

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for:

XonTel Technology Trd. Co. W.L.L Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait

Product: AC Controller

Trade Name: Xontel

Model Name: XT-2500AC

Date of Test: Apr. 08, 2024 to Apr. 11, 2024

Date of Report: Apr. 11, 2024

Report Number: HK2404080635-SR

Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street,

Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-2302 9901 FAX: +86-755-2302 9901

E-mail: service@cer-mark.com http://www.cer-mark.com



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TEST REPORT EN 62368-1

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

Report Number....:: HK2404080635-SR

Date of issue: 2024-04-11

Total number of pages.....: 78 pages

Applicant's name: XonTel Technology Trd. Co. W.L.L

Address....... Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait

Test specification:

Standard EN IEC 62368-1:2020 + A11:2020

Test procedure....: CE-LVD

Non-standard test method: N/A

Test Report Form No.....: IEC62368_1C

Test Report Form(s) Originator: UL(US)

Master TRF.....: 2019-01-17

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General disclaimer:

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

Test Item description	AC Controller
Trade Mark	Xontel
Manufacturer	XonTel Technology Trd. Co. W.L.L
Manufacturer Address	Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait
Model/Type reference	XT-2500AC
Ratings	Input: 100-240V~, 50-60Hz, 2A

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Testing procedure and testing location:		
☐ Testing Laboratory:	Shenzhen HUAK Testin	g Technology Co., Ltd.
Testing location/ address:		feng Zhongcheng Zhizao g, Fuhai Street, Bao'an District, China
Associated Testing Laboratory:		TESTING
Testing location/ address:	HUAKTESTING	MANY TESTING
Tested by (name + signature):	Paco Zhang	Paco zhang
Approved by (name + signature):	Dendi Wei	Dendi nel
Testing procedure: TMP/CTF Stage 1:	W. TESTINIS	AKTESTIVE AKTEST
Testing location/ address:	0	O HOW O HOW
Tested by (name + signature):	ESTING	HUAKTES
Approved by (name + signature):	HUAR	MAN.
Testing procedure: WMT/CTF Stage 2:	is me an	nie .
Testing location/ address:	O HUAK TES	WANTESTED HUANTES
Tested by (name + signature):		
Witnessed by (name + signature):	TESTING	TESTING TESTING
Approved by (name + signature):	HUAN	HUAN HUAN
Testing procedure: SMT/CTF Stage 3 or 4:	LAYTESTING	HUAKTESTING THE TIME
Testing location/ address:	0	NY TESTING
Tested by (name + signature):	NG TESTING MAN	TSTING TESTING
Witnessed by (name + signature):	MIN HUNG	MINNE TO HOVE
Approved by (name + signature):		
Supervised by (name + signature):		

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

-Appendix 1: For requirements of European group differences. (21 pages)

-Appendix 2: Photo attachments. (5 pages)

Summary of testing:

Tests performed (name of test and test clause):

All clauses.

Testing location:

Shenzhen HUAK Testing Technology Co., Ltd. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences:

European group differences.

☐ The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020.

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Copy of marking plate:

The artwork below may be only a draft.

Xontel
AC Controller
Model: XT-2500AC
Input: 100-240V~, 50-60Hz, 2A



XonTel Technology Trd. Co. W.L.L Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait

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Test item particulars:	MESTIN MAYTES!
Product group:	
Classification of use by:	
me me	
MY TESTING WAY TESTING	Skilled person Skil
Supply connection:	
TING	☐ not mains connected: ☐ ES1 ☐ ES2 ☒ ES3
Supply tolerance:	□ ±37 □ ±32 □ ±33
Supply tolerance	+20%/-15%
TIME	
A HUANTES	None
Supply connection – type:	☐ Dluggable equipment type A -
HUND HUAR	non-detachable supply cord
	□ appliance coupler
	direct plug-in
TESTING TESTING	pluggable equipment type B -
ALLAN HUAR	non-detachable supply cord
	appliance coupler
STAND	permanent connection
LAKTESTIN MILLER	mating connector other:
Considered current rating of protective	☐ other:
device:	Location: 🖂 building 🔲 equipment
THIS ESTING WHULL	N/A
Equipment mobility:	
	☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted
	other:
Overvoltage category (OVC):	
MY TES HUAKTES	OVC IV other:
Class of equipment:	
Special installation location:	Not classified □ other:N/A □ restricted access area
opeoidi installation location	outdoor location other:
Pollution degree (PD):	☐ PD 1
Manufacturer's specified T _{ma} :	25°C Outdoor: minimum°C
IP protection class:	☑ IPX0
Power systems:	☑ TN ☐ TT ☐ IT V _{L-L}
	not AC mains
Altitude during operation (m):	
Altitude of test laboratory (m):	
Mass of equipment (kg):	<7 kg

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POSSIBLE TEST CASE VE	RDICTS:	AK TESTING	TESTING	AK TESTING
- test case does not apply to	the test object	: N/A	(HUM	(1) HO
- test object does meet the r	equirement	: P (Pass)		
- test object does not meet the	ne requirement	: F (Fail)	.mG	an)G
GENERAL REMARKS:	- MAKTESTI	- WAKTES IN	- JUAK TESTI	WAKTEST
"(See Enclosure #)" refers "(See appended table)" ref			report.	
Throughout this report a [The related applicable OS	(CD)		(S20)	nd fulfilled
Determination of the test equipment and methods.	result includes conside	eration of measurem	ent uncertainty fro	om the test
Manufacturer's Declaration	n per sub-clause 4.2.5 o	f IECEE 02:	JAK TESTING	- WAKTES!
The application for obtaining includes more than one factor declaration from the Manufa sample(s) submitted for evalure representative of the product been provided	ory location and a cturer stating that the luation is (are) ts from each factory has	☐ Yes ☐ Not applicable		
When differences exist; th	ey shall be identified in	the General product	information section	٦.
Name and address of fact	ory (ies)	: Same as manufactu	irer	HUANTESTING
GENERAL PRODUCT INFO	ORMATION:			
Product Description – The products are AC Control enclosure is metal.	oller to be in indoor use o	only, electronic compor	nents mounted on P	WB, External
Model Differences – N/A				
Additional application cor	nsiderations – (Conside	erations used to test a	a component or su	b-assembly) –
N/A	HUAR		O HUAN	HUAN TESTING

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OVERVIEW OF EMPLOYED SAFEC	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	
6.1	Electrically-caused fire				
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 N	S	N/A	
7.1	Injury caused by hazardous	substances	tances		
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused injury				
Body Part	Energy Source		Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary; Instructed; Skilled	MS1: sharp edges and corners	N/A	N/A	N/A	
Ordinary; Instructed; Skilled	MS1: Equipment mass	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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10.7	Е	NERGY S	OURCE DI	AGRAM		0.1/2	
Optional. Manufacturers and identifying the demainded in power supply Insert diagram below. Exmechanical drawings	rcations are b and multipart	etween p	ower sources.	ces. Rec	ommend dia	gram be pro	vided
Theorianical drawings	T	ESTINE		a	X TESTI	,o	og.
WILLY TESTING	⊠ ES	⊠ PS	⊠ MS	⊠ TS	□ RS		

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AK TESTING	NAKTETINE ON THE	EN 62368-1	THE WILE THE	"IAK TESTING
Clause	Requirement + Test	.	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		W.TEPING
4.1.1	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P P
4.1.2	Use of components	See table 4.1.2	P
4.1.3	Equipment design and construction	No accessible part which could cause injury	AKTES P
4.1.4	Specified ambient temperature for outdoor use (°C)		N/A
4.1.5	Constructions and components not specifically covered	TESTINE MAKTESTINE	N/A
4.1.8	Liquids and liquid filled components (LFC)	(See G.15)	N/A
4.1.15	Markings and instructions	(See Annex F)	STING P
4.4.3	Safeguard robustness	HUAR	Р
4.4.3.1	General	N TESTINE	Р
4.4.3.2	Steady force tests:	(See Clause T.3, T.4, T.5)	TESTP® (
4.4.3.3	Drop tests	HUARTE	N/A
4.4.3.4	Impact tests:		Р
4.4.3.5	Internal accessible safeguard enclosure and barrier tests	ESTING AN TESTING	P
4.4.3.6	Glass Impact tests	(See Clause T.9, Annex U)	N/A
4.4.3.7	Glass fixation tests	STAVE	N/A
K.	Glass impact test (1J)	HUAKIL	_S N/A
4.4.3.8	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard:	(See Annex T)	Р
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	P (
4.4.4	Displacement of a safeguard by an insulating liquid	O HIDRER ON H	N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion	No explosion	N. TEPING
4.5.1	General	(See Annex M for batteries)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	N/A
HON	No harm by explosion during single fault conditions	(See Clause B.4)	N/A
4.6	Fixing of conductors	WAKTES	-TING P
JG (Fix conductors not to defeat a safeguard	All conductive parts are fixed on PCB by at least two soldering points;	Р
HUAKTESTINE		The primary and secondary lead wire were soldered to PCB and fixed by glue.	ANTESTING
	Compliance is checked by test	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socket - outlets	SSTING TESTING	N/A
4.7.2	Mains plug part complies with the relevant standard	O HUAN	N/A
4.7.3	Torque (Nm)	- WAKTESTI	N/A
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.1	General	STING	N/A
4.8.2	Instructional safeguard	THE HUAK IS	N/A
4.8.3	Battery compartment door/cover construction	Not such construction	N/A
9	Open torque test	0,, -	N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test	TESTING ON TESTING	N/A
4.8.4.4	Drop test	(See Clause T.7)	N/A
4.8.4.5	Impact test	TSTING	N/A
4.8.4.6	Crush test	WAR.	N/A
4.8.5	Compliance	N. C. O. Palar	N/A
	30N force test with test probe	- JUNK TESTING	N/A
TESTING	20N force test with test hook	STING TESTING	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	O HILLY ON	N/A
4.10	Component requirements	.0	N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays	(See Annex G)	N/A

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	AKTESTIN	WANTESTING	EN 62368-1	THE WESTIN	3	JAK TESTING
	Clause	Requirement +	- Test	Result - Remark	.	Verdict

5	ELECTRICALLY-CAUSED INJURY		PING
5.2	Classification and limits of electrical energy sources	White.	AUANA P
5.2.2	ES1, ES2 and ES3 limits	, NG	Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	eTING P
5.2.2.3	Capacitance limits:	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits:	No such single pulses with the EUT	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses with the EUT	N/A
5.2.2.6	Ringing signals:	No such ringing signals with the EUT	N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	TESTING WESTING	N TEPING
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	JAK TESTING	P
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	O HI AKT	Р
5.3.2.1	Accessibility to electrical energy sources and safeguards	THE WHATESTING	P
MAKTESTIN	Accessibility to outdoor equipment bare parts	JAK TESTI	N/A
5.3.2.2	Contact requirements	9,,	Р
TESTING	Test with test probe from Annex V:	The probe could not insert into the equipment as there is no ventilation on the product.	P
5.3.2.2 a)	Air gap – electric strength test potential (V):	(See appended table 5.4.9)	N/A
5.3.2.2 b)	Air gap – distance (mm):	ans.	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals intended to be used by ordinary person.	s ^{rivis} N/A
5.4	Insulation materials and requirements	THE OF THE PROPERTY OF THE PRO	Р
5.4.1.2	Properties of insulating material	HARTES	Р
5.4.1.3	Material is non-hygroscopic	STIME (S)	N. TESTP
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table)	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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses	TESTING TAK TESTING	TAK TEP
5.4.1.8	Determination of working voltage:	0,	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	P
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)	P
5.4.2	Clearances	"IAK TESTII"	AK TES P
5.4.2.1	General requirements	0,	Р
TING	Clearances in circuits connected to AC Mains, Alternative method	- TING	P
5.4.2.2	Procedure 1 for determining clearance	HAN ES	N/A
	Temporary overvoltage	- S	
5.4.2.3	Procedure 2 for determining clearance	- WAY TEETING	-TING P
5.4.2.3.2.2	a.c. mains transient voltage:	2.5kV	
5.4.2.3.2.3	d.c. mains transient voltage:	TESTINE	_
5.4.2.3.2.4	External circuit transient voltage	TIME WHICH	_
5.4.2.3.2.5	Transient voltage determined by measurement:	MHINE FESS	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:		Р
5.4.2.5	Multiplication factors for clearances and test voltages	TESTING NUMBER TESTING	N/A
5.4.2.6	Clearance measurement:	(See appended table 5.4.2.6)	Р
5.4.3	Creepage distances:	(See appended table 5.4.3)	STING P
5.4.3.1	General	HUART	Р
5.4.3.3	Material Group:	IIIb WILESTING	_
5.4.3.4	Creepage distances measurement:	(See appended table 5.4.3)	Р
5.4.4	Solid insulation	HUAKTES!	Р
5.4.4.1	General requirements		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	TESTING . N. TESTING	N/A
5.4.4.4	Solid insulation in semiconductor devices	(9) No.	Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	TESTING LANTESTING	N/A
5.4.4.6.1	General requirements	0,	N/A
5.4.4.6.2	Separable thin sheet material	STING	N/A
	Number of layers (pcs):	HIAR THE	N/A
5.4.4.6.3	Non-separable thin sheet material	NIDA NIDA	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	JAK TESTING	N/A
5.4.4.7	Solid insulation in wound components	0,,, 0,,	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, EP, KR, d, VPW (V)	(See appended Table 5.4.4.9)	N/A
HUAKTESTI	Alternative by electric strength test, tested voltage (V), KR:	(See appended Tables 5.4.4.9 and 5.4.9)	N/A
5.4.5	Antenna terminal insulation	- NG	N/A
5.4.5.1	General	HUAN TESS	N/A
5.4.5.2	Voltage surge test	HIM	N/A
5.4.5.3	Insulation resistance (MΩ)	ESTING	N/A
- 10	Electric strength test	(See appended table 5.4.9)	N/A
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	TESTING AK TESTING	AK TEPING
HOL	Relative humidity (%):	94	_
STING	Temperature (°C):	24	_
710	Duration (h)	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	V TESTIVO	Р
5.4.9.2	Test procedure for routine tests	TING HUM	N/A
5.4.10	Protection against transient voltages between external circuit	O HURKTES ON	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	-STANG	N/A
5.4.10.2.1	General	HUAKTES	N/A
5.4.10.2.2	Impulse test:	(See appended table 5.4.9)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TESTIN O HUAK TESTING	N/A
5.4.11	Separation between external circuits and earth	TING	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	MINNETE MINNET	STANG N/A
5.4.11.2	Requirements	TING	N/A
	Rated operating voltage U _{op} (V)	I HUANTED	_
OKTESTIN	Nominal voltage U _{peak} (V)	SIN. WYTESTING	
O HO.	Max increase due to variation U _{sp} :	0,10, 0,	
	Max increase due to ageing ΔU _{sa} :		
5.4.11.3	Test method and compliance:	(See appended table 5.4.9)	N/A
5.4.12	Insulating liquid	HUAKTE	N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:	(See appended table 5.4.9)	N/A
5.4.12.3	Compatibility of an insulating liquid:	(See appended table 5.4.9)	N/A
5.4.12.4	Container for insulating liquid:	TING OF	N/A
5.5	Components as safeguards	G HUAK TES	.6.
5.5.1	General	STILL WE TESTING	AK TESTP
5.5.2	Capacitors and RC units	0 mm 0 m	N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(a) (b)	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	_S M [©] N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	TIME MARKET	N/A
5.5.7.2	Use of an SPD between mains and protective earth	O PURK TEST.	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	TESTING AND	N/A
	RCD rated residual operating current (mA):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.6	Protective conductor		Р
5.6.2	Requirement for protective conductors	TESTING.	LOK TEPTING
5.6.2.1	General requirements	0,,,,	Р
5.6.2.2	Colour of insulation	STING	Р
5.6.3	Requirement for protective earthing conductors	HUAN	STING P
15	Protective earthing conductor size (mm²):	0.75mm ²	
6	Protective earthing conductor serving as a reinforced safeguard	THE HUMAN TESTING	N/A
MUNK TEST	Protective earthing conductor serving as a double safeguard	HUAN TESTING OF	N/A
5.6.4	Requirement for protective bonding conductors		Р
5.6.4.1	Protective bonding conductors	Step Step	P
WAKTESTA	Protective bonding conductor size (mm²)	0.75mm ²	
5.6.4.2	Protective current rating (A):	16A	
5.6.5	Terminal size for connecting protective earthing conductors (mm)	HUAKTESTING	STING P
5.6.5.1	Terminal size for connecting protective bonding conductors (mm):	Conductor size: 1.5mm ² , nominal thread diameter: 3.5mm	Р
5.6.5.2	Corrosion	HJAKTE	Р
5.6.6	Resistance of the protective bonding system	STILL OF THE THUS	AK TESTIP
5.6.6.1	Requirements	(a) HD (c) (d) H	Р
5.6.6.2	Test Method	(See appended table 5.6.6)	Р
5.6.6.3	Resistance (Ω) or voltage drop:	0.02Ω	Ping
5.6.7	Reliable connection of a protective earthing conductor	Wax Legy	P
5.6.8	Functional earthing	TSTING	N/A
	Conductor size (mm²)	HUAR	N/A
	Class II with functional earthing marking:	(No.	N/A
<u> </u>	Appliance inlet cl & cr (mm):	JOY TESTING	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	TEST PS
5.7.2	Measuring devices and networks	Figure 4 of IEC 60990 was used in determining of the limit of ES1.	Р
5.7.2.1	Measurement of touch current		Р
5.7.2.2	Measurement of prospective touch voltage	ESTING ESTING	Ping
5.7.3	Equipment set-up, supply connections and earth connections	O HOME	P

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Clause	Requirement + Test	Result - Remark	Verdict
5.7.4	Unearthed accessible parts	(See appended table 5.7.4)	Р
5.7.5	Earthed accessible conductive parts	(See appended table 5.7.5)	TAK TEPTING
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
KTES	Protective conductor current (mA)	WAY TES !	N/A
	Instructional Safeguard:	W HUAK!	N/A
5.7.7	Prospective touch voltage and touch current due to external circuits	- WAYTESTING	N/A
5.7.7.1	Touch current from coaxial cables	STING TESTING	N/A
5.7.7.2	Prospective touch voltage and touch current from external circuits	O HUADO O H	N/A
5.7.8	Summation of touch currents from external circuits	TING	N/A
HUAKTE	a) Equipment with earthed external circuits Measured current (mA)	O HARTE	N/A
KTESTING	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	HUAKTESTING	N/A
5.8	Backfeed safeguard in battery backed up supplies	M HUAKT	N/A
G	Mains terminal ES	(See appended table 5.8)	N/A
	Air gap (mm)	HUAR I	N/A

6	ELECTRICALLY- CAUSED FIRE		
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Ping
6.2.3	Classification of potential ignition sources	HUAKTE	HUAKTEP
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)	P P
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:	(See appended table B.1.5 and B.3)	P
MAKTESTR	Combustible materials outside fire enclosure	No such materials used.	N/A
6.4	Safeguards against fire under single fault conditions	0	Р
6.4.1	Safeguard Method	Approved fire enclosure used	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	TESTING WAY TESTING	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	- Mc	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.1	Supplementary safeguards		Р
6.4.3.2	Single Fault Conditions	: (See appended table B.4)	JAK TP
	Special conditions for temperature limited	d by fuse	N/A
6.4.4	Control of fire spread in PS1 circuits	STING	N/A
6.4.5	Control of fire spread in PS2 circuits	TESTING	N/A
6.4.5.2	Supplementary safeguards	H10 :	N/A
6.4.6	Control of fire spread in PS3 circuit	A TESTING	Р
6.4.7	Separation of combustible materials from	n a PIS	N/A
6.4.7.2	Separation by distance	HUAK	N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		Р
6.4.8.2	Fire enclosure and fire barrier material p	properties	Pine
6.4.8.2.1	Requirements for a fire barrier	O HOS	N/A
6.4.8.2.2	Requirements for a fire enclosure	-TING	Р
6.4.8.3	Constructional requirements for a fire er and a fire barrier	nclosure	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening	N/A
6.4.8.3.2	Fire barrier dimensions	HANTE	N/A
6.4.8.3.3	Top openings and properties	No opening	N/A
O HOM	Openings dimensions (mm)		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, con a), b) and/or c) dimensions (mm)		N/A
HUAKTESTING	Flammability tests for the bottom of a fire enclosure	A COLUMN TO THE	N/A
6.4.8.3.5	Side openings and properties		N/A
K TESTIL	Openings dimensions (mm)	THE TESTING	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition me c)		N/A
6.4.8.4	Separation of PIS from fire enclosure ar barrier distance (mm) or flammability rat		P
6.4.9	Flammability of insulating liquid	MAN TE	N/A
6.5	Internal and external wiring		N/A
6.5.1	Requirements		N/A
6.5.2	Requirements for interconnection to build wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-ou	tlets:	N/A

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NX TESTI	IG WAY TESTING (C)	EN 62368-1	W.T.STING	"IAK TESTING
Clause	Requiremen	t + Test	Result - Remark	Verdict
6.6	Safeguards against fire due additional equipment	e to connection to (Se	ee Annex Q.)	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		
7.2	7.2 Reduction of exposure to hazardous substances No hazardous chemicals with the equipment.		s ^N N/A
7.3	Ozone exposure	CATING CO	N/A
7.4	Use of personal safeguards (PPE)	NG HUAKTE	N/A
JAK TESTIN	Personal safeguards and instructions:	JAKTESTIN - UI	_
7.5	Use of instructional safeguards and instructions	(i)	N/A
	Instructional safeguard (ISO 7010)		_
7.6	Batteries:	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1, Equipment maximum mass < 7 kg, classified as MS1	STING P
8.3	Safeguards against mechanical energy sources	TESTING .	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.	AK TESTIPS (
8.4.1	Safeguards		Р
	Instructional Safeguard:		Р
8.4.2	Sharp edges or corners	TESTING AN TESTING	P
8.5	Safeguards against moving parts	0,10	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	WAKTESTING.	N/A
16	MS2 or MS3 part required to be accessible for the function of the equipment	O MAKE	N/A
·	Moving MS3 parts only accessible to skilled person	MAN TESTI	N/A
8.5.2	Instructional Safeguard	STING OF TESTING	_
8.5.4	Special categories of equipment comprising moving parts	● HING	N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts	ESTING TESTING	N/A
8.5.4.2.1	Protection of persons in the work cell	O HUNE	N/A
8.5.4.2.2	Access protection override	Dun	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	TESTING TAK TESTING	N/A
8.5.4.2.3	Emergency stop system	0,,,	N/A
X TESTING	Maximum stopping distance from the point of activation (m)	MAKTESTING	N/A
JG	Space between end point and nearest fixed mechanical part (mm):	une Numer,	N/A
8.5.4.2.4	Endurance requirements	HUAKTES	N/A
HUAKTESTIN	Mechanical system subjected to 100 000 cycles of operation	HUAN TESTING H	N/A
	- Mechanical function check and visual inspection		N/A
20	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	ESTING HAM TESTING	N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:	MAKTESTI	N/A
8.5.4.3.3	Disconnection from the supply	O HUAKT	N/A
8.5.4.3.4	Cut type and test force (N):	STING	N/A
8.5.4.3.5	Compliance	ING MANAKES	N/A
8.5.5	High Pressure Lamps	JAK TESTIL	N/A
9	Explosion test:	0,,	N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment	ESTING ESTING	N/A
8.6.1	Product classification	HUNK.	N/A
-NG	Instructional Safeguard:	, NG	_
8.6.2	Static stability	WAX TESTA	N/A
8.6.2.2	Static stability test	HUAKT	N/A
8.6.2.3	Downward Force Test	- STING	N/A
8.6.3	Relocation stability test	THE HUAK	N/A
MAKTESTI	Wheels diameter (mm)	WAKTESTI.	_
9	Tilt test	0,	_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)	ESTING TESTING	N/A
8.7	Equipment mounted to wall or ceiling	HUAR	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	TESTING TESTING	N/A
8.7.2	Direction and applied force	O HUART	N/A
G	Test 1, additional downwards force (N):	-alG	N/A
K.TES.	Test 2, number of attachment points and test force (N)	HUAKTES	s ^{sso} N/A
G	Test 3 Nominal diameter (mm) and applied torque (Nm)	V TESTING	N/A
8.8	Handles strength	STING WHITE	N/A
8.8.1	Classification	HUAKTES	N/A
8.8.2	Handle strength test		N/A
	Number of handles:		N/A
" TESTING	Force applied (N)	TESTING V. TESTING	N/A
8.9	Wheels or casters attachment requirements	O HUM	N/A
3.9.2	Pull test	TIVG	N/A
8.10	Carts, stands and similar carriers	HIAN TEES	N/A
8.10.1	General	HUAK	N/A
8.10.2	Marking and instructions	TESTING	N/A
8.10.3	Cart, stand or carrier loading test and compliance	THUS HIME	N/A
- UNAKTESTI	Loading force applied (N):	WAK TEST II	_
8.10.4	Cart, stand or carrier impact test	(a)	N/A
8.10.5	Mechanical stability		N/A
TESTING	Force applied (N):	ESTING TESTING	_
8.10.6	Thermoplastic temperature stability	HIPPART	N/A
8.11	Mounting means for rack mounted equipment	-nVG	N/A
8.11.1	General	WAY TEST	N/A
8.11.2	Requirements for slide rails	HUAKT	N/A
G	Instructional Safeguard:	ESTING	N/A
8.11.3	Mechanical strength test	MG HUMP?	N/A
8.11.3.1	Downward force test, force (N) applied	JAK TESTING THE	N/A
8.11.3.2	Lateral push force test	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance	-STING	N/A
8.12	Telescoping or rod antennas	HUAKET	N/A
	Button/Ball diameter (mm)	9	

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X TESTING	LANTESTINE OF HU	EN 62368-1	NE WHEN	NG	AK TESTING
Clause	Requirement + Test	0,	Result - Remark	9	Verdict

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts		Р
9.3.2	Test method and compliance		Р
9.4	Safeguard against thermal energy sources		Р
9.5	Requirements for safeguards		N/A
9.5.1	Equipment safeguard		N/A
9.5.2	Instructional safeguard		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance	(See appended table 9.6)	N/A

10	RADIATION		N/A
10.2	Radiation energy source classification	-CSTING	N/A
10.2.1	General classification	ING HUAR	N/A
WAK TESTI	Lasers	JAK TESTIL	JAK TES
.	Lamps and lamp systems	0,	_
	Image projectors		_
TESTING	X-Ray:	ESTING TESTING	TESTING
HUAR	Personal music player	O HIM.	HUAIC
10.3	Safeguards against laser radiation	-mG	N/A
IK TES	The standard(s) equipment containing laser(s) comply:	MAKTES."	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)	V.TESTING W	N/A
10.4.1	General requirements	STING HUM	N/A
MINAX PE	Instructional safeguard provided for accessible radiation level needs to exceed	White it was	N/A
	Risk group marking and locati		N/A
AK TESTING	Information for safe operation and installation	TESTING AK TESTING	N/A
10.4.2	Requirements for enclosures	(a) Mon.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
.0	UV radiation exposure	(See Annex C)	N/A
10.4.3	Instructional safeguard	TESTING WAR TESTING	N/A
10.5	Safeguards against X-radiation	0,,,	N/A
10.5.1	Requirements	TESTING	N/A
	Instructional safeguard for skilled persons:	MUPA"	N/A
10.5.3	Maximum radiation (pA/kg):	(See appended tables B.3 & B.4)	N/A
10.6	Protection against acoustic energy sources	JAK TESTING	N/A
10.6.1	General	STING WITH	N/A
10.6.2	Classification	HILAN TO HI	N/A
	Acoustic output LAeq,T, dB(A)		N/A
.0	Unweighted RMS output voltage (mV):		N/A
MAKTESTING	Digital output signal (dBFS)	ESTIN THE THE	N/A
10.6.3	Requirements for dose-based systems	0	N/A
10.6.3.1	General requirements	TETING	N/A
10.6.3.2	Dose-based warning and automatic decrease	HUARCE	_
10.6.3.3	Exposure-based warning and requirements	of Walnut	_
	30 s integrated exposure level (MEL30):	- WAKTES THE	_
Y TESTIN	Warning for MEL ≥ 100 dB(A):	STING WITE TIME	N/A
10.6.4	Measurement methods	O HUMAN ON H	N/A
10.6.5	Protection of persons		_
-STING	Instructional safeguards:	-STING -STING	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	O HINNES	_
10.6.6.1	Corded listening devices with analogue input	W.T.S.TING	N/A
	Listening device input voltage (mV):	Make T	_
10.6.6.2	Corded listening devices with digital input	-mc	_
	Max. acoustic output LAeq,T, dB(A):	OG HURKTEST	_
10.6.6.3	Cordless listening devices	STORY OF THE STORY	_
(1) 11 11 11 11 11 11 11 11 11 11 11 11 1	Max. acoustic output LAeq,T, dB(A):	9 mm	_

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	OK TESTING	WANTESTING W	EN 62368-1	NY TESTING	UAK TESTING
	Clause	Requirement + Test	(a)	Result - Remark	Verdict

В	NORMAL OPERATING CONDITION TESTS, ABN CONDITION TESTS AND SINGLE FAULT COND		P
B.1	General	MAN (I)	H _{UND} P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal Operating Conditions	WAY TEST	CTING P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
The	Audio Amplifiers and equipment with audio amplifiers	TING HILIKTES I.	N/A
B.2.3	Supply voltage and tolerances	±10%	P P
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements:	(See appended table B.3)	W.TEPING
B.3.2	Covering of ventilation openings	(a) 100°	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	JAK TESTINE	N/A
B.3.6	Reverse battery polarity	STING ME.	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	O HUDALITY O H	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	P
B.4	Simulated single fault conditions	TES!"	UNAK TEP
B.4.2	Temperature controlling device open or short-circuited:	(See appended table B.4)	N/A
B.4.3	Motor tests	HUNKTE	STING P
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	(See Clause G.5)	Р
B.4.4	Short circuit of functional insulation	IG HUAKTE	P
B.4.4.1	Short circuit of clearances for functional insulation	STILL WE TESTING	AK TESTIP
B.4.4.2	Short circuit of creepage distances for functional insulation	0,000	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	ESTING TESTING	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	O HUMES	HUANA

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THAN TESTIN	EN 62368-1	ES. WANTESTI.	AKTES.
Clause	Requirement + Test	Result - Remark	Verdict
B.4.6	Short circuit or disconnect of passive components		Р
B.4.7	Continuous operation of components	TESTING LOW TESTINGS	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	(a)	Р
B.4.9	Battery charging under single fault conditions:	S WAKTES TO	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	WAY TESTING	N/A
C.1.2	Requirements	STANS OF TESTING	N/A
C.1.3	Test method	HUAR OF HI	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples	TESTIN MAKESTIN	N/A
C.2.3	Carbon-arc light-exposure apparatus	0, 0	N/A
C.2.4	Xenon-arc light exposure apparatus	TETING	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	O HOL	N/A
D.2	Antenna interface test generator	LAK TESTING	N/A
D.3	Electronic pulse generator	STANG WHO.	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio signals		N/A
	Maximum non-clipped output power (W):		_
LAK TESTIVE	Rated load impedance (Ω)	TESTING TO THE STREET	_
),100	Open-circuit output voltage (V)	0,	_
TESTING	Instructional safeguard:	See Clause F.5	_
E.2	Audio amplifier abnormal operating conditions	HUAN	N/A
	Audio signal source type	O HOW	N/A
	Audio output power (W):	WANTES IN IS	N/A
N TESTIN	Audio output voltage (V):	STANG WIESTING	N/A
O WILL	Rated load impedance (Ω):	@ lange	N/A
	Requirements for temperature measurement	(See Table B.1.5)	N/A
E.3	Audio amplifier abnormal operating conditions	(See Table B.3, B.4)	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	. 60	HUAR TES
F.1	General requirements		Р

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Clause	Requirement + Test	Result - Remark	Verdict
HUAR TESTING	Instructions – Language	Evaluated the user manual in English version. The manufacturer commits to provide them in the language of the countries where the product will be distributed.	_
F.2	Letter symbols and graphical symbols	- WAYTES IN	-TING P
F.2.1	Letter symbols according to IEC60027-1	W HUAKT	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	WAY TESTING	Р
F.3	Equipment markings	ESTING OF THE	TESTP ^G
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	_
F.3.3	Equipment rating markings	0 0	Р
F.3.3.1	Equipment with direct connection to mains	Considered	Р
F.3.3.2	Equipment without direct connection to mains	HUMA	N/A
F.3.3.3	Nature of supply voltage	See marking	_
F.3.3.4	Rated voltage	See marking	_
F.3.3.4	Rated frequency	See marking	_
F.3.3.6	Rated current or rated power	HILAN DA	_
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	TESTI	WAK TEP
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking:	HUAK TES!	N/A
F.3.5.3	Replacement fuse identification and rating markings	War.	Р
F.3.5.4	Replacement battery identification marking:	- WAKTES!	N/A
F.3.5.5	Terminal marking location	STANG (1)	N/A
F.3.6	Equipment markings related to equipment classification	O HILLIAM ON	N/A
F.3.6.1	Class I Equipment		Р
F.3.6.1.1	Protective earthing conductor terminal	ESTING . 4 TESTING	W. TE. PING
F.3.6.1.2	Neutral conductor terminal	O MA	N/A
F.3.6.1.3	Protective bonding conductor terminals	Dia	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth	TESTING.	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	0 100	N/A
F.3.7	Equipment IP rating marking:	IPX0	_
F.3.8	External power supply output marking	Marked on the label	Р
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	P
F.3.10	Test for permanence of markings	Complied	P
F.4	Instructions	9	Р
THYG	a) Information prior to installation and initial use	-the -the	P
HUAKTE	b) Equipment for use in locations where children not likely to be present	White O	MAK P
KTES	c)	MAKTES TO THE MAKE	STING P
lig.	d) Equipment intended for use only in restricted access area	IG HUNYTESTING	N/A
HUAK TESTIN	e) Equipment intended to be fastened in place	HUANTESTING	N/A
	f)		N/A
HUAKTESTING	g) Protective earthing used as a safeguard	TESTING HUAN TESTING	N/A
	h) Protective conductor current exceeding ES2 limits	WAY TESTING	N/A
6	i)Graphic symbols used on equipment	O HUAKT	Р
· Y TESTIN'	j)Permanently connected equipment not provided with all-pole mains switch	TING HULLITESTING	N/A
O HOW	k)Replaceable components or modules providing safeguard function	0,00	N/A
HUAKTESTING	l)Equipment containing insulating liquid	ESTING HURK TESTING	N/A
, mic	m) Installation instructions for outdoor equipment	G	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.5	Instructional safeguards	No instructional safeguard is considered as necessary.	N/A
G	COMPONENTS		HUAM
G.1	Switches	Old	N/A
G.1.1	General requirements	- WAKTES	N/A
G.1.2	Ratings, endurance, spacing, maximum load	MINK!	N/A
G.1.3	Test method and compliance	STING	N/A
G.2	Relays	THE HUAY	N/A
G.2.1	General requirements	S LAK TESTING	N/A
G.2.2	Overload test	0,	N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2	-STING	N/A
G.3	Protection Devices	HURKIN	HUAKI
G.3.1	Thermal cut-offs		N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	AUAKTESTIN WY	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	TSTING NUMBER	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	STING HUNDE	N/A
G.3.2	Thermal links	Why O H	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691		N/A
G.3.2.1b)	Thermal links tested as part of the equipment	ave ave	N/A
HUAKTEST	Aging hours (H)	TEST WAY TEST	_
"	Single Fault Condition:	9	_
TESTING	Test Voltage (V) and Insulation Resistance (Ω). :	TESTING	_
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N/A
G.3.4	Overcurrent protection devices	TESTING	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	O HUANTES O H	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	TING	N/A
G.4.1	Spacings	THE HUM TES	N/A
G.4.2	Mains connector configuration:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	STING TESTING	N/A
G.5	Wound Components	White.	HURIS P
G.5.1	Wire insulation in wound components	ing	Р
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	MAKTES	STING P
G.5.1.2 b)	Construction subject to routine testing	THE THE	Р
G.5.2	Endurance test on wound components	- MAKTESI"	N/A
G.5.2.1	General test requirements	ING (II)	N/A
G.5.2.2	Heat run test	O HUAR O H	N/A
	Time (s):		_
-alG	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains	STAN TESTINA	N/A
G.5.3	Transformers	0, 0	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	HIAKTESTING	N/A
	Position:	HINK.	_
G	Method of protection:	TESTING	_
G.5.3.2	Insulation	We HAVE WAS	N/A
WAK TEST	Protection from displacement of windings:	HUANTEST	
G.5.3.3	Overload test:		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit	STING	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	White.	N/A
G.5.4	Motors	TNG.	Р
G.5.4.1	General requirements	TO HINKIES IN	N/A
	Position:	HUAK	_
G.5.4.2	Test conditions	ESTING	N/A
G.5.4.3	Running overload test	NG HUAK	N/A
G.5.4.4	Locked-rotor overload test	MAKTESTI	N/A
9	Test duration (days):	0,	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	THE SUM	N/A
G.5.4.5.2	Tested in the unit	WAK TEST	N/A
)	Electric strength test (V):	(i)	

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	hVG TESTING	N/A
HUAR	Electric strength test (V)	HIME	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	ox Esting	Р
G.5.4.6.2	Tested in the unit	O HOW	Р
3	Maximum Temperature	anc and	Р
	Electric strength test (V)	- WAKTES!	Р
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	HUAKTESTING	N/A
	Electric strength test (V)		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors	NG TESTING	N/A
G.5.4.9	Series motors	(a) HOLE	N/A
TING	Operating voltage	D _m	
G.6	Wire Insulation	HUAKTEON	N/A
G.6.1	General	HUAR	N/A
G.6.2	Solvent-based enamel wiring insulation	ESTING	N/A
G.7	Mains supply cords	HUME	N/A
G.7.1	General requirements	WANTES IN	N/A
(i)	Туре	0, 0	
	Rated current (A):		_
TESTING	Cross-sectional area (mm²), (AWG)	NG TSTING	_
G.7.2	Compliance and test method	MINK IL	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	W TESTING	N/A
G.7.3.2	Cord strain relief	O RUM	N/A
G.7.3.2.1	Requirements	**C	N/A
	Strain relief test force (N)	- UNAN TESTA	_
G.7.3.2.2	Strain relief mechanism failure	TESTING	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	White I	
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry	Dra. Dra	N/A
G.7.5	Non-detachable cord bend protection	- WAKTESTIN	N/A
G.7.5.1	Requirements	0	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.5.2	Test method and compliance	aa	_
HUAKTESTING	Overall diameter or minor overall dimension, D (mm)	WAKTES IN	_
TING	Radius of curvature after test (mm)	TING	_
G.7.6	Supply wiring space	HUAKTES	N/A
G.7.6.1	General requirements	HILAK.	N/A
G.7.6.2	Stranded wire	TSTING	N/A
G.7.6.2.1	Requirements	MAR	N/A
G.7.6.2.2	Test with 8 mm strand	"IAKTESTI"	N/A
G.8	Varistors	0,	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock	G ESTING	N/A
G.8.2.1	General	HUAR	N/A
G.8.2.2	Varistor overload test	- A	N/A
G.8.2.3	Temporary overvoltage test	MANTESTIN	N/A
G.9	Integrated Circuit (IC) Current Limiters	W HUAN'S	N/A
G.9.1	Requirements	TING	N/A
	IC limiter output current (max. 5A):	HIAKTE	_
AKTESTIVI	Manufacturers' defined drift:	AK TESTING	_
G.9.2	Test Program	(a) Man. (b)	N/A
G.9.3	Compliance		N/A
G.10	Resistors	G TING	N/A
G.10.1	General	HUAKTES	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	WESTING	N/A
G.10.4	Voltage surge test	O FILL	N/A
G.10.5	Impulse test	m/G	N/A
G.10.6	Overload test	WAKTES !	N/A
G.11	Capacitor and RC units	W TESTING	N/A
G.11.1	General requirements	O HILIAN O P	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	GmG	N/A
G.12	Optocouplers	X TESTI	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTING	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	TESTING HUAKTESTING	N/A
9	Type test voltage Vini:		_
TESTING	Routine test voltage, Vini,b:	VTESTING	_
G.13	Printed boards	O NO.	Р
G.13.1	General requirements	- C	Р
G.13.2	Uncoated printed boards	- WAYTESTO	N/A
G.13.3	Coated printed boards	T STIME OF THE STIME	N/A
G.13.4	Insulation between conductors on the same inner surface	O HUMO	N/A
STING	Compliance with cemented joint requirements (Specify construction):	TTING TTING	_
G.13.5	Insulation between conductors on different surfaces	Mark I.	N/A
TESTING	Distance through insulation	(See appended table 5.4.4.5)	N/A
	Number of insulation layers (pcs):	HUAR	<u> </u>
G.13.6	Tests on coated printed boards	O min	N/A
G.13.6.1	Sample preparation and preliminary inspection	NK TESTING	N/A
G.13.6.2	Test method and compliance	STANG WIND	N/A
G.14	Coating on components terminals	HUAR TO P	N/A
G.14.1	Requirements	(See G.13)	N/A
G.15	Liquid filled components		N/A
G.15.1	Requirements	LESTING AVESTING	N/A
G.15.2	Test methods and compliance	(a) (b)	N/A
G.15.2.1	Hydrostatic pressure test	STING	N/A
G.15.2.2	Creep resistance test	NE HUAR IL	_S N/A
G.15.2.3	Tubing and fittings compatibility test	HUN	N/A
G.15.2.4	Vibration test	TESTING	N/A
G.15.2.5	Thermal cycling test	THIS HUMB	N/A
G.15.2.6	Force test	HUAKTES	N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX	<u>()</u>	N/A
G.16.1	Condition for fault tested is not required	ESTING TESTING	N/A
HUAIL	ICX with associated circuitry tested in equipment	W. HILDER	N/A
AG.	ICX tested separately	. A.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.16.2	Tests		_
HUAKTESTING	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test		N/A
K TESTING	Mains voltage that impulses to be superimposon	The	_
	Largest capacitance and smallest resistance ICX tested by itself for 10000 cycles test		_
G.16.3	Capacitor discharge test	W TESTING	
Н	CRITERIA FOR TELEPHONE RINGING SIG	NALS	N/A
H.1, HUAK TEX	General	HIAR HARTE	N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal	V ESTING	N/A
H.3.1.1	Frequency (Hz)	D. Hope	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V)	- HIAK TE	_
H.3.1.4	Single fault current (mA):	HUM	_
H.3.2	Tripping device and monitoring voltage	TESTING	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	WAXEELING WHILE	N/A
H.3.2.2	Tripping device	0	N/A
H.3.2.3	Monitoring voltage (V)	:	_
J	INSULATED WINDING WIRES FOR USE W	ITHOUT INTERLEAVED INSULATION	Ping
HUAKTE	General requirements	(See separate test report)	HUAKTEP
K	SAFETY INTERLOCKS		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		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance	: (See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method	:	N/A
K.7	Interlock circuit isolation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test	(See appended table 5.4.11)	N/A
L	DISCONNECT DEVICES		Р
L.1	General requirements		Р
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		Р
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		Р
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance	(See appended Tables and Annex M and M.3)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2	Compliance	(See Table M.4.2)	

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	TE EN	62368-1	
Clause	Requirement + Test	Resu	ılt - Remark Verdict
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a se lithium battery	condary	N/A
M.4.4	Drop test of equipment containing a secolithium battery	ndary	N/A
M.4.4.2	Preparation and procedure for the drop to	est	N/A
M.4.4.3	Drop, Voltage on reference and dropped (V); voltage difference during 24 h period		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short circuit during ca	ırrying	N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.	2.3)	N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		N/A
M.7	Risk of explosion from lead acid and NiC batteries	d	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m3/h)		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%)		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%)		N/A
M.7.4	Marking		N/A
M.8	Protection against internal ignition from e spark sources of batteries with aqueous electrolyte	xternal	N/A
M.8.1	General requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume <i>Vz</i> (m³/s):		_
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm):		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard:		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used	Pollution degree considered	
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	Р
	Value of X (mm)		
P	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)		_
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.1	General		N/A

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Clause	Requirement + Test Result - Re	emark	Verdict
P.4.2	Tests		_
	Conditioning, TC (°C)		_
	Duration (weeks)		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING W	IRING	N/A
Q.1	Limited power sources		N/A
Q.1.1	Requirements		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance (See appended table	e Q.1)	N/A
	Current rating of overcurrent protective device (A)		_
Q.2	Test for external circuits – paired conductor cable		_
	Maximum output current (A)		N/A
	Current limiting method		N/A
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
R.4	Compliance		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm)		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Cheesecloth did not ignite		N/A
S.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		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (test condition), (°C):		_
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N	(See appended table T.2)	Р
T.3	Steady force test, 30 N	(See appended table T.3)	Р
T.4	Steady force test, 100 N	(See appended table T.4)	N/A
T.5	Steady force test, 250 N	(See appended table T.5)	Р
T.6	Enclosure impact test	(See appended table T.6)	Р
	Fall test		Р

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Clause	Requirement + Test	Result - Remark	Verdict
	Swing test		Р
T.7	Drop test	(See appended table T.7)	N/A
T.8	Stress relief test	(See appended table T.8)	Р
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		_
	Height (m)		
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		_
U	MECHANICAL STRENGTH OF CATHODE RAY TAGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
J.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen:	(See Annex T)	N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	IGERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		N/A
V.2	Accessible part criterion		N/A
X	ALTERNATIVE METHOD FOR DETERMINING C CIRCUITS CONNECTED TO AN AC MAINS NOT RMS)		N/A
	Clearance ::	(See appended table X)	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OOR ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods:		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means	(See Annex P.4)	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:	(See Table T.6)	N/A

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NX TES	TING WAKTESTING (III)	EN 62368-1	W TESTING	WAN TESTING
Clause	Requirement + Test	Result	t - Remark	Verdict

4.1.2	TABLE: List of critical components	P

HD.					
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Appliance inlet	Yueqing Hongchang Radio Co., Ltd.	DB-14	250VAC, 10A, Max. 70°C	EN 60320-1	VDE 40028645
Internal wire	Xin Sheng Terminal Mfg Ltd	1007	80 °C, 300VAC, 20AWG	EN IEC 62368-1	UL E328303 and tested with appliance
PCB	Fai Wong Star Electronic Co Ltd	FW-4	V-0, 130°C, min. 1.0mm	EN IEC 62368-1	UL E171766 and tested with appliance
Fan	SUNON	MF40201VX- 1000C-A99	12VDC, 1.06W	EN IEC 62368-1	Tested with appliance

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OK TESTIM	JAKTESTING (B)	EN 62368-1	THE WESTING	VAN TESTING
Clause	Requirement + Test	O ,	Result - Remark	Verdict

5.2	Table: C	lassification of	electrical energy s	ources	5.	W. TESTIN	3	W TEPING
5.2.2.2 -	- Steady State	e Voltage and C	urrent conditions	. 1835				- 100-
	Location (e.g.				Parameters			
No.	SUPPLY	Test conditions	U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	ES Class	
^{NG} 1	264V	Primary	Normal		-XTEST	SS	50Hz	
	CTING	ciurcuit	Abnormal	ESTING	NO.	SS	50Hz	ES3
HUAKT	M HUAN		Single fault – SC/OC	HUAR		SS	50Hz	

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	TABLE: Working vo	ltage measureme	nt	1 HOW	P P
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
L to N	K IESTING W	240	340	<30kHz	Max.
Transformer	primary to secondary	224	323	<30kHz	W HOW

5.4.1.10.2	1.1.10.2 TABLE: Vicat softening temperature of thermoplastics			N/A	
Penetration	(mm):	.0	VIESTING	_	
Object/ Part No./Material		Manufacturer/t rademark	T softening (°C)	C)	
N _C	LANTESTING		OK TESTING		
supplement	ary information:	TESTING ME	STING	TESTING (

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NY TESTING	NAKTESTING OF THE	EN 62368-1	STING WATESTING	-11	JAK TESTING
Clause	Requirement + Test	(i)	Result - Remark	1	Verdict

5.4.1.10.3 TABLE: Ball pi	ressure test of thermoplastic	S AKTESTINES	K TESTING	
Allowed impression diamete	r (mm):	≤ 2 mm	0 -	
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm	
Transformer bobbin	See tabel 4.1.2	125	1.2	
PCB	See tabel 4.1.2	125	0.9	
Supplementary information:	JAK TESTING	AKTESTING		

5.4.2, 5.4.3 TABLE: Minimum CI	earance	s/Creepa	ge distance		HUAK	W _H	Р
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	>3.0	2.6	>3.0
Different polarity of L/N to enclosure	340	240	<30	3.0	>6.0	5.0	>6.0
Primary parts to secondary parts of transformer	340	240	<30	3.0	>5.0	5.0	>5.0

Supplementary information:

Note 1: Only for frequency above 30 kHz

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

Note 3: Provide Material Group

5.4.4.2 TABI	TABLE: Minimum distance through insulation						
Distance through nsulation di at/of:		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
Insulation tape		340	<30	See table 4.1.2	2layers	2 layers	

5.4.4.9	TABLE: Solid in	TABLE: Solid insulation at frequencies >30 kHz							
Insulation ma	aterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW}	(Vpk)	
9"	0	0		9	0	D. House			
Supplementa	ary information:								

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X TESTING	EN 62368-1	TESTING WITH	VANTESTING (
Clause	Requirement + Test	Result - Remark	Verdict

5.4.9	TABLE: Electric strength tests		.0	Р
Test voltag	ge applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional	Star		m/G	
Between L	and N (Fusen F1 opened)	DC	2500	No
L&N to En	closure	DC	2500	HUMA NO
Basic/supp	olementary:		TESTING	
	NG HUNE	NG THIS M	HUANE	
Reinforced	II HURN'TES	STILL HUAKTES	"IAK TESTI	HUAKTES
L&N to out	tput 🔍	DC	4000	No
Transform	er primary and secondary	DC	4000	No
1 layer ins	ulation tape of transformer	DC	4000	No
Routine Te	ests: Mullim	(I) HUANG	HUAR	MAR!
TNG.	Plan		- NG	
Suppleme	ntary information:	TING	MAKTESI	TING

5.5.2.2	TABLE: St	ored discharg	ge on capacito	ors	-STING	N/A
Supply Vol	tage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
-						
N TESTING		ESTING	X TESTING	· V TEST	NC VTESTIN	KTESTING.
Supplemen	ntary informat	ion:	O HOM	O Home	(i) Home	(i) Home
X-capacito	rs installed fo	r testing are:				
□ bleedir	ng resistor rat	ing:				
☐ ICX:						
Notes:						
A. Test Lo	cation:					
Phase to N	leutral; Phase	e to Phase; Ph	ase to Earth; a	and/or Neutral t	o Earth	
B. Operati	ing condition	abbreviations:				
N - Norma	ol operating co	ondition (e.g., i	normal operation	on, or open fus	e); S –Single fault cond	dition

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			EN 6	2368-1				
Clause		Requireme	nt + Test	(i)	F	Result - Rem	ark	Verdict
5.6.6	TABLE: Re	esistance of pro	otective conduc	ctors and te	rminatio	ons		N/A
	Accessible pa	rt	Test current (A)	•		Voltage dr	rop Resistance (Ω)	
TING			MG			-m ^C	,	
KTEST	- STING	Jr. com	AKTEST	-STING		WAY TES!		GTING
Supplemer	ntary informati	on:		HUAKTER			HUAK	TEC
G		₇₅ 5	ING CO			ESTING		
5.7.4	TABL	E: Unearthed a	ccessible part	s				Р
ocation	ocation Operating and fault conditions					Parameters		ES class
			ns Voltage (Volt (Vrms	_	Curren (Arms or A		
STING		Normal Normal		5m	vpk		50	ES1
and N Single		Single fault (D1 SC)	: 264Vac/50	oHz 5m	vpk	MHUAK T	50	ES1
		Single fault	AKTESTING	12m	ıvpk	HUAK TESTING	50	ES1
Abbreviatio	NG NTE	circuit; OC= op	TESTING	N. TESTIN	3 (1) H ¹³	NK TESTING	TESTING	OKTESTING (
5.7.5	TABLE:	Earthed acces	ssible conduct	ive part		MILE HUP	(D)	N/A
Supply volt	age (V)	······						_
Phase(s)			[] Single Pha	ase; [] Three	Phase:	[] Delta []	Wye	
Power Dist	ribution Syste	m:	☐ TN	TT HUAK TEST	☐ IT	THUAK TE	5111	
_ocation				Fault Condition No in IEC Touch of 60990 clause 6.2.2 (m/s			nt Comment	
<i>y</i> -	AKTESTING	(Hu	AN	AKTESTING		HUAR	. 64	TESTING
Supplemen	itary Informati	on:		Hom		-Ca	(I) HUM	
		MAKTEST				AK TESTAL		
5.8	TABL	E: Backfeed sa	afeguard in bat	tery backed	up sup	plies	TESTING	N/A
_ocation	. 100	Supply voltage (V)	Operating and to	fault Time		pen-circuit oltage (V)	Touch current (A)	ES Class
A)G		.n.G	a)G		s.IG		-o1G	- JG
MO	ntary informati on: SC= short	on: circuit, OC= op	en circuit	HUAKTEST		MHUAK TE	51"	HUAKTESTI
TING			TOG			-mi	3	

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NY TESTING	NAKTESTING OF THE	EN 62368-1	STING WATESTING	-11	JAK TESTING
Clause	Requirement + Test	(i)	Result - Remark	1	Verdict

6.2.2	Та	able: Electrical power sources (PS) measurements for classification								
Source		Description	Measurem	ent	Max Power after 3 s	Max Power after 5 s*)	PS CI	assification		
			Power (W)	:						
All primary circuit		Normal	V _A (V)	:			PS3	(declared)		
			I _A (A)	:						

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1	Table: Determ	Table: Determination of Potential Ignition Sources (Arcing PIS)							
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No				
	MAKTESTI	(1) HO	MAKTESTI	O Ho.	MAKTESTI				
G	(a)	-n/G	(D)	miG (
		MAKTES		MAKTESTA					

Supplementary information:

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

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NK TESTING	WANTESTING OF HE	EN 62368-1	THE WHITESTING	WANTESTING (
Clause	Requirement + Test	0	Result - Remark	Verdict

6.2.3.2	Table: Det	ermination of Potentia	al Ignition Sour	ces (Resistive F	PIS)	AK TEPING
Circuit Lo	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
	nal circuits/ conents		@ <u>-</u>		10 O HOM	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.

8.5.5	TABLE: High Pressure Lamp	() H	() HO	N/A
Description		Values	Energy Source C	lassification
Lamp type.	16 Julie (1)	n G TESTING OF THE	_	
Manufactur	er	O HUAN	_	
Cat no			_	
Pressure (c	cold) (MPa)	.0	MS_	.0
Pressure (o	perating) (MPa)	LANTESTING	MS_	" LAK TESTING
Operating ti	ime (minutes)	0,	_	
Explosion n	nethod;		_	
Max particle	e length escaping enclosure (mm).:	TESTING	MS_	STING
Max particle	e length beyond 1 m (mm):	MINA.	MS_	
Overall resu	ult:	A TESTING		
Supplemen	tary information:	of the Human	G	TING A

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Supplementary information:

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				- 3 -					- 40
NYTESTING	MAKTES	Line (1)		EN 62	368-1		OKT	ESTING	WAX TESTING
Clause	9	Require	ement + Te	st		Res	ult - Remar	k 🧶	Verdict
9.6	TABLE	: Tempera	ture meas	urements	for wireles	ss power t	ransmitter	S	N/A
Supply voltage	e (V)		:		HUAKTEST		HUAK TEST	,	_
Max. transmit	power of t	ransmitter	(W):					- 6	_
			eiver and contact		eiver and contact		ver and at of 2 mm		eiver and at e of 5 mm
Foreign ob	ojects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
		C MAN HO.			./	Mark Ho.			C 49

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature	measurer	ment	s	HUAKT	ESTING	0	HUAKTESTI	e O	P UA TESTING
TNG	Supply voltage (V)		:	9	0V/6	60Hz	26	4V/50Hz		_
IX TEST	Ambient T _{min} (°C)	CTEC	:	23.	.5	25.0	23.6	25.0)	,mi —
(D) H	Ambient T _{max} (°C)			23.	.9	25.0	0 23.8	3 25.0) MINTER	_
Maximum meas	ured temperature T of pa	art/at:					T (°0	C)		Allowe d T _{max} (°C)
PCB	3)	0		52.	.8	54.3	3 51.4	52.8	3 -	130
Internal wire				48.	.4	49.9	9 47.3	3 48.7	7	80
Enclosure inside	e near transformer	STING	-	46.	.8	48.	3 45.6	6 47.0)	Ref.
Enclosure outsid	de near transformer	HUARTE		35.	.6	37.	1 34.1	35.	5	60
Motor surface	(4)			49.	.7	51.	2 48.6	50.0)	Ref.
Supplementary	information:	KTESTING			-n/G		. 1	IK TESTING		-NG
Temperature T	of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂	(°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulatio n class
	MAKTESTA						WAK TEST			
Supplementary	information: N/A	75	ING		V TES	LING	9		STING	" TESTING

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AK TESTING	WANTESTINE OF HE	EN 62368-1	TIME HE HE	-	JAK TESTING
Clause	Requirement + Test	.	Result - Remark	(i)	Verdict

B.2.5	TABLE: Inp	ut test	-6		i.G.	.0		Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	on/status
264V/50Hz	z 0.151	@	16.6	(<u>0</u>			Max no	rmal load
264V/60Hz	z 0.151		16.6			TESTING	Max no	rmal load
240V/50Hz	z 0.166	2.0	16.7	JAK ESTING	- (6)	Oby.	Max no	rmal load
240V/60Hz	z 0.166	2.0	₆ 16.7	<u> </u>		ang	Max no	rmal load
100V/50Hz	2 0.308	2.0	16.8		HUAKTE		Max no	rmal load
100V/60Hz	z 0.308	2.0	16.8	IN TESTIN	<u> </u>	OKTES	Max no	rmal load
90V/50Hz	0.334		16.8	<u></u>		(O)-	Max no	rmal load
90V/60Hz	0.334		16.8				Max no	rmal load

B.3, B.4	TAB	BLE: Abnorm	nal operating	condition to	ests	The .		HUAR		HUAR P
Ambient ter	mpera	ture (°C)		ali Ola		:	25°C	if not menti	oned	_
Power sour	ce for	EUT: Manuf	acturer, model	/type, outpu	ıt rating	G.	See p	age 2		
Component	t No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		use nt, (A)	T-couple	Temp. (°C)	Observation
R2		S-C	264V	10min	F1	-		1		Output shutdown, no hazard, no broken
C5		S-C	264V	10min	F1	-				Output shutdown, no hazard, no broken
										The appliance can't work, Record temperature:
Motor		Lock rotor	264V	7hours	F1	-				PCB: 49.7°C Motor enclosure: 45.2°C
										No damage, no hazard.
Supplemen	itary ir	nformation:	HUA	Lie	AUA HUA	Kin		HUAKIL		HUAK

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OKTESTIM	EN 62	2368-1	MAKTESTING	
Clause	Requirement + Test	Result - Remark	Verdict	

M.3	TABLE: Pr	otection circu	uits for I	batteri	es provid	ed v	vithin	the equ	uipment	N/A
Is it possible to in	nstall the bat	tery in a revers	se polari	ty posi	tion?:			O Home	(<u> </u>
Environment On					C	harç	ging			
Equipment Sp	ecification		Voltag	ge (V)					Current (A)	
JG O		auG		0,				-n/G	0,	
					Battery	spe	ecifica	tion		
		Non-recharge	eable ba	tteries			Red	hargeal	ble batteries	
		Discharging	Uninter		C	Char	ging		Discharging	Reverse
Manufactur	er/type	current (A)	charg currer		Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)
LAKTESTING	LAKTESTINE	- 1	K TESTING		LAKTESTI	200		. 12%	TESTING	LAKTESTINE
	0,,,	0,		-) Pro			0	(9
Note: The tests of	of M.3.2 are a	applicable only	when ab	ove ap	propriate o	data	is not	availab	le.	
Specified battery	temperature	e (°C)		44.	TESTING:		6	HOE		KTE
Component No.	Fault condition	Charge/ discharge mo		Test time	Temp.		rrent (A)	Voltag (V)	e Obs	ervation
TESTING	V TESTING	0 m	EST	NG	" TESTING	8) HO		ESTING	Y TESTING
HUAK	HUPS	6	HUAK	6	HUPS			6) ¹	UAL.	HUM
Supplementary in										
Abbreviation: SC	C= short circu	uit; OC= open o	circuit NI	L= no c	chemical le	eaka	ge; N	S= no s	pillage of liqu	iid; NE= no

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

M.4.2	TABLE: Chargi	ng safeguard	ls for equipm	ent containing	ı a secondar	y lithium batt	tery	N/A
Maximu	m specified chargin	ng voltage (V)	Kites	v Trating.	HUAK		y TES	_
Maximu	m specified chargir	ng current (A)		HOPE	.0	(a)	On	_
Highest	specified charging	temperature ((°C)	:	- JUAN TESTING			
Lowest	specified charging	temperature (°C)		(a)	Y TESTING	0	
Battery r	manufacturer/type	Operating		Measurement		Obse	ervation	1
		and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)			
HUAKTESI	HUAKTES		HUAKTEST	HUAKTESI	- V	JAKTEST	THE STATE OF	IK TEST
33	(a)	(6)			(9)			

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NY TESTING	JAK-ESTING OF THE	EN 62368-1	SELING WALESTING	WAK TESTING
Clause	Requirement + Test	0	Result - Remark	Verdict

Supplementary information:

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

Q.1	TABLE: Circuits inte	ended for interc	onnection with	building wiri	ng (LPS)	N/A
Note: Mea	sured UOC (V) with all lo	oad circuits disco	nnected:	TIN	3	•
Output	Components	U _{oc} (V)	I _{sc}	(A)	S (\	/A)
Circuit			Meas.	Limit	Meas.	Limit
O HO.	(i)	O HO	0,		D HO.	0
Suppleme	ntary Information:	TING		n/G	-m/G	TIL
SC=Short	circuit					

T.2, T.3, T.4, T.5			TSTING	HUAKTESTING	P	
Part/Location	n Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	
Top enclosure	e Metal	Min.1.5	250	HUMAN 5	No damaged	
Side enclosur	e Metal	Min.1.5	250	5	No damaged	
Bottom enclosu	ure Metal	Min.1.5	250	5	No damaged	
Bottom enclosu Supplementary		Min.1.5	250	5	No damage	

T.6, T.9	TABLE: Impact tests	HUAKTE	HUAKTE	HILAK TE	JAKTEP
Part/Locatio	n Material	Thickness (mm)	Vertical distance (mm)	Observation	
Top enclosur	re Metal	Min.1.5	1300	No damaged	TING
Side enclosure Metal		Min.1.5	1300	No damaged	
Bottom enclos	ure Metal	Min.1.5	1300 No damaged		
Supplementary	y information:	TINE	STING &	HOPE	ESTING (

T.7 TABLE: Drop tests		9				
Part/Location	on Material	Thickness (mm)	Drop Height (mm)	Observation		
HUAKTE	HUAKTE	HUAKIL	HUAKT	HUAKIL	HUAKTE	
,					9	

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N TESTING	JAKTEST	W. O.	EN 62368-1	We Co	K TESTING	LAK TESTING
Clause	0,,,,	Requirement + Test	0,,,	Result - Rem	nark	Verdict
-36		-16	6	.5	-1G	.16
Supplementa	ry informatio	n:	NAX TE	STILL STANKEN	STILL	MAKTESTIN

T.8	TAB	LE: Stress relief to	est			(G	Р
Part/Locat	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
Completed sample		(for all sources)	Min.1.5	70	1 HARATES 7	No damag hazardous cannot be	live parts

X	TABLE: Altern	TABLE: Alternative method for determining minimum clearances distances						
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)				
W.TED	TESTING	HUANTES	ING HUAKTES	TESTING				
Supplementary	information:	MUAN.		Mar.				

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NY TESTING	JAK-ESTING OF THE	EN 62368-1	SELING WALESTING	WAK TESTING
Clause	Requirement + Test	0	Result - Remark	Verdict

-Appendix 1: For requirements of European group differences.

	MENT TO TEST REPORT IEC (DIFFERENCES AND NATION		CES
(Audio/video, information and con			
Differences according to	EN IEC 62368-1:2020+A11:	2020	TESTINE
Attachment Form No	EU_GD_IEC62368_1C		HUAR
Attachment Originator:	UL(Demko)		
Master Attachment	2020-03-10		

	CENELEC COMMON MODIFICATIONS (EN)	Р
WHITESTING	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	WAXTES PING
NG HUAKTESTAV	Add the following annexes: Annex ZA (normative) Annex ZB (normative) Annex ZB (normative) Annex ZC (informative) Annex ZD (informative) Are deviations IEC and CENELEC code designations for flexible cords	N/A
1	Modification to Clause 3.	Р
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:	P HAY TESTING
1 YESTING	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	N/A

	1 Are	1 Alex	
3.3.19.1	momentary exposure level, MEL		N/A
MIS HUAKTESTIN	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	HUAN TESTING HUAN TESTING	KTESTING (
	Note 1 to entry: MEL is measured as A-weighted levels in dB.		
AK TESTING	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	W TESTING	N TESTING

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OK TESTING		N TES	EN 62368-1	LIAC CO	N. TESTIN	G	AK TESTING
Clause	Requirem	ent + Test	0,,	Re	sult - Remark	.	Verdict
3.3.19.3	sound exposure, <i>E</i> A-weighted sound press integrated over a stated			ESTAG	HUAKTESTING		N/A
	Note 1 to entry: The SI u $E = \int_{0}^{T} p(t)^{2} dt$		HUANTESTING	•			THE
3.3.19.4	sound exposure level,	SEL	16	ING HUNK	The state of the s	G	N/A
MAN TESTINA	logarithmic measure of s reference value, <i>E0</i> , typi threshold of hearing in h	cally the 1 kH		a			KTESI.
	Note 1 to entry: SEL is n in dB.	neasured as A	A-weighted lev	/els			UAK TESTING
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{\text{dB}}$ Note 2 to entry: See B.4	of FN 50332	-3:2017 for	0			^{UU/G}
MG (additional information.	TING	9		CING	9	
3.3.19.5	levels reported in dBFS level, 0 dBFS, is the level Hz sine wave whose unconsitive digital full scale, corresponding to negative	are always r.i el of a dc-free dithered posit leaving the c	m.s. Full scale 997- ive peak value code				N/A
	Note 1 to entry: It is invalevels. Because the defination a sine wave, the level of lower than that of a sine particular, square wave dBFS.	lid to use dBl nition of full so signals with a wave may ex	S for non-r.m cale is based of a crest factor aceed 0 dBFS.	on			JAK TESTING TING
2	Modification to Clause	10	W. 10			. 55. 57	N/A
10.6	Safeguards against acc Replace 10.6 of IEC 623	-		THIS THURK	ES!"	ß	N/A
10.6.1.1	Introduction Safeguard requirements term exposure to excess levels from personal must the ear are specified bel for earphones and head personal music players a A personal music player	s for protectionsive sound prosic players cloom. Requiren phones intendere also cove	n against long essure osely coupled nents ded for use wi red.	to	HUAK TESTING	● _{H1}	N/A

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Y TESTING	AKTES	The Car	EN 62368-1	TES	ING	AK TESTING
Clause	0,00	Requirement + Tes	t O	Result - Remark	0,"	Verdict
.,G	intended fo	or use by an ordinary p	person, that:	-0		6
	audiovisua	ned to allow the user to I content / material; and stening device, such a	d 🔘 Mo.	WAY TESTING		JAK TESTING
	around the – has a pla	ayer that can be body v	vorn (of a size	MARKTESTING		m ^G
	is intended continuous	be carried in a clothing for the user to walk ar use (for example, on a y, at an airport, etc.).	ound with while in	S WAY TESTING		.G. #
	EXAMPLE	S Portable CD players, nes with MP3 type fea		S, MIANTES		K TESTING
		nusic players shall com its of either 10.6.2 or 1		THE		UAK TESTING
		otection against acous om applications is refer		HUAKTESTING		TU/G
		is the intention of the C tive methods for now, b		or testing		
	Therefore,	ent method as given in manufacturers are end 10.6.5 as soon as pos	ouraged to	HUNK TEST		X TESTING
	requiremen	evices sold separately ats of 10.6.6.				
	only. The require	uirements are valid for ements do not apply to nal equipment;	, UAKTE	de la martisma		JAKTESTING
		rofessional equipment i ecial sales channels. A		MAK'TESTING		TING
	normal elec	ctronics stores are con al equipment.	sidered not to be	MAKTESTING		
	assistive lis	nid equipment and othe stening; ving type of analogue p		MINUTES!		K TESTING
	multiband receiver, a	nce radio receiver (for radio receiver or world n AM radio receiver), a player/recorder;	band radio	THE		JAKTESTING

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			EN 62368-1			
Clause	9,00	Requirement + Te	est	Result - F	Remark	Verdict
HUNKTESTING	this techn that within a fe	This exemption has been nology is falling out of under the work of which will no longer the will not be extended the control of the control o	se and it is expecer er exist. This	eted	AN TESTING	O KAR TESTIVE
		r while connected to an allow the user to walk a use.		er that		AKTESTING
	primarily relevant t	oment that is clearly des for use by children, the toy standards may appl	limits of the y.	d HAN TESTING		HUX TESTING
	EN 71-1:2 measurer	vant requirements are g 2011, 4.20 and the rela ment distances apply.	ted tests method		-16	6
10.6.1.2	the range	zing radiation from ra e 0 to 300 GHz	O HUA	K.LES.		N/A
	Europear 12 July 1	unt of non-ionizing radion Council Recommenda 999 on the limitation of oublic to electromagneti	ation 1999/519/E0 exposure of the	C of		AN TESTING
	taken into Varying E (up to 300	tional radiators, ICNIRF o account for Limiting E Electric, Magnetic, and I 0 GHz). For hand-held attention is drawn to EN	xposure to Time- Electromagnetic I and body mounte	Fields		NAME TO STATE
0.6.2	Classific	ation of devices with	out the capacity	to estimate sound	dose	N/A
10.6.2.1	General	CTESTING CONTRACTOR	ESTING	K TESTING	V TESTING	N/A
	(30 s) red requirement devices to	dard is transitioning fro quirements to long-term ents. These clauses rer hat do not comply with ated in EN 50332-3.	based (40 hour) main in effect only	y for		O V JIN'S
	measurer	ifying the acoustic outp ments are based on the nt sound pressure level	A-weighted	d.mic Nucle Testing		NATESTINE (
	term LAe is lower the simulation	c where the average so q, T) measured over the han the average product n noise, measurements for of the complete son	e duration of the s ced by the progra	song mme er		D FILE
	becomes	the duration of the son assical music, acoustic	g.	W.		O LUAN.

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- K TESTING	LAN TESTING	EN	62368-1	TESTIN	>	AK TESTING
Clause	Requiremen	nt + Test	(a)	Result - Remark	(a)	Verdict
HUAKTESTING	typically has an average s LAeq, T) which is much low programme simulation noi capable to analyse the co- programme simulation noi need to be given as long a pressure of the song does	wer than the average. Therefore, intent and compare, the warnings the average	verage if the player is pare it with the g does not sound		•	UNITESTINE
HAK TESTINE	limit. For example, if the player simulation noise to 85 dB, of the song is only 65 dB, warning or ask an acknow average sound level of the limit of 85 dB.	but the average there is no need dedgement as e song is not all	ge music level ed to give a long as the bove the basic	MAKTESTING HUAKTESTIN	HUNK IS	KTESTING (
10.6.2.2	RS1 limits (to be supers	eded, see 10.0	6.3.2)	9		N/A
	RS1 is a class 1 acoustic exceed the following: – for equipment provided listening device), and with between the player and its the combination of player	as a package (a proprietary of silstening devi	player with its connector ce, or where	O HUANTESTING		JAK TESTING
	known by other means sudetection, the LAeq, T acowhen playing the fixed "pr described in EN 50332-1. – for equipment provided to the control of the control	ustic output sh ogramme simu	all be ≤ 85 dB llation noise"	WHIAK TESTING		TING
	connector (for example, a connection to a listening of unweighted r.m.s. output v (analogue interface) or -25 when playing the fixed "pr described in EN 50332-1.	levice for gene voltage shall be 5 dBFS (digital	ral use, the e ≤ 27 mV interface)	WHATESTIN		KESTING (
	- The RS1 limits will be up	odated for all d	evices as per	TESTING		TESTING
HUAR	10.6.3.2.	HUAN	HUAR	HUAN	40.	UAR
10.6.2.3	RS2 limits (to be supers	TING	•	TING		N/A
	RS2 is a class 2 acoustic exceed the following: – for equipment provided a	po-		MUAK TES		TING
	listening device), and with between the player and its the combination of player	a proprietary of a listening devi	connector ce, or when	WANTESTING		
	known by other means su 130 detection, the <i>L</i> Aeq, <i>T</i> 100 dB(A) when playing the simulation noise" as descri- for equipment provided	ch as setting of acoustic outpoine fixed "progrational fixed" acoustic outpoints of the fixed in EN 503	r automatic ut shall be ≤ amme 332-1.	WHURK TESTING		K-TESTING (
	connector (for example, a connection to a listening of unweighted r.m.s. output v (analogue interface) or -10 when playing the fixed "pr	3,5 phone jack levice for gene voltage shall be	k) that allows ral use, the e ≤ 150 mV	WANTESTING		UAKTESTING

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AK TESTIL	MAKTEST	EN 62368-	TESI	AK TESTING	WAY TES!
Clause	Requirement +	- Test	Re	sult - Remark	Verdict
	as described in EN 50332-1.				
10.6.2.4	RS3 limits		V TESTING		N/A
	RS3 is a class 3 acoustic ene RS2 limits.	ergy source that ex	ceeds		O PUAR
10.6.3	Classification of devices (n	new)	TING	MAKTESTIN	_{ass} N/A
10.6.3.1	General	THAK TE),	N/A
N TESTINE	Previous limits (10.6.2) create negative and false positive P New limits, compliant with Th of 23 June 2009, are given be	MP sound level wa ne Commission De		ESTING	NATESTING (
10.6.3.2	RS1 limits (new)	MIN W		O HUN	N/A
	RS1 is a class 1 acoustic energy exceed the following: — for equipment provided as its listening device), and with between the player and its list the combination of player and known by other means such detection, the LAeq, T acoust	a package (player a proprietary conr stening device, or v d listening device is as setting or auton	with viector vhere s natic		ON LAN TESTING
WAY TESTING	when playing the fixed "progr described in EN 50332-1. – for equipment provided with connector (for example, a 3,5 connection to a listening devi unweighted r.m.s. output volt (analogue interface) or -30 dl when playing the fixed "progr described in EN 50332-1.	h a standardized 5 phone jack) that a ice for general use tage shall be ≤ 15 r BFS (digital interfa	allows , the nV ce)	ESTING WAY TESTING	HUARTESTING (
10.6.3.3	RS2 limits (new)		TING		N/A
	RS2 is a class 2 acoustic energy exceed the following: – for equipment provided as a listening device), and with a poetween the player and its list the combination of player and its list.	a package (player proprietary connec stening device, or v	with its tor vhere		O LANTES.
	the combination of player and known by other means such detection, the weekly sound of described in EN 50332-3, sha playing the fixed "programme	as setting or auton exposure level, as all be ≤ 80 dB whe	natic		HIVE W
	described in EN 50332-1. – for equipment provided with connector (for example, a 3,5 connection to a listening deviunweighted r.m.s. output leve week, as described in EN503 (analogue interface) or -30 dl when playing the fixed "progri	h a standardized 5 phone jack) that a ice for general use el, integrated over 332-3, shall be ≤ 18 BFS (digital interfa	allows , the one 5 mV ce)		MU XTES I.
	described in EN 50332-1.	-6		-6	

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AK TESTING	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.6.4	Requirements for maximum sound exposure		N/A
10.6.4.1	Measurement methods	TESTING	N/A
	All volume controls shall be turned to maximum during tests.	MAN (MAN)	JAR
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	MINK I.	TING
10.6.4.2	Protection of persons	- C	N/A
	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard.	WANTESTING WANTESTING	KTESTING (
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	HUANTESTING HUANTE	LAN TESTING
	The elements of the instructional safeguard shall be as follows: - element 1a: the symbol IEC 60417-6044 (2011-01)	WHATES, WAYER THE	KTESTING (
	 – element 2: "High sound pressure" or equivalent wording – element 3: "Hearing damage risk" or equivalent wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording 	MAKTESTING	LAK TESTING
	An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when	HUAN TESTING HUANTE	THE ME
	the power is switched off. The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for	O HUANTESTING	LAK TESTING
9	an output exceeding RS1. The acknowledgement does not need to be repeated more than once every		

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NK TESTIL	MAKTE		NK TESE	N 62368-1	NY TESTI		AK TES
Clause	0	Requirement	+ Test	(i)	Result - Remark	1	Verdict
	20 h of cur	mulative listening	time.				
		CTING		OMITS			CTING
	NOTE 2 E	xamples of mean	is include vi	isual or audible			LAK TES
	signals. Ad	ction from the use	er is always	needed.			
	NOTE 3 TI	he 20 h listening	time is the	accumulativo			
		me, independent					.Ca
		nal music player h					LINE
	life person	iai iliusic piayei i	ias been sw	vitched on.			
	A skilled p	person shall not	be unintent	ionally exposed			
	to RS3.	MAKTEST		, ,	AKTEST		
0.6.5	Requirem	ents for dose-ba	ased syste	ms			N/A
0.6.5.1	General re	equirements	THUAK TES	HUAR	= HUAKTES	HU	N/A
	(1)						
		nusic players sha					
		elow when tested		to EN 50332-3,			
	using the li	imits from this cla	ause.	Zing.			TNG
	- 40.	(ES)	JAK TEST	NK TESTI			OKTEST
		facturer may offe					Or
		to modify when a					
		e notifications and					
		r experience with					_{aN} G
		s. This allows the					1111
		at best meets the					
		age needs. If such					
		administrator (fo					
		s, business/educa					TNG
		ole to lock any op	tional settin	igs into a			K TESI
	specific co	nfiguration.		HOW HOW			
	The		9	C 1 10			
		nal music player					
		and explanation t					
		ent system, the ri					TING
		stem safely. The					JAK TES.
		sources may sigr					0.
		osure, for examp clubs, cinema, ca					
0.6.5.2		ed warning and			TESTING		N/A
-	TESTINE	AUH AND		TESTING			IN/A
	When a do	ose of 100 % CSI	D is reached	d, and at least			1
		00 % further incre					1
	shall warn	the user and req	juire an ack	nowledgement.			
	In case the	e user does not a	cknowledge	e, the output			"ıG
		automatically dec	crease to co	ompliance with			Y TESTING
	class RS1.			HUAR			Tr.
	(0)						
	The warnir	ng shall at least o	learly indica	ate that listening			
		% CSD leads to	the risk of	hearing damage			1
, auG	or loss.	-m/G	,,aJG	n. C	-aiG		-mG
0.6.5.3	Exposure	-based requiren	nents	NK TEST	NK TEST		N/A
	HOM HOM	600		HOW			Ow.
	With only o	dose-based requi	irements, ca	ause and effect			
	Loculd be fo	ar separated in tir	mo dofyina	the purpose of			1

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		rage or or 70	report No rinz	101000000 OIX
X TESTING	MAKIETING (C)	EN 62368-1	W TESTING	LAK TESTING
Clause	Requirement +	Test	Result - Remark	Verdict
N. A. TESTING	educating users about safe lis addition to dose-based require therefore also put a limit to the a user can listen at.	ements, a PMP shall	WHAT TESTING	O FURN TESTING
KTESTING	The exposure-based limiter (E reduce the sound level not to 150 mV integrated over the pamethodology defined in EN 50 The EL settling time (time from to reaching target output) shall	exceed 100 dB(A) or ast 180 s, based on 0332-3. m starting level reduction	WANTESTING ON	AKTETIVG
WHAT TESTINE	Test of EL functionality is cond 50332-3, using the limits from equipment provided as a pack listening device), the level interest to device and device.	this clause. For kage (player with its egrated over 180 s shall	Manuel Estine	HAW TESTING
HUAK TESTING	standardized connector, the u integrated over 180 s shall be for an analogue interface and for a digital interface.	no more than 150 mV	MARK TESTING	O KLIAN TESTING
AK TES,	NOTE In case the source is ki test signal), the EL may be dis		MURKTES	AKTES TING

10.6.6	Requirements for listening devices (headphones, ea	arphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input	WTESTING	N/A
O HUM	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like	O HUM	
	equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed	MAJAY TESTING	UAKTESTING
W.TESTING	"programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.	HUAKTETING	TING
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	HUAKIL	
10.6.6.2	Corded listening devices with digital input	LOK TESTING	N/A
MIAK TESTIV	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the	WHITE STING	KTESTING (
HUAKTESTING	combination of positions that maximize the measured acoustic output, the $LAeq$, T acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	HUAR TESTING	WAKTESTING
10.6.6.3	Cordless listening devices	Olm	N/A

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				EN 6	2368-1				
Clause	0	F	Requirement +	Test	0	Result -	Remark	0	Verdict
HUAKTESTING	– wi		le, ng and transm e simulation n			0	HUAKTESTING	(a)	UAKTESTING
	whe the – wi devi add	ere an air inte equivalent a ith volume a ice (for exan itional sound	e cordless tran erface standar acoustic level; nd sound sett nple, built-in v d features like	rd exists that and ings in the rolume level equalization	eceiving control, n, etc.) set to	O MAK			TING.
WANTESTING	mea prog outp	asured acou gramme sim		the above r the <i>L</i> Aeq, <i>T</i>	mentioned	O m.	WAY TESTING	● HU	WTESTING
10.6.6.4	Mea	asurement in a surements 32-2 as app	shall be made	in accorda	nce with EN				N/A
3			the whole d	ocument	1000	6.20		0000	N/A
TES	Del	ete all the "c	country" notes	in the refere	ence documen	t according t	o the following	list:	™ N/A
	MIN (B)	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	JK TE	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	1	
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	NH M	IX TESTING
	100	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	- P	
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	-	N TESTING
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	9)	Om.
	D HIL	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	JK TE	TING
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2		-STING
	6	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NHO.	IK TEO
	-	Y.4.5	Note						
		V TESTING		y TESTING	y TESTIN	,	W TESTING		V TESTING
	Mod	dification to	Clause 1	Dr.	and Pare		100		N/A

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		. ago oo o	Troport Ito.	11112 10 1000000 011
AKTESTII.	IG WAY TESTING	EN 62368-1	TESTING WEST	UG UAK TESTING
Clause	Requireme	nt + Test	Result - Remark	Verdict
1	Add the following note:	,\G	3/4	N/A
	NOTE Z1 The use of cert and electronic equipment see Directive 2011/65/EU	is restricted within the	17	MAKTESTING OF THE STREET

5	Modification to 4.Z1		N/A
4.Z1	Add the following new subclause after 4.9:	(a) (b)	N/A
	ESTING	TESTING	
	To protect against excessive current, short-circuits	THAK TE	
	and earth faults in circuits connected to an a.c. mains,	(I)	ESTING (
	protective devices shall be included either as integral	HAKTES .	N. T.
	parts of the equipment or as parts of the building		
	installation, subject to the following, a), b) and c):		
	a) except as detailed in b) and c), protective devices		
	necessary to comply with the requirements of B.3.1		.G
	and B.4 shall be included as parts of the equipment;	TESTINE	TESTINE
	b) for components in series with the mains input to the	HILAR.	MAR
	equipment such as the supply cord, appliance coupler,		
	r.f.i. filter and switch, short-circuit and earth fault	a)G	
	protection may be provided by protective devices in	V TESTING	
	the building installation;	HUAN	TIME
	c) it is permitted for pluggable equipment type B or	HUANCIA	
	permanently connected equipment, to rely on	(I)	
Die	dedicated overcurrent and short-circuit protection in	TESTING	
	the building installation, provided that the means of	HUAK I	
	protection, e.g. fuses or circuit breakers, is fully	W CITING	TESTING (
	specified in the installation instructions.	WAX TES	Mr.
	If reliance is placed on protection in the building		
	installation, the installation instructions shall so state,		
	except that for pluggable equipment type A the		. G
	building installation shall be regarded as providing	TESTITUE	TESTING
HUAR	protection in accordance with the rating of the wall	HUAN	UAIR
6	socket outlet.		
0	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause:	MAKTE	∞ [©] N/A
	WEST.	O THE SALE OF THE	
	The requirement for interconnection with external	HOW	
NG	circuit is in addition given in EN 50491-3:2009.	TING	
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39:	(ING	N/A
MAK TES	HIAK IL	HAKTES	I W/A
	For additional requirements, see 10.5.1.	9 9	

	8	Modification to 10.5.1	N/A	
--	---	------------------------	-----	--

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X TESTING	LAK TESTINE (III)	EN 62368-1	W TESTING	LAK TESTING
Clause	Requiremen	nt + Test	Result - Remark	Verdict
10.5.1	Add the following after the	e first paragraph:	me	N/A
	For RS 1 compliance is chunder the following conditi			MARK TEST
	object such as a tool or a cadjustments or pre-sets w reliable manner, are adjust radiation whilst maintaining h, at the end of which the	ne outside by hand, by any coin, and those internal which are not locked in a sted so as to give maximum g an intelligible picture for 1 measurement is made.		HAKTESTING
		ed by means of a radiation area of 10 cm², at any point		WAY TESTING
	conditions causing an incr	ture is maintained for 1 h, at		HAKTESTINE
	For RS1, the dose-rate sh account of the background	all not exceed 1 µSv/h taking d level.		ang @
HUAKTESTING	NOTE Z2 These values as 96/29/Euratom of 13 May		HUAKTESTING	HUNKTESTING
9	Modification to G.7.1			N/A
G.7.1	Add the following note: NOTE Z1 The harmonized corresponding to the IEC of Annex ZD.			N/A

600	242	260	
10	Modification to Bibliography		N/A

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Verdict N/A
N/A JAK TESTING
JAK TESTING
MAKTESTING ()
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NK TES .	EN 62368-1	TES NAKTESTI	MAKTES
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom To the end of the subclause the following is adde	ed (ESTING	N/A
HUAN	The torque test is performed using a socket-outle complying with BS 1363, and the plug part shall I assessed to the relevant clauses of BS 1363. Als see Annex G.4.2 of this annex	et be	O LANG
5.2.2.2 ©	Denmark After the 2nd paragraph add the following:	TAK TESTING	N/A
MAKTESTIV	A warning (marking safeguard) for high touch cur is required if the touch current exceeds the limits 3,5 mA a.c. or 10 mA d.c.		HILLY TESTING
5.4.11.1 and	Finland and Sweden		N/A
Annex G	To the end of the subclause the following is adde	ed:	LAKTESTING
	For separation of the telecommunication network from earth the following is applicable:	₩. ING	
	If this insulation is solid, including insulation form part of a component, it shall at least consist of either • two layers of thin sheet material, each of which	0 m	NY TESTING
	 shall pass the electric strength test below, or one layer having a distance through insulation at least 0,4 mm, which shall pass the electric strength test below. 	of white the same	HUNTESTING (
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances a creepage distances do not exist, if the componer passes the electric strength test in accordance we the compliance clause below and in addition	nt ESTING	O LAN TESTING
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplie 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 		HU & TESTING
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of kV. 		WAY TESTING

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	EN 62368-	TESTINE W		
Clause	Requirement + Test	Result - Re	emark	Verdict
HUAKTESTING	capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384	HIM TEST IS	KTESTING	MAKTESTING
	14:2005, may bridge this insulation under the following conditions:	THIS HUNTEST		TING
	 the insulation requirements are satisfied by having a capacitor classified Y3 as defined be 60384-14, which in addition to the Y3 testing tested with an impulse test of 2,5 kV defined 5.4.11; 	i, is		TESTING (
	the additional testing shall be performed on a test specimens as described in EN 60384-14			HU W.
AKTESTING	the impulse test of 2,5 kV is to be performed be the endurance test in EN 60384-14, in the sequ of tests as described in EN 60384-14.		KTESTING	JAK TESTING
5.5.2.1	Norway	(a)	0	N/A
	After the 3rd paragraph the following is added:	TING HUANTEST		STING
	Due to the IT power system used, capacitors ar required to be rated for the applicable line-to-lin voltage (230 V).			TE
5.5.6	Finland, Norway and Sweden	THE HUAKTES		N/A
	To the end of the subclause the following is add	led:		HUNKTESTILL
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipme type A shall comply with G.10.1 and the test of G.10.2.			TING.
5.6.1	Denmark	UAK TEST	Y. I.E.I.	N/A
	Add to the end of the subclause Due to many existing installations where the so outlets can be protected with fuses	cket-		TESTING
	with higher rating than the rating of the socket- outlets the protection for pluggable equipment type A shall be an integral part of the equipment.	HUAN TESTING		
	Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	pe (S)		HUN TESTING
5.6.4.2.1	Ireland and United Kingdom			N/A
	After the indent for pluggable equipment type the following is added: — the protective current rating is taken to be 1 this being the largest rating of fuse used in the	NY TEST		MAKTESTING
TING	mains plug.		_m G	

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* TESTIN	EN 62368-1	N. TESTING	AK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
5.6.4.2.1	France After the indent for pluggable equipment type A, the following is added:	ST NG	N/A
AK TESTING	 in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. 	WAKTESTING	THE
5.6.5.1	To the second paragraph the following is added:	O HUAKT	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	NE HUM TESTING	W TESTING
5.6.8	Norway	Why. Oh	N/A
HUAKTESTING	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	STAG HURK TESTING	NAKTESTING
5.7.6	Denmark	TNG	N/A
AK TES I	To the end of the subclause the following is added:	HUAKTEST	STING
NG (The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	WALESTING WHOME	
5.7.6.2	Denmark	INC ON THE STATE	N/A
HUMANIL	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	O HUMELL O H	3388
5.7.7.1	Norway and Sweden	STATE	N/A
HUAN	To the end of the subclause the following is added: The screen of the television distribution system is	O HUBER	MAR
NK TESTING	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	WAY TESTING WAY	EETING
-STIN	cable distribution system.	NE HUNKTESTING	TESTING (
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	WHITE WE	772
HUAKTESTING	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:	A HAVE LEELING	MAKTESTING

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Y TESTING	EN 62368-1	TESTING TESTING	LAK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTIVE	"Apparatus connected to the protective earthing the building installation through the mains connection or through other apparatus with a connection to protective earthing –	of AMARTESTING	WAY TESTING
	and to a television distribution system using coarcable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain	ING WILLIAM TES	HUNKTE
	frequency range (galvanic isolator, see EN 6072 11)" NOTE in Nanyay, due to regulation for CATV	8- MAKTESTING	HU WIESTING
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator sprovide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will a be accepted in Norway):	1,5	Unit TESTING
	"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	(a) 100	HUAKTETING
	galvanisk isolator mellom apparatet og kabel-TV nettet."	TESTING OF HUAKTESTING	MI W TESTING
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jord vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa medföra risk för brand. För att undvika detta skal anslutning av apparaten till kabel-TV nät galvanis isolator finnas mellan apparaten och kabel-TV nätet.".	fall li vid	WAY TESTING
3.5.4.2.3	United Kingdom	0,11	N/A
	Add the following after the 2nd dash bullet in 3rd paragraph:	HUAKTESTING	-G #
	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	TESTIN OF HUAKTESTING	O HUNTESTING
B.3.1 and	Ireland and United Kingdom		N/A
B.4	The following is applicable:	AKTESTNIS HUAKTESTING	JAK TESTING
	To protect against excessive currents and short- circuits in the primary circuit of direct plug-in	(ii)	

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Y TESTING	AN TESTING (DE)	EN 62368-1	W. TESTING	MAK TESTING (C)
Clause	Requirement ·	+ Test	Result - Remark	Verdict
HUAKTESTING	equipment, tests according t B.4 shall be conducted using circuit breaker complying wit rated 32A. If the equipment of tests, suitable protective dev an integral part of the direct	g an external miniature th EN 60898-1, Type B, does not pass these vices shall be included a plug-in equipment, until	STING	WAY TESTING
0.40	the requirements of Annexes Denmark	s B.3.1 and B.4 are met	M. W. W. C. L.	N/A
G.4.2	To the end of the subclause	the following is added:	STING	HUAN
	Supply cords of single phase rated current not exceeding with a plug according to DS	13 A shall be provided	NO MAKTETING	MAKTESTING (
	CLASS I EQUIPMENT provi with earth contacts or which in locations where protection is required according to the provided with a plug in accor sheet DK 2-1a or DK 2-5a.	are intended to be used against indirect contact wiring rules shall be		MAKTESTING
	If a single-phase equipment CURRENT exceeding 13 A of equipment is provided with a this plug shall be in accordar sheets DK 6-1a in DS 60884	or if a polyphase a supply cord with a plug nce with the standard	HUANTESTING	HUAKTETING
	Mains socket outlets intende Class II apparatus with a rate be in accordance DS 60884- sheet DKA 1-4a.	ed current of 2,5 A shall		HULLY TESTINE (I)
	Other current rating socket compliance with Standard Slor DKA 1-1c.		THE HUAKTESTING	MUAKTESTING
AKTESTING	Mains socket-outlets with ea compliance with DS 60884-2 Standard Sheet DK 1-3a, Dk or DK 1-7a	2-D1:2011	A HUNK TESTING	HANTETING
'n	Justification: Heavy Current Regulations,	Section 6c	HUAN TESTINE	THE SHIP
G.4.2	United Kingdom To the end of the subclause	HUAKTESTI HUAKTES	WAK TES IN	N/A
HAKTESTING	The plug part of direct plug-i assessed to BS 1363: Part 1 12.11, 12.12, 12.13, 12.16, a the test of 12.17 is performe 125 °C. Where the metal ear	I, 12.1, 12.2, 12.3, 12.9, and 12.17, except that d at not less than	MAK'TES	O MAKTESTING

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OK TESTING	"IANTESTINE" W	EN 62368-1	THE WESTING	IAK TESTING
Clause	Requirement + Test	(i)	Result - Remark	Verdict

	•	
Insulated Shutter Opening Device (ISOD), the		
requirements of clauses 22.2 and 23 also apply.	NG CTING	CTING
United Kingdom	MAKTES	N/A
	(a) (b)	
To the first paragraph the following is added:		
TESTING	TESTING	
	HUAK	STING
	WAK'T	
	(a)	
	ESTING	
	THE HUAK IL	
	O .	TESTING (
	"IAK TESS IN	The Land
regulations.	0	
NOTE "Standard plug" is defined in SI 1768:1994		
	NG TING	TING
Ireland	LAKTES	N/A
	O Ho.	() 1 1 // 1
To the first paragraph the following is added:		
ESTING	-ESTING	1
Apparatus which is fitted with a flexible cable or cord	THURK TE	TING
	O	
	ESTING	
	THE HUAK IL	
- C1, 1995, - C1,	O. STING	TESTING W
	IIIAY TESS	1/4 10
ireland and United Kingdom	9	N/A
To the first paragraph the following is added:		
A power supply cord with a conductor of 1.25 mm ² is	ic Ting	TING
	JAK TES	JAK TES
up to and including 13 A.	O Hr.	
	United Kingdom To the first paragraph the following is added: 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. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. Ireland To the first paragraph the following is added: 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 Adapters 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 Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm2 is allowed for equipment which is rated over 10 A and	requirements of clauses 22.2 and 23 also apply. United Kingdom To the first paragraph the following is added: 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. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. Ireland To the first paragraph the following is added: 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 Adapters 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 Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm2 is allowed for equipment which is rated over 10 A and

-C-13	23,	23	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A

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W.TESTING	I LAK TESTING	EN 62368-1	W TESTING	MAK TESTING
Clause	Requiremen	t + Test	Result - Remark	Verdict
10.5.2	Germany The following requirement a	applies:	S HUAK TESTING	N/A
	the display of visual images	ding 40 kV, authorization is type	WHATTESTING	HUNKTE TING
	Justif. German ministerial decree (Röntgenverordnung), in fo 2002-07-01, implementing 96/29/EURATOM.	orce since	MAKTESTING MAKTESTING	OH WIESTING
WAYTESTING	NOTE Contact address: Physikalisch-Technische Bundesa Braunschweig, Tel.: Int+49-531-592-6320, Interne	anstalt, Bundesallee 100, D-38116 et: http://www.ptb.de	S HANTESTING	LAN TESTING

IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN) ZD N/A

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NK TESTIN'	JAKTESTING PHOTOSTA	EN 62368-1	ETING WEETING	. 11	JAK TESTING
Clause	Requirement + Test		Result - Remark	.	Verdict

		Type of flexible cord Code designations			N/A
HUAKTESTING		,	IEC	CENELEC	WAKTESTING
0	(3)	PVC insulated cords	1		_
KTESTING		Flat twin tinsel cord	60227 IEC 41	H03VH-Y	TING
e unu	W. F.	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	,
TESTING		Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	V TESTING
WHITE IT	N. O.	Rubber insulated cords			Ale.
		Braided cord	60245 IEC 51	H03RT-F	
TING		Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	TNG
HUAKTESI	200	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	MAKTESTA
) JG	98	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
W.TESTING		Cords having high flexibility	•	•	TING
HUA	KT.	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	5.
NG C		Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 ₹V4-H	
TING		Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	ESTING (
O HUNKTED	N. Carlot	Cords insulated and sheathed with halogen- free thermoplastic compounds			77K I
TING		Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	-m/G
HUAKTESI		Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	WAKTEST
TING			.63	p	1

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-Appendix 2: Photo document.



Photo 1: Overall view



Photo 2: Overall view

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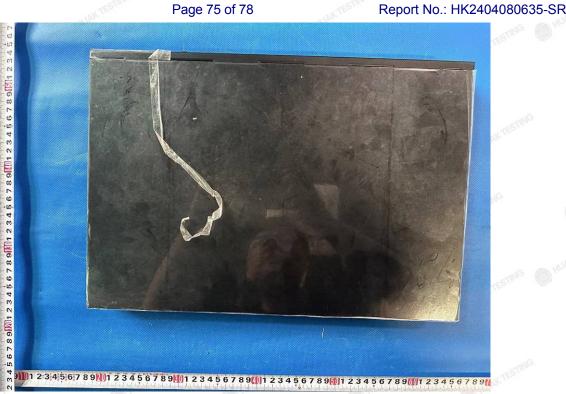


Photo 3: Overall view

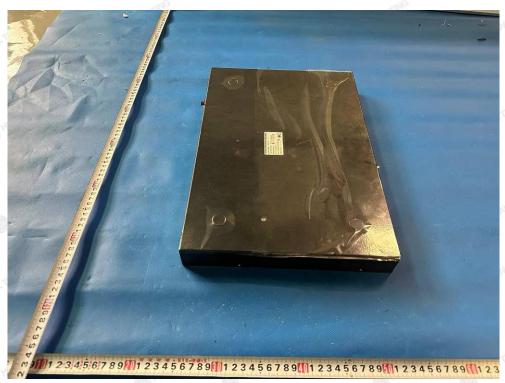


Photo 4: Overall view

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Photo 5: Overall view



Photo 6: Overall view

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Photo 7: Overall view



Photo 8: Internal view

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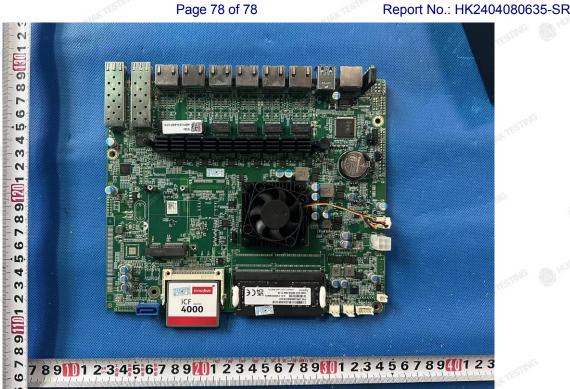


Photo 9: PCB view



Photo 10: PCB view



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