No damaged	

	XTE	,	· NY TES	14.	120	10X TES
HUM		7	Nr.	HUM		HUM
. 8	TAB	LE: Stress relief t	est			
Part/Locati	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Complete sample		Plastic enclosure (for all sources)	Min.1.5	70	7	No damaged, the hazardous live particular cannot be touch
Supplementa	ary int	formation:				
HUA	XTE	STING	UAX TESTING	HUAX	<i>TESTING</i>	HUAXTESTING

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XTESI	EN IEC 62368-	1, TES	XTEST	
Clause Requirement	HOM	Remark	HOM	Result

-Appendix 1: For requirements of European group differences. ATTACHMENT TO TEST REPORT EN IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

	CENELEC C	COMMON MOD	DIFICATIO	NS (EN)				
		oclauses, notes 68-1:2014 are p		ures and annexe	s which are a	dditional to thos	e in	
CONTENT	Add the follo	wing annexes:	GTIN	G	GTING		ď	N/A
HU	Annex ZA (no Annex ZB (no Annex ZC (ir Annex ZD (ir	ormative) nformative)	with the Speci A-dev	ative references heir correspondir ial national condi viations ind CENELEC co	ng European p tions	oublications	TES	
		e "country" note the following lis		erence documen	t (EN IEC 623	368-1:2014)	TES	N/A
	0.2.1	Note	1	Note 3	4.1.15	Note		
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c		
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	TES	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4		
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	TES	
UL	For special r	national condition	ons, see Ar	nnex ZB.	7	HUA		N/A
	_	wing note: use of certain subst ment is restricted w				, -		N/A
HU	AX TESTING	, HUP	XTESTIN	HUP	XTESTING	HURY	TES	LING

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	J		TA)		1
Clause	Requirement	H	Remark	HO,	Result
4.Z1	Add the following new subcl	ause after 4.9:			N/A
	To protect against excessive and earth faults in circuits comains, protective devices shintegral parts of the equipme building installation, subject that c):	nnected to an a.c. nall be included either as ent or as parts of the	JAX TESTING		SUNG
	a) except as detailed in b) are necessary to comply with the and B.4 shall be included as	e requirements of B.3.1	TING		TING.
	b) for components in series with equipment such as the sequipment such as the sequipment, r.f.i. filter and switch fault protection may be providevices in the building install	upply cord, appliance , short-circuit and earth ded by protective	JAX TES!		5
	c) it is permitted for pluggab permanently connected eq dedicated overcurrent and sl the building installation, prov protection, e.g. fuses or circu specified in the installation in	juipment , to rely on hort-circuit protection in ided that the means of uit breakers, is fully	JAX TESTING		ETING
	If reliance is placed on prote- installation, the installation in except that for pluggable ec building installation shall be a protection in accordance with socket outlet.	structions shall so state, quipment type A the regarded as providing	AX TESTING	WAXTE	STING
5.4.2.3.2.4	Add the following to the end	of this subclause:		1/2	N/A
	The requirement for intercon circuit is in addition given in				
10.2.1	Add the following to c) and d) For additional requirements, see 10		TESTING	TE	N/A

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- 4	M. M.	EN IEC 62368-1	11/22
Clause	Requirement	Remark	Resul
10.5.1	Add the following after the first par	agraph:	N/A
	For RS 1 compliance is checked by under the following conditions:	y measurement	CUNG
	In addition to the normal operating controls adjustable from the outside object such as a tool or a coin, and adjustments or presets which are reliable manner, are adjusted so as radiation whilst maintaining an integral of the measurement of	e by hand, by any I those internal not locked in a is to give maximum Iligible picture for	HUAXTESTING
	NOTE Z1 Soldered joints and paint locking adequate locking.	s are examples of	HUAXTESTING
	The dose-rate is determined by me monitor with an effective area of 10 10 cm from the outer surface of the	cm², at any point	40.
	Moreover, the measurement shall a fault conditions causing an increas voltage, provided an intelligible pictor 1 h, at the end of which the measurement.	e of the high- ture is maintained	HUAX TESTING
	For RS1, the dose-rate shall not extaking account of the background l		
	NOTE Z2 These values appear in Directive May 1996.	96/29/Euratom of 13	NG
10.6.1	Add the following paragraph to the subclause:	end of the	N/A
K.	EN 71-1:2011, 4.20 and the related and measurement distances apply		410
0.Z1	Add the following new subclause a	after 10.6.5.	N/A
	10.Z1 Non-ionizing radiation from frequencies in the range 0 to 300		ESTING
	The amount of non-ionizing radiatic European Council Recommendation 12 July 1999 on the limitation of expenseral public to electromagnetic financial GHz).	on 1999/519/EC of posure of the	HUAXTESTING
	For intentional radiators, ICNIRP g be taken into account for Limiting E Varying Electric, Magnetic, and Ele Fields (up to 300 GHz). For hand-mounted devices, attention is draw and EN 50566	Exposure to Time- ectromagnetic neld and body-	HUAX TESTING
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designation the IEC cord types are given in Annex ZD.	ns corresponding to	STING

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		EN IEC 62368-1			
Clause	Requirement	HOM HO	Remark	HOM	Resul
Bibliograp	Add the following	standards:			N/A
ny		notes for the standards indicated:			
	IEC 60130-9	NOTE Harmonized as EN 60130-9	9. STING		LING
	IEC 60269-2	NOTE Harmonized as HD 60269-2			
	IEC 60309-1	NOTE Harmonized as EN 60309-1			
	IEC 60364	NOTE some parts harmonized in F		eries.	
	IEC 60601-2-4	NOTE Harmonized as EN 60601-2			
	IEC 60664-5	NOTE Harmonized as EN 60664-5			MG
	IEC 61032:1997	NOTE Harmonized as EN 61032:19	998 (not modified).		,
	IEC 61508-1	NOTE Harmonized as EN 61508-1	P .		
	IEC 61558-2-1	NOTE Harmonized as EN 61558-2	2-1.		
	IEC 61558-2-4	NOTE Harmonized as EN 61558-2	2-4.		
	IEC 61558-2-6	NOTE Harmonized as EN 61558-2	2-6.		ING
	IEC 61643-1	NOTE Harmonized as EN 61643-1	TESI		///
	IEC 61643-21	NOTE Harmonized as EN 61643-2	21.		
	IEC 61643-311	NOTE Harmonized as EN 61643-3	311.		
	IEC 61643-321	NOTE Harmonized as EN 61643-3	321.		
	IEC 61643-331	NOTE Harmonized as EN 61643-3	331.		NG
ZB	ANNEX ZB, SPE	CIAL NATIONAL CONDITIONS (EN	N) EST	TES	N/A
4.1.15	Denmark, Finlan	d, Norway and Sweden	NA.	HUAX	N/A
	To the end of the	subclause the following is added:			
	connection to othe safety relies on co surge suppressors network terminals marking stating th	e equipment type A intended for er equipment or a network shall, if onnection to reliable earthing or if a are connected between the and accessible parts, have a at the equipment shall be arthed mains socket-outlet.			UNG
	The marking text i as follows:	n the applicable countries shall be			
		paratets stikprop skal tilsluttes en ord som giver forbindelse til			LING
	In Finland : "Laite varustettuun pisto	on liitettävä suojakoskettimilla			
	In Norway : "Appa stikkontakt"	ratet må tilkoples jordet			
	In Sweden : "Appa	araten skall anslutas till jordat uttag"			ING

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	EN IEC 62368-	1 X TES		
Clause	Requirement	Remark	HOM	Result
4.7.3	United Kingdom			N/A
	To the end of the subclause the following is added:	~(G		-1G
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	AXTESTING		Line
5.2.2.2	Denmark			N/A
	After the 2nd paragraph add the following:			
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	AX TESTING		TING

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... IX TES





	XTEN	IEC 62368-1			
Clause	Requirement	Re	emark	HOM	Result
5.4.11.1	Finland and Sweden				N/A
and Annex G	To the end of the subclause the following	ng is added:			16
J	For separation of the telecommunicatio from earth the following is applicable:	n network			LINE
	If this insulation is solid, including insula part of a component, it shall at least cor				
	• two layers of thin sheet material, each shall pass the electric strength test belo				
	• one layer having a distance through in least 0,4 mm, which shall pass the electest below.				TIMG
	If this insulation forms part of a semicor component (e.g. an optocoupler), there distance through insulation requirement insulation consisting of an insulating completely filling the casing, so that clear creepage distances do not exist, if the passes the electric strength test in according to the compliance clause below and in additional components.	is no t for the mpound arances and component ordance with			
	• passes the tests and inspection criterian electric strength test of 1,5 kV multip (the electric strength test of 5.4.9 shall busing 1,5 kV), and	lied by 1,6			
	• is subject to routine testing for electric during manufacturing, using a test volta				LILA
	It is permitted to bridge this insulation w capacitor complying with EN 60384-14: subclass Y2.				
	A capacitor classified Y3 according to E 14:2005, may bridge this insulation und following conditions:	EN 60384- er the			TING
	• the insulation requirements are satisficed a capacitor classified Y3 as defined by which in addition to the Y3 testing, is testimpulse test of 2,5 kV defined in 5.4.11;	EN 60384-14, sted with an			
	• the additional testing shall be performed test specimens as described in EN 603				TING
	the impulse test of 2,5 kV is to be performed the endurance test in EN 60384-14, in the of tests as described in EN 60384-14.				
5.5.2.1	Norway				N/A
	After the 3rd paragraph the following is	added:			
	Due to the IT power system used, capa required to be rated for the applicable li voltage (230 V).				TING

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	STING	STIM		ESTING		TIME
	XTE	EN	IEC 62368-	ax TE	XX	
Clause	Requirement	40,	H	Remark	HO,	Result
F F C	Finland Names					NI/A
5.5.6	Finland, Norway					N/A
	ING	ubclause the followir	9	TING		NG
HU	basic insulation in	basic safeguard or n class I pluggable or ly with G.10.1 and the	equipment	AX TES!		
5.6.1	Denmark					N/A
	Add to the end of t	he subclause				
HU	outlets can be prote than the rating of the	ng installations wher ected with fuses with ne socket-outlets the ent type A shall be an	higher rating protection for	AX TESTING		LING
	Justification: In Denmark an exist protected by a 20 A	sting 13 A socket out A fuse.	let can be	TING		TING
5.6.4.2.1	Ireland and United	d Kingdom		YTES	YTE	N/A
HU	After the indent for the following is add	pluggable equipme ded:	ent type A, 🔨	br		
		urrent rating is taken est rating of fuse used		, NG		, NG
5.6.5.1	To the second para	agraph the following	is added:	TEST	TES	N/A
HU	accepted by termin	uctor sizes of flexible nals for equipment wi and up to and includi	th a rated	M,		
	1,25 mm ² to 1,5 mi	m² in cross-sectional	area.			
5.7.5	Denmark	W.	3	ING		N/A
	To the end of the s	ubclause the followir	ng is added:	TESTI		///
HI	equipment if the pr	truction shall be affix rotective conductor of 3,5 mA a.c. or 10 i	current	by,		

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	EN IEC 62368-	1 XTES		
Clause	Requirement	Remark	HOM	Result
5.7.6.1	Norway and Sweden			N/A
	To the end of the subclause the following is added:	, NG		TING
	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.	AX TESTING		
	It is however accepted to provide the insulation external to the equipment by an INTELLIGENT PULSE REPAIR or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	AX TESTING		TING
	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:	TESTING		TING
	"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	pt'		
	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)"	AX TESTING		TING
	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.	STING		TING
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	LAX TE		
	"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."	AX TESTING		.G
	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 medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	AX TESTING		TING

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		EN IEC 62368-	1 XTES		
Clause	Requirement	H	Remark	HOM	Result
5.7.6.2	Denmark				N/A
	To the end of the subclause th	ne following is added:	16		16
HI	The warning (marking safegua current is required if the touch protective current exceed the	current or the	JAX TESTING	HUAXTES	TIMO
B.3.1 and	Ireland and United Kingdom	1			N/A
B.4	The following is applicable:				
	To protect against excessive of circuits in the primary circuit or equipment, tests according to B.4 shall be conducted using a circuit breaker complying with rated 32A. If the equipment do tests, suitable protective device an integral part of the direct puntil the requirements of Anne	f direct plug-in Annexes B.3.1 and an external miniature EN 60898-1, Type B, bes not pass these ses shall be included as blug-in equipment,	JAX TESTING		TING
	met	TESTING	TESTING	- F	LING
G.4.2	Denmark		JRT "		N/A
	To the end of the subclause the	•			
	Supply cords of single phase a rated current not exceeding 13 with a plug according to DS 60	3 A shall be provided			
	CLASS I EQUIPMENT provided wearth contacts or which are intend locations where protection agains required according to the wiring rewith a plug in accordance with stands 2-5a.	ded to be used in st indirect contact is ules shall be provided	JAX TESTING		TIME
	If a single-phase equipment havir exceeding 13 A or if a poly-phase with a supply cord with a plug, thi accordance with the standard she 60884-2-D1 or EN 60309-2.	e equipment is provided s plug shall be in	AX TESTING		TING
	Mains socket outlets intended Class II apparatus with a rated be in accordance DS 60884-2 sheet DKA 1-4a.	d current of 2,5 A shall) ³		
	Other current rating socket ou compliance with Standard She 1-1c.		AX TESTING		TING
	Mains socket-outlets with eart compliance with DS 60884-2-I Sheet DK 1-3a, DK 1-1c, DK1 7a	D1:2011 Standard),		
	Justification: Heavy Current Regulations, S	ection 6c	TESTING		TING

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		EN IEC 62368-	1 X TES		
Clause	HU	Requirement	Remark	HOM	Result
G.4.2		United Kingdom			N/A
		To the end of the subclause the following is added:	SLA.		.NG
		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 Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	AXTESTIVE		
G.7.1		United Kingdom	STING	, c	N/A
		To the first paragraph the following is added:	ax TES		
		Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	Y TESTING		^{LING}
		NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Pr		
G.7.1		Ireland			N/A
		To the first paragraph the following is added:	, NG		NG
		Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion INTELLIGENT PULSE REPAIRs for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	AX TESTING		AIR.
G.7.2		Ireland and United Kingdom	TESTING	TES.	N/A
J.1.Z		To the first paragraph the following is added:	pt.		1 11/7
		A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.			

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	X TESTI	EN IEC 6	62368-1	XTES	777
Clause	Requirement	HORA	Remark	HOM	Result

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2	Germany The following requirement applies:	TESTING	N/A
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	ANDY.	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	AX TESTING HUAX TE	SUNG
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	STING	GING

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...IXTES

Appendix 2: REAL PHOTOS



Figure-1



Figure-2

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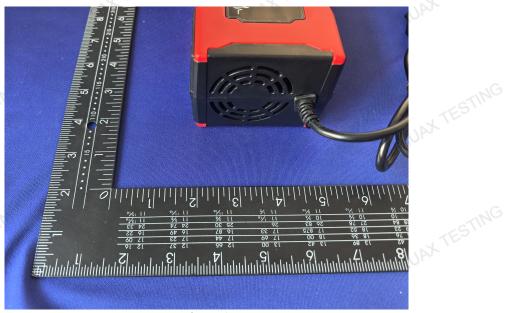


Figure-3



Figure-4



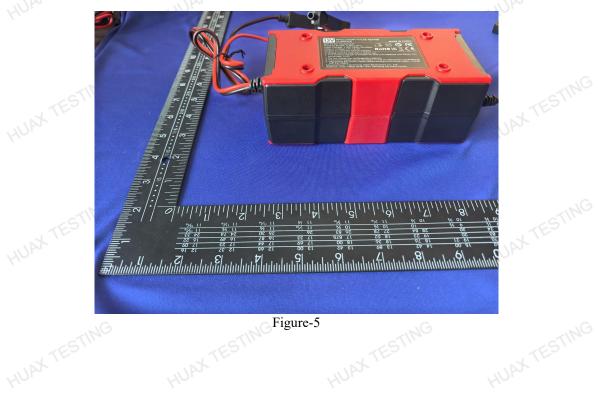


Figure-5



Figure-6



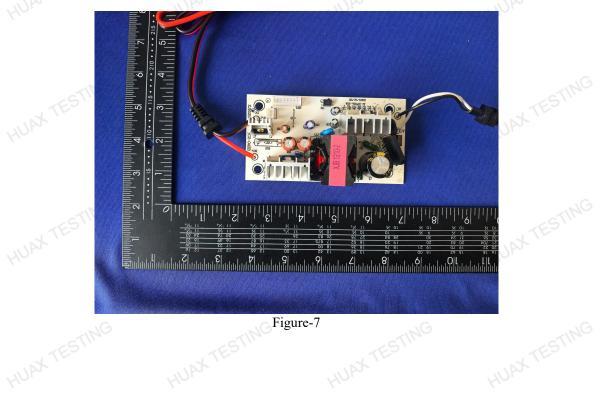
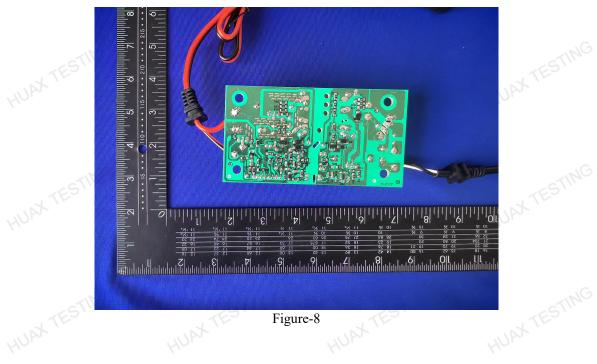


Figure-7





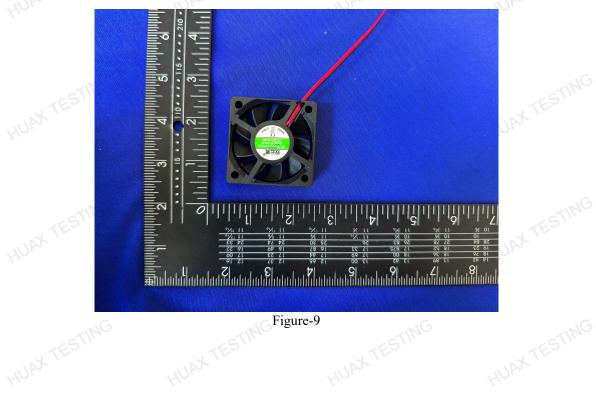


Figure-9

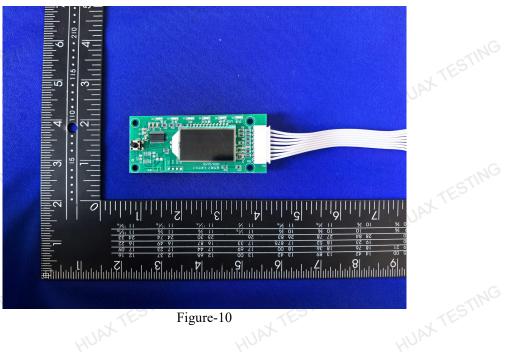


Figure-10



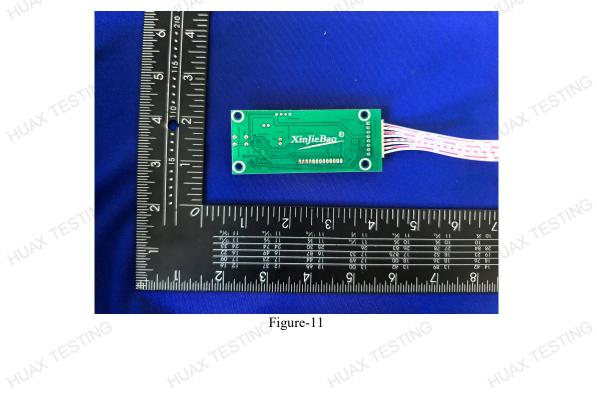


Figure-11



Figure-12

End of the report