

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: Wireless Access Point Trade Name: Xontel Model Name: XT-5400AX Date of Test: Apr. 08, 2024 to Apr. 10, 2024 Date of Report: Apr. 10, 2024 Report Number: HK2404081609-1SR

Prepared By :

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TEST REPORT EN 62368-1

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

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Report Number:	HK2404081609-1SR	HUAKTL	HUAK
Date of issue:	2024-04-10		
Total number of pages:	78 pages		
Applicant's name:	XonTel Technology Trd. Co. W.L.L	HC.	WAKTESTIN
Address:	Kuwait City, Qibla, Aladel Tower, F21,	state of Kuwait	
Test specification:	Strange HUAK	TES'	
Standard	EN IEC 62368-1:2020 + A11:2020		
Test procedure:	CE-LVD		
Non-standard test method	N/A		
Test Report Form No:	IEC62368_1C	.16	ЪG
Test Report Form(s) Originator :	CE(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	Wireless Access Point
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-5400AX
Ratings:	DC Input: 12VDC, 2A POE Input: 48VDC, 0.5A

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IE: PB

Testing Laboratory:	Shenzhen HUAK Testi	na Technology Co	l td
Testing location/ address:	1-2/F., Building B2, Jui Innovation Park, Hepin Shenzhen, Guangdong	nfeng Zhongcheng Z g, Fuhai Street, Bao	Zhizao
Associated Testing Laboratory:		TESTING	
Testing location/ address	HUAKTESTING	O HUNRIS	HUAKTESTING
Fested by (name + signature):	Paco Zhang	Paco 2h Dend	ang
Approved by (name + signature)	Dendi Wei	Dend.	Inel
Testing procedure: TMP/CTF Stage 1:	W. TESTING	WK TESTING	INK TESTING
Testing location/ address	O m	O mu	O HUN
Tested by (name + signature)	STAG	HUAKTEST	STING
Approved by (name + signature)	HUANCE	0	HUAROL
Testing procedure: WMT/CTF Stage 2:		JN ^L	TING
Testing location/ address:	O HUAN TE	O HUAK TES IN	O HUNK TC
Tested by (name + signature)			
Witnessed by (name + signature) :	TESTING	TESTING	TESTING
Approved by (name + signature):	O HUMA	O HUAN	O HUMA
Testing procedure: SMT/CTF Stage 3 or 4:	IN TESTING	O HUAK TESTIN	I DAY TESTING
Testing location/ address:	0	INCLESING	9
Tested by (name + signature)	NG KTESTING	TESTING	W TESTING
Nitnessed by (name + signature)	O HUM	C HUAR	OHUM
Approved by (name + signature)			
Supervised by (name + signature)		.0	

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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. (6 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 Wireless Access Point Model: XT-5400AX DC Input: 12VDC, 2A POE Input: 48VDC, 0.5A



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ESTING ON TESTING WITH THE WAY TESTING
: 🖸 end product 🛛 built-in component
: 🖾 Ordinary person 🖾 Children likely present
Instructed person
Skilled person
: AC mains DC mains
\square not mains connected:
ES1 ES2 ES3
: +10%/-10%
□ +20%/-15%
+%/%
None
: D pluggable equipment type A -
non-detachable supply cord
appliance coupler
direct plug-in
pluggable equipment type B -
non-detachable supply cord
appliance coupler
permanent connection
mating connector
⊠ other:
: Location: Duilding equipment
□ N/A : ⊠ movable □ hand-held □ transportable
☐ direct plug-in ☐ stationary ☐ for building-in
wall/ceiling-mounted SRME/rack-mounted
other:
OVC IV Souther:
: Class I Class II Class III
Not classified other:
: N/A restricted access area
outdoor location other:
: D PD 1 D 2 D 2
: 25°C 🔲 Outdoor: minimum °C
: 🛛 IPX0 🗌 IP
: 🗆 TN 🛛 TT 🔍 IT V L-L
\boxtimes not AC mains
: 🛛 2000 m or less 🗌 m
: 🛛 2000 m or less 🗌 m

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POSSIBLE TEST CASE VERDICTS:	TESTING OKTESTING	TESTING	OK TESTING
- test case does not apply to the test object	: N/A	O HUM	O HOL
- test object does meet the requirement	: P (Pass)		
- test object does not meet the requirement	: F (Fail)	.a.G	De.
GENERAL REMARKS:	ANAL TESTIN	WAKTESTIN	WAK TESTIN
"(See Enclosure #)" refers to additional info "(See appended table)" refers to a table appe		report.	0
Throughout this report a Comma / point The related applicable OSM decisions have		(12) P	und fulfilled
Determination of the test result includes co equipment and methods.	onsideration of measurem	ent uncertainty fr	rom the test
Manufacturer's Declaration per sub-clause 4.	.2.5 of IECEE 02:	I LAK TESTING	HUAKTES
The application for obtaining a CB Test Certification includes more than one factory location and a declaration from the Manufacturer stating that th sample(s) submitted for evaluation is (are) representative of the products from each factory been provided	Not applicable		
When differences exist; they shall be identified	ed in the General product	information section	on.
Name and address of factory (ies)	: Same as manufactu	irer	HUAKTESTING
GENERAL PRODUCT INFORMATION:			
Product Description – The products are Wireless Access Point to be in External enclosure is plastic material, the plastic		components mount	ed on PWB,
,,,,,,,			

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OVERVIEW OF EMPLOYED SAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed	ES1: Input terminal	N/A	N/A	N/A
Ordinary; Instructed	ES1: Internal circuits	N/A	N/A	N/A
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	PS1: All internal circuits	N/A	N/A	N/A
7.1	Injury caused by hazardous	Injury caused by hazardous substances		
Body Part	Energy Source (hazardous material)	Safeguards		
(e.g., skilled)		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed; Skilled	MS1: sharp edges and corners	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
Ordinary person	RS1: LED	N/A	N/A	N/A

(1) See attached energy source diagram for additional details.

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

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ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

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101	MART	IN ALA	140	NJPIT .
Clause	Requirement + Test	0.	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		P
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.	STANG
4.1.2	Use of components	See table 4.1.2	Р
4.1.3	Equipment design and construction	No accessible part which could cause injury	AKTES P
4.1.4	Specified ambient temperature for outdoor use (°C)		N/A
4.1.5	Constructions and components not specifically covered	restine	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	HUAN	N/A
4.4.3.1	General	N TESTING	N/A
4.4.3.2	Steady force tests:	(See Clause T.3, T.4, T.5)	N/A
4.4.3.3	Drop tests	HUAK TE O H	N/A
4.4.3.4	Impact tests:		N/A
4.4.3.5	Internal accessible safeguard enclosure and barrier tests	resting wresting	N/A
4.4.3.6	Glass Impact tests:	(See Clause T.9, Annex U)	N/A
4.4.3.7	Glass fixation tests	STING	N/A
Kin	Glass impact test (1J)	HUNKIL	s ^{on O} N/A
4.4.3.8	Thermoplastic material tests:	(See Annex T.8)	N/A
4.4.3.9	Air comprising a safeguard:	(See Annex T)	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	O HUNCLE OH	N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion	No explosion	P
4.5.1	General	(See Annex M for batteries)	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	N/A
HUM	No harm by explosion during single fault conditions	(See Clause B.4)	N/A
4.6	Fixing of conductors	HUAKTESTIC	N/A
	Fix conductors not to defeat a safeguard	HUAK	N/A
10	Compliance is checked by test	(See Clause T.2)	N/A
4.7	Equipment for direct insertion into mains socket - outlets	STANG HUNS	N/A
4.7.2	Mains plug part complies with the relevant standard	See below	N/A
4.7.3	Torque (Nm):	alan alan	N/A
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.1	General		N/A
4.8.2	Instructional safeguard	UNKTESTING	N/A
4.8.3	Battery compartment door/cover construction	Not such construction	N/A
NG (Open torque test	STING	N/A
4.8.4.2	Stress relief test	ANG HUNK IS	N/A
4.8.4.3	Battery replacement test	AN AN TESTING	N/A
4.8.4.4	Drop test	(See Clause T.7)	N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test	TESTING WTESTING	N/A
4.8.5	Compliance	O ton O	N/A
rESTING	30N force test with test probe	TESTING	N/A
14-14-14-14-14-14-14-14-14-14-14-14-14-1	20N force test with test hook	HUARI	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	TESING OF	N/A
4.10	Component requirements	STING HUAN	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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5	ELECTRICALLY-CAUSED INJURY		P
5.2	Classification and limits of electrical energy	sources	P
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
IEC623	368_1C	STING HUAKTE	STING

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	TESTING	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:	No such audio signals with the EUT	N/A
5.3	Protection against electrical energy sources	STARS CONTESTING	TESP
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		Р
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	TESTING HUAK TESTING	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	-5m ⁶	Р
h.	Accessibility to outdoor equipment bare parts	HUNK	s ^{on N} /A
5.3.2.2	Contact requirements	O HUMAN	N/A
10	Test with test probe from Annex V:	KTESTING	N/A
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):	HUAKTE	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals intended to be used by ordinary person.	N/A
5.4	Insulation materials and requirements	- STING	N/A
5.4.1.2	Properties of insulating material	HUDACIL	N/A
5.4.1.3	Material is non-hygroscopic		N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table)	STA STA
5.4.1.5	Pollution degree:	Pollution degree 2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2	N/A
5.4.1.5.3	Thermal cycling	Pollution degree 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions	0	N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage:	-STING -STING	N/A
5.4.1.9	Insulating surfaces	FULL	N/A

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EN 62368-1 Clause **Result - Remark** Requirement + Test Verdict 5.4.1.10 Thermoplastic parts on which conductive metallic See below N/A parts are directly mounted 5.4.1.10.2 Vicat softening temperature: (See appended table 5.4.1.10.2) N/A 5.4.1.10.3 Ball pressure: (See appended table 5.4.1.10.3) N/A 5.4.2 N/A Clearances 5.4.2.1 General requirements N/A Clearances in circuits connected to AC Mains, N/A Alternative method 5.4.2.2 Procedure 1 for determining clearance N/A Temporary overvoltage 5.4.2.3 Procedure 2 for determining clearance N/A 5.4.2.3.2.2 a.c. mains transient voltage: 5.4.2.3.2.3 d.c. mains transient voltage: 5.4.2.3.2.4 External circuit transient voltage..... 5.4.2.3.2.5 Transient voltage determined by measurement ...: 5.4.2.4 Determining the adequacy of a clearance using an N/A electric strength test 5.4.2.5 Multiplication factors for clearances and test N/A voltages: 5.4.2.6 (See appended table 5.4.2.6) N/A Clearance measurement: 5.4.3 Creepage distances: (See appended table 5.4.3) N/A 5.4.3.1 General N/A 5.4.3.3 Material Group IIIb 5.4.3.4 N/A Creepage distances measurement: (See appended table 5.4.3) 5.4.4 N/A Solid insulation 5.4.4.1 General requirements N/A 5.4.4.2 Minimum distance through insulation: (See appended table 5.4.4.2) N/A 5.4.4.3 Insulation compound forming solid insulation N/A 5.4.4.4 N/A Solid insulation in semiconductor devices 5.4.4.5 Insulating compound forming cemented joints N/A 5.4.4.6 Thin sheet material N/A 5.4.4.6.1 General requirements N/A 5.4.4.6.2 Separable thin sheet material N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material	TESTING ON TESTING	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	UNKTEST	N/A
5.4.4.7	Solid insulation in wound components	- HURK T	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
HUAKTESTIN	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		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	resming resming	N/A
5.4.5.3	Insulation resistance (MΩ):	O HUM	N/A
MG	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)	s ^{mic} N/A
5.4.7	Tests for semiconductor components and for cemented joints	w TESTING	N/A
5.4.8	Humidity conditioning	STING O HUN	N/A
HUAKTE	Relative humidity (%):	HUAKTE	
w.	Temperature (°C):		
	Duration (h):		
5.4.9	Electric strength test:	(See appended table 5.4.9)	N/A
5.4.9.1	Test procedure for a solid insulation type test	() ⁽⁾	N/A
5.4.9.2	Test procedure for routine tests	STING	N/A
5.4.10	Protection against transient voltages between external circuit	HUART HUART	STIME 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	NG HUNKTL	N/A
5.4.10.2.1	General	STA WARTSTING	N/A
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	TESTING MAKTESTING	N/A
5.4.11	Separation between external circuits and earth	0	N/A

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NKTESTA	EN 62368-1	and testing out	AK TES
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1	Exceptions to separation between external circuits and earth	resting resting	N/A
5.4.11.2	Requirements	C HUM	N/A
Old	Rated operating voltage U _{op} (V):	Bin	
K TEST	Nominal voltage U _{peak} (V):	- HUAN TESS	
	Max increase due to variation U _{sp} :	HUAK	
NG	Max increase due to ageing ΔU_{sa} :	-csTNG	
5.4.11.3	Test method and compliance:	(See appended table 5.4.9)	N/A
5.4.12	Insulating liquid	TIAL TESTING	N/A
5.4.12.1	General requirements	0	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:	O HUMAN	N/A
5.5	Components as safeguards		
5.5.1	General	MARTEST	N/A
5.5.2	Capacitors and RC units	HUAKT	N/A
5.5.2.1	General requirement	STING	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	O HULAR O H	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	TESTING	N/A
5.5.7.2	Use of an SPD between mains and protective earth	HUN T	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	STARE WARK TESTRES	N/A
()	RCD rated residual operating current (mA):		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	TESTING TESTING	N/A
5.6.2.1	General requirements	O HUNK !!	N/A
5.6.2.2	Colour of insulation		N/A

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NKTEST	EN 62368-1	EST. CONTESTIN	AKTEST
Clause	Requirement + Test	Result - Remark	Verdict
5.6.3	Requirement for protective earthing conductors		N/A
ANK TESTING	Protective earthing conductor size (mm ²)	TESTIN'S	
-NG	Protective earthing conductor serving as a reinforced safeguard		N/A
KTES	Protective earthing conductor serving as a double safeguard	e munerte	N/A
5.6.4	Requirement for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors	AUDICTES IS	N/A
TEST	Protective bonding conductor size (mm ²)	STREE CONTRACTOR	
5.6.4.2	Protective current rating (A) :	O NUM O IN	
5.6.5	Terminal size for connecting protective earthing conductors (mm):		N/A
5.6.5.1	Terminal size for connecting protective bonding conductors (mm):	Institute HUAK TESTING	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system	S NAKTESTIN	N/A
5.6.6.1	Requirements	UT HUAKT	N/A
5.6.6.2	Test Method	(See appended table 5.6.6)	N/A
5.6.6.3	Resistance (Ω) or voltage drop:	(See appended table 5.6.6)	N/A
5.6.7	Reliable connection of a protective earthing conductor	MAN TES IN	N/A
5.6.8	Functional earthing		N/A
-siG	Conductor size (mm ²):	Bin Dia	N/A
UUAK TESTIN	Class II with functional earthing marking	TEST.	N/A
0.	Appliance inlet cl & cr (mm)		N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	Figure 4 of IEC 60990 was used in determining of the limit of ES1.	N/A
5.7.2.1	Measurement of touch current	-STING	N/A
5.7.2.2	Measurement of prospective touch voltage	THE HUAR	N/A
5.7.3	Equipment set-up, supply connections and earth connections	NHANTESTIN ON	N/A
5.7.4	Unearthed accessible parts	(See appended table 5.7.4)	N/A
5.7.5	Earthed accessible conductive parts	(See appended table 5.7.5)	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	HUNK TEST	N/A
all	Protective conductor current (mA)	-NG	N/A

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NK TESTIN	EN 62368-1	ESTING ON TESTING	LAK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
- G	Instructional Safeguard	ðe	N/A
5.7.7	Prospective touch voltage and touch current due to external circuits	TESTIN MURANTESTIN	N/A
5.7.7.1	Touch current from coaxial cables	Bin	N/A
5.7.7.2	Prospective touch voltage and touch current from external circuits	HUAKTESI	s ^{nuc} N/A
5.7.8	Summation of touch currents from external circuits	TESTING OT	N/A
NETESTIN	a) Equipment with earthed external circuits Measured current (mA):	STING MADE WATESTING	N/A
O Hom	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	0	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
IAK TESTING	Mains terminal ES	(See appended table 5.8)	N/A
	Air gap (mm)	0 0	N/A

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6	ELECTRICALLY- CAUSED FIRE		STING P
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	STING HON TING	N/A
6.2.3.1	Arcing PIS:	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and	l abnormal operating conditions	N/A
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)	N/A
TESTING	Combustible materials outside fire enclosure	No such materials used.	N/A
6.4	Safeguards against fire under single fault conditions	S HUAA	P
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	TING HUAKTESTING	Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	NUMETES IN ON	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:	(See appended table B.4)	N/A
HUAK TESTIC	Special conditions for temperature limited by fuse	TEST. HUAK TEST.	N/A
6.4.4	Control of fire spread in PS1 circuits	0.0	Р

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WAK TEST	EN 62368-1	E	AKTL
Clause	Requirement + Test	Result - Remark	Verdict
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards:	Approved fire enclosure used	N/A
6.4.6	Control of fire spread in PS3 circuit	0	N/A
6.4.7	Separation of combustible materials from a PIS	-STING	N/A
6.4.7.2	Separation by distance	HUAR	s ^{wo} N/A
6.4.7.3	Separation by a fire barrier	O ¹⁰⁰	N/A
6.4.8	Fire enclosures and fire barriers	ak resince	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	STING OFFIC	N/A
6.4.8.2.1	Requirements for a fire barrier	HUALTER	N/A
6.4.8.2.2	Requirements for a fire enclosure		N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	-STING	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		N/A
6.4.8.3.3	Top openings and properties	No opening	N/A
	Openings dimensions (mm):	O THE REAL PROPERTY	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	un restrice	N/A
NIAK TESTING	Flammability tests for the bottom of a fire enclosure:	STING OPPO	N/A
6.4.8.3.5	Side openings and properties	<u> </u>	N/A
	Openings dimensions (mm):		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	ESTING WAX TESTING	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 enclosure used	N/A
6.4.9	Flammability of insulating liquid:	HUAKTE	sm ^G N/A
6.5	Internal and external wiring	nur.	N/A
6.5.1	Requirements	TESTING	N/A
6.5.2	Requirements for interconnection to building wiring	STING HUAR	N/A
6.5.3	Internal wiring size (mm ²) for socket-outlets:	O HUM O H	N/A
6.6	Safeguards against fire due to connection to additional equipment	(See Annex Q.)	N/A

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INJURY CAUSED BY HAZARDOUS SUBSTANCES

N/A

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10.		10.)P**
Clause	Requirement + Test	Result - Remark	Verdict
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N/A
7.3	Ozone exposure	O HUM	N/A
7.4	Use of personal safeguards (PPE)	Bin	N/A
TEST	Personal safeguards and instructions	HUAKTES	
7.5	Use of instructional safeguards and instructions	HUAK .	N/A
3	Instructional safeguard (ISO 7010)	-smile	
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	P
8.3	Safeguards against mechanical energy sources	() ^{n.} ()	N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	P
8.4.1	Safeguards	O HOL	Р
9	Instructional Safeguard	UNKTESTIN	Р
8.4.2	Sharp edges or corners	STARS OF THE	TISTP [®]
8.5	Safeguards against moving parts	HUAK I. OH	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	<u> </u>	N/A
HUAKTESTING	MS2 or MS3 part required to be accessible for the function of the equipment	resting wak resting	N/A
3	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional Safeguard :	A TESTING	_
8.5.4	Special categories of equipment comprising moving parts	C HUNK T	N/A
8.5.4.1	General	A TESTING	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	STILE OHOM THE	N/A
8.5.4.2.1	Protection of persons in the work cell	HUAKTER	N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	TESTING AN TESTING	N/A
8.5.4.2.3	Emergency stop system	O Normal Contraction of the second se	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
TESTING	Maximum stopping distance from the point of activation (m):	ESTING TESTING	N/A
	Space between end point and nearest fixed mechanical part (mm):	O HUM	N/A
8.5.4.2.4	Endurance requirements	N TESTING	N/A
	Mechanical system subjected to 100 000 cycles of operation	O HUNK T	N/A
G	- Mechanical function check and visual inspection	N TESTING	N/A
erm	- Cable assembly	STING O HON	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	O HUAKTE OF	N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts :	-STING -STING	N/A
8.5.4.3.3	Disconnection from the supply	HUAK	N/A
8.5.4.3.4	Cut type and test force (N):		N/A
8.5.4.3.5	Compliance	WAR TESIN	N/A
8.5.5	High Pressure Lamps	O' HIANT	N/A
ſG	Explosion test:	-STING	N/A
8.5.5.3	Glass particles dimensions (mm)	ING HUARTS	N/A
8.6	Stability of equipment	UNA TESTING	N/A
8.6.1	Product classification	0. O.	N/A
	Instructional Safeguard:		_
8.6.2	Static stability	-STING	N/A
8.6.2.2	Static stability test	C HUAK	N/A
8.6.2.3	Downward Force Test	- Bin	N/A
8.6.3	Relocation stability test	- UVAKTESI"	N/A
	Wheels diameter (mm):	C HUAK	
ß	Tilt test	-STING	
8.6.4	Glass slide test	ING HUAN .	N/A
8.6.5	Horizontal force test (Applied Force):	UNAL TESTING	N/A
8.7	Equipment mounted to wall or ceiling	Q	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface):	Star Star	N/A
8.7.2	Direction and applied force:	TES	N/A
)	Test 1, additional downwards force (N):	0 0	N/A

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NKTESTI	EN 62368-1	NY TESTIN	AKTES
Clause	Requirement + Test	Result - Remark	Verdict
TESTING	Test 2, number of attachment points and test force (N):	ESTING TESTING	N/A
HUPP	Test 3 Nominal diameter (mm) and applied torque (Nm)	O ^{num} O	N/A
8.8	Handles strength	ok TESTING	N/A
3.8.1	Classification	O HOM	N/A
3.8.2	Handle strength test		N/A
	Number of handles	- WAKTESTIN	N/A
TESTIN	Force applied (N)	TING TESTING	N/A
3.9	Wheels or casters attachment requirements	O HUNT O H	N/A
3.9.2	Pull test		N/A
3.10	Carts, stands and similar carriers	ala ala	N/A
3.10.1	General	UAKTESIN'	N/A
3.10.2	Marking and instructions	0. 0	N/A
3.10.3	Cart, stand or carrier loading test and compliance	TESTING	N/A
	Loading force applied (N)	O HUAN	_
3.10.4	Cart, stand or carrier impact test	0 ****	N/A
3.10.5	Mechanical stability	JAKTESTIN	N/A
restin	Force applied (N)	STING CONTRACTING	_
3.10.6	Thermoplastic temperature stability	A HUARDE OF	N/A
3.11	Mounting means for rack mounted equipment		N/A
3.11.1	General	ale de	N/A
3.11.2	Requirements for slide rails	EST. UAKTEST.	N/A
	Instructional Safeguard	0. 0	N/A
3.11.3	Mechanical strength test	TESTING	N/A
3.11.3.1	Downward force test, force (N) applied:	HUAN	N/A
3.11.3.2	Lateral push force test	a O ^{wor}	N/A
3.11.3.3	Integrity of slide rail end stops	NAK TESTING	N/A
3.11.4	Compliance	STING OF HU	N/A
3.12	Telescoping or rod antennas	A HUAK TE	N/A
Ŷ	Button/Ball diameter (mm)	<u> </u>	_

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AKTESTI	EN 62368-1		
Clause	Requirement + Test	Result - Remark	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		Р
9.5.1	Equipment safeguard		Р
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

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10	RADIATION		STING P
10.2	Radiation energy source classification	- HUAA	Р
10.2.1	General classification	RS1	Р
10	Lasers:	TING HUM	STITE O
HUAKTES	Lamps and lamp systems:	HUAKTES	AKIL
S.	Image projectors:		
	X-Ray:		
AK TESTING	Personal music player	TESTING AKTESTING	AK TESTING
10.3	Safeguards against laser radiation	0,000	N/A
K TESTING	The standard(s) equipment containing laser(s) comply:	I LAK TESTING	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)	LED	P
10.4.1	General requirements	UAK TESTING	N/A
HUAKTESTING	Instructional safeguard provided for accessible radiation level needs to exceed	STAND WILL TESTAND	N/A
I A A A A A A A A A A A A A A A A A A A	Risk group marking and locati		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures	TESTAT	N/A
	UV radiation exposure:	(See Annex C)	N/A

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INK TESTIN	WAYTESIN	EN 62368-1	AN TESTING	NAK TEST. V
Clause	Requiremen	nt + Test	Result - Remark	Verdict
10.4.3	Instructional safeguard		êr, êr	N/A
10.5	Safeguards against X-radia	ation	ESTIM	N/A
10.5.1	Requirements		0	N/A
TESTING	Instructional safeguard for s	skilled persons:	TESTING	N/A
10.5.3	Maximum radiation (pA/kg)		(See appended tables B.3 & B.4)	N/A
10.6	Protection against acoustic	c energy sources	in O Hu	N/A
10.6.1	General	1975) 1	MAKTESTIN	N/A
10.6.2	Classification	CSTING TE	TING OF THE	N/A
HUAK	Acoustic output LAeq,T, dB	3(A):	HUAR .	N/A
e la	Unweighted RMS output vo	oltage (mV):		N/A
	Digital output signal (dBFS)):	A. A.	16
10.6.3	Requirements for dose-bas	sed systems	ESTIM	N/A
10.6.3.1	General requirements)	0	N/A
10.6.3.2	Dose-based warning and a	utomatic decrease	TESTING	—
10.6.3.3	Exposure-based warning a	nd requirements	O HUM	« —
G. (30 s integrated exposure le	vel (MEL30):	-mG	_
	Warning for MEL \geq 100 dB((A):	HUAK TESS	N/A
10.6.4	Measurement methods	WAX TESTING	IN CONTRACTING	N/A
10.6.5	Protection of persons	0 0	0	
	Instructional safeguards	:		N/A
10.6.6	Requirements for listening earphones, etc.)	devices (headphones,	ESTING HUAK TESTING	-
10.6.6.1	Corded listening devices wi	ith analogue input	0.0	N/A
TESTING	Listening device input volta	ge (mV):	AKTESTING	—
10.6.6.2	Corded listening devices wi	ith digital input	O HUM	<
6	Max. acoustic output LAeq,	,T, dB(A):	STING	—
10.6.6.3	Cordless listening devices	.G.	ING HUAKTER	
INK TESTING	Max. acoustic output LAeq,	,T, dB(A)	WIESING	_

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Clause	Requirement + Test	Result - Remark	Verdict
В	NORMAL OPERATING CONDITION TESTS, ABN CONDITION TESTS AND SINGLE FAULT COND		P
B.1	General	C HUAN	P P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal Operating Conditions	UNX TEST	P
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Р
200	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	N/A
B.2.3	Supply voltage and tolerances	- HUAN TESS	N/A
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)	N/A
B.3.2	Covering of ventilation openings	C tube	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	WTESTING	N/A
B.3.6	Reverse battery polarity	STING HUN	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	NUM TES OF	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	Р
B.4	Simulated single fault conditions	TESIMO	P
B.4.2	Temperature controlling device open or short- circuited	(See appended table B.4)	N/A
B.4.3	Motor tests	HUNKTEST	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation	- HUAN TES	N/A
B.4.4.1	Short circuit of clearances for functional insulation	STIME C	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	O Hora O H	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	-stine -stine	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	O HUAN THE	N/A

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	EN 62368-1		
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 MAKTESTING	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	0 ¹¹ 0	Р
B.4.9	Battery charging under single fault conditions :	WARTES	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	autor restrice	N/A
C.1.2	Requirements	STANG OF TESTING	N/A
C.1.3	Test method	HUAN OH	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	Die Die	N/A
C.2.2	Mounting of test samples	TEST MARTEST	N/A
C.2.3	Carbon-arc light-exposure apparatus	0.0	N/A
C.2.4	Xenon-arc light exposure apparatus	TESTING	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	0 ¹¹⁰	N/A
D.2	Antenna interface test generator	and testing	N/A
D.3	Electronic pulse generator	STING OFF	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio signals		N/A
16	Maximum non-clipped output power (W):		
	Rated load impedance (Ω)	TESTING UNKTESTING	
0	Open-circuit output voltage (V):	0, 0	
TESTING	Instructional safeguard	See Clause F.5	
E.2	Audio amplifier abnormal operating conditions	HUAN	N/A
6	Audio signal source type	16 O ^{HD}	N/A
	Audio output power (W)	HUM TESTAN	—
NAK TESTIN	Audio output voltage (V)	STATESTING ON TESTING	_
O mun	Rated load impedance (Ω)	0,,,,,,,,,0,,,	_
	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	INSTRUCTIONAL SAFEGUARDS	P
F.1	General requirements		Р

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTING	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	WAKTES IN	TING P
F.2.1	Letter symbols according to IEC60027-1	C HUAN	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	num resting	Р
F.3	Equipment markings	esting 0 "	TESTP
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	TESTING	N/A
F.3.3.2	Equipment without direct connection to mains	HUAT	STING P
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:	HUAN OF	
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	TESTIN ANALTESTIN	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	0 ° ° 0	N/A
F.3.5.2	Switch position identification marking	HUNKTES .	N/A
F.3.5.3	Replacement fuse identification and rating markings	and hunce	N/A
F.3.5.4	Replacement battery identification marking :	HUAK TEST.	N/A
F.3.5.5	Terminal marking location	STING TESTING	N/A
F.3.6	Equipment markings related to equipment	O HOLE O P	N/A
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal	TESTING	N/A
F.3.6.1.2	Neutral conductor terminal	O MAR O	N/A
F.3.6.1.3	Protective bonding conductor terminals	Blac	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.6.2	Class II equipment (IEC60417-5172)		N/A
3.6.2.1	Class II equipment with or without functional earth	TISTING AKTISTING	N/A
3.6.2.2	Class II equipment with functional earth terminal marking	O mut	N/A
3.7	Equipment IP rating marking	IPX0	
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
3.10	Test for permanence of markings	Complied	P
4	Instructions		Р
STING	a) Information prior to installation and initial use	- STING	P
HUAKIL	b) Equipment for use in locations where children not likely to be present	C HARTL C	MUMAR P
TEST	c) Instructions for installation and interconnection	HLANTTES IN	STING P
3	d) Equipment intended for use only in restricted access area	NG HUNKTESTING	N/A
HUAKTESTIN	e) Equipment intended to be fastened in place	HUN TESTING	N/A
~	f) Instructions for audio equipment terminals		N/A
HUAKTESTING	g) Protective earthing used as a safeguard	TESTING HUAK TESTING	N/A
TESTING	h) Protective conductor current exceeding ES2 limits	LAX TESTING	N/A
	i) Graphic symbols used on equipment	O WAY	P
KTESTIN	j) Permanently connected equipment not provided with all-pole mains switch	STING AUARTESING	N/A
O HORE	k) Replaceable components or modules providing safeguard function	O.,	N/A
HUAKTESTING	I) Equipment containing insulating liquid	ESTING WANTESTING	N/A
G	m) Installation instructions for outdoor equipment	and a second sec	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		N/A
G.1	Switches		N/A
G.1.1	General requirements	HUAKTES	N/A
G.1.2	Ratings, endurance, spacing, maximum load	Contract of the second	N/A
G.1.3	Test method and compliance	STING	N/A
G.2	Relays	THE HUNK	N/A
G.2.1	General requirements	ANY 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	A THUR THE	N/A
G.3.1	Thermal cut-offs		N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	HUAKTESTIN	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	resting hum	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	STING HUNG	N/A
G.3.2	Thermal links	HUM OF	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	Dia Dia	N/A
JUAK TESTIN	Aging hours (H)	TEST.	
	Single Fault Condition	0.0	
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	o G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	O HAR TESSE	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	-mile	N/A
G.4.1	Spacings	HUAN TEST	N/A
G.4.2	Mains connector configuration		N/A

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EN 62368-1 **Result - Remark** Clause Requirement + Test Verdict G.4.3 Plug is shaped that insertion into mains socket-N/A outlets or appliance coupler is unlikely G.5 **Wound Components** N/A G.5.1 Wire insulation in wound components..... N/A G.5.1.2 a) Two wires in contact inside wound component, N/A angle between 45° and 90° G.5.1.2 b) Construction subject to routine testing N/A G.5.2 N/A Endurance test on wound components G.5.2.1 General test requirements N/A G.5.2.2 N/A Heat run test Time (s): Temperature (°C) G.5.2.3 Wound Components supplied by mains N/A G.5.3 N/A Transformers G.5.3.1 N/A Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1) Position.....: Method of protection: G.5.3.2 N/A Insulation Protection from displacement of windings...... 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 N/A G.5.3.3.3 N/A Winding Temperatures - Alternative test method G.5.4 **Motors** N/A G.5.4.1 General requirements N/A Position G.5.4.2 **Test conditions** N/A G.5.4.3 Running overload test N/A G.5.4.4 Locked-rotor overload test N/A Test duration (days): G.5.4.5 Running overload test for d.c. motors in N/A secondary circuits G.5.4.5.2 Tested in the unit N/A Electric strength test (V).....

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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)	ESTING ESTING	N/A
HUAR	Electric strength test (V):	O HUAN	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	W TESTING	N/A
G.5.4.6.2	Tested in the unit	O HOM	N/A
G	Maximum Temperature:	and O'	N/A
	Electric strength test (V):	HUAKTES'	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	THUS OF HUAK TESTING	N/A
w.	Electric strength test (V):	W V	N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors	ESTING	N/A
G.5.4.9	Series motors	O HUM	N/A
	Operating voltage:		
G.6	Wire Insulation	HUANTE	sin ^o N/A
G.6.1	General	HUAK	N/A
G.6.2	Solvent-based enamel wiring insulation	TESTING	N/A
G.7	Mains supply cords	TING HUAN	N/A
G.7.1	General requirements	HUNKTESTIN	N/A
0.	Туре	Q. V	
	Rated current (A):		
TESTING	Cross-sectional area (mm ²), (AWG):	ESTING TESTING	—
G.7.2	Compliance and test method	O HUM	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	INTESTING	N/A
G.7.3.2	Cord strain relief	O PL	N/A
G.7.3.2.1	Requirements	and On	N/A
	Strain relief test force (N):	HUANTEST	
G.7.3.2.2	Strain relief mechanism failure	TESTING	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	O HUM O H	
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry	and and	N/A
G.7.5	Non-detachable cord bend protection	EST. HUAKTEST	N/A
G.7.5.1	Requirements	0.00	N/A

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	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.7.5.2	Test method and compliance		
HUAKTESTING	Overall diameter or minor overall dimension, D (mm):	HUAK TESTING	—
Ola	Radius of curvature after test (mm):	NG	
G.7.6	Supply wiring space	- WAKTESTILL	N/A
G.7.6.1	General requirements	HUAK T	N/A
G.7.6.2	Stranded wire	STING	N/A
G.7.6.2.1	Requirements	HUARTE	N/A
G.7.6.2.2	Test with 8 mm strand	IAK TESTADO - HI	N/A
G.8	Varistors	0	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock	NG STING	N/A
G.8.2.1	General	HUANT	N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test	IAK TESTING	N/A
G.9	Integrated Circuit (IC) Current Limiters	O THE STATE	N/A
G.9.1	Requirements	TING	N/A
	IC limiter output current (max. 5A):	HUNK TES	
AKTESTIN	Manufacturers' defined drift	W TESTING	_
G.9.2	Test Program	O Harry O H	N/A
G.9.3	Compliance		N/A
G.10	Resistors	NG TING	N/A
G.10.1	General	HUAKTES	N/A
G.10.2	Conditioning	0	N/A
G.10.3	Resistor test	NY TESTING	N/A
G.10.4	Voltage surge test	O HOLE ALAST	N/A
G.10.5	Impulse test	and Other	N/A
G.10.6	Overload test	- WARTES IN	N/A
G.11	Capacitor and RC units	TESTING	N/A
G.11.1	General requirements	O HUNN O H	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	ale al	N/A
G.12	Optocouplers	LAK TESTIN	N/A

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Result - Remark Clause Requirement + Test Verdict Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option N/A and test results)..... Type test voltage Vini Routine test voltage, Vini,b G.13 **Printed boards** N/A G.13.1 N/A General requirements G.13.2 Uncoated printed boards N/A G.13.3 N/A Coated printed boards G.13.4 Insulation between conductors on the same inner N/A surface Compliance with cemented joint requirements (Specify construction).....: G.13.5 Insulation between conductors on different N/A surfaces N/A Distance through insulation (See appended table 5.4.4.5) Number of insulation layers (pcs): G.13.6 Tests on coated printed boards N/A G.13.6.1 Sample preparation and preliminary inspection N/A G.13.6.2 N/A Test method and compliance G.14 N/A **Coating on components terminals** G.14.1 (See G.13) N/A Requirements G.15 Liquid filled components N/A G.15.1 Requirements N/A G.15.2 N/A Test methods and compliance G.15.2.1 Hydrostatic pressure test N/A G.15.2.2 Creep resistance test N/A G.15.2.3 Tubing and fittings compatibility test N/A G 15.2.4 Vibration test N/A G.15.2.5 Thermal cycling test N/A G.15.2.6 Force test N/A G.15.3 Compliance N/A G.16 IC including capacitor discharge function (ICX) N/A G.16.1 Condition for fault tested is not required N/A N/A ICX with associated circuitry tested in equipment ICX tested separately N/A

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KTESTIN	EN 62368-1	ESTING W	LAK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
G.16.2	Tests		—
HUAKTESTIN	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	HUAN TESTIN	N/A
K TESTING	Mains voltage that impulses to be superimposed on	C KTESTING	_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	O HUMANT	
G.16.3	Capacitor discharge test	TESTING	
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1, WALTER	General	HUANTE	N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal	TESTING	N/A
H.3.1.1	Frequency (Hz)	O HUM	_
H.3.1.2	Voltage (V)	Sim	
H.3.1.3	Cadence; time (s) and voltage (V)	HUANTESI	
H.3.1.4	Single fault current (mA)::	HUARCO	
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	ESTING HUND	N/A
H.3.2.2	Tripping device	Otran Otra	N/A
H.3.2.3	Monitoring voltage (V)		
J	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	P
HUAKTE	General requirements	(See separate test report)	NUAKTEP
К	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		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	N/A
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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MAKTESIN	EN 62368-1	WAX TEST	AKTES
Clause	Requirement + Test	Result - Remark	Verdict
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (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 carrying		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 NiCd batteries		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 external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General requirements		N/A

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NAK TESTIN	EN 62368-1	S. C. MARTESTIN	AKTES
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 Vz (m ³ /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance <i>d</i> (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	ND 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
⁻ .3.1	General requirements		N/A
> .3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
⊃.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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	EN 62368-1	
Clause	Requirement + Test Result - Remark	Verdict
P.4.2	Tests	
	Conditioning, TC (°C):	
	Duration (weeks):	
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	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 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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NK TEST	EN 62368-1	ST. W	WAX TESTIN
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		N/A
T.1	General requirements		N/A
T.2	Steady force test, 10 N	(See appended table T.2)	N/A
Т.3	Steady force test, 30 N	(See appended table T3)	N/A
Т.4	Steady force test, 100 N	(See appended table T4)	N/A
T.5	Steady force test, 250 N	(See appended table T5)	N/A
Т.6	Enclosure impact test	(See appended table T6)	N/A
	Fall test		N/A

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	EN 62368-1		
Clause	Requirement + Test Result - Rer	mark Verdi	lict
	Swing test	N/A	4
T.7	Drop test: (See appended table	T7) N/A	4
T.8	Stress relief test: (See appended table	T8) N/A	4
Т.9	Impact Test (glass)	N/A	4
T.9.1	General requirements	N/A	4
T.9.2	Impact test and compliance	N/A	4
	Impact energy (J)		-
	Height (m):		-
T.10	Glass fragmentation test: (See sub-clause 4.4.4	4.9) N/A	4
T.11	Test for telescoping or rod antennas	N/A	4
	Torque value (Nm):		-
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PRO AGAINST THE EFECTS OF IMPLOSION	OTECTION N/A	4
U.1	General requirements	N/A	4
U.2	Compliance and test method for non-intrinsically protected CRTs	N/A	٩
U.3	Protective Screen (See Annex T)	N/A	4
V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND	WEDGES) N/A	4
V.1	Accessible parts of equipment	N/A	4
V.1.1	General	N/A	4
V.1.2	Surfaces and openings tested with jointed test probes	N/A	4
V.1.3	Openings tested with straight unjointed test probes	N/A	4
V.1.4	Plugs, jacks, connectors tested with blunt probe	N/A	4
V.1.5	Slot openings tested with wedge probe	N/A	4
V.1.6	Terminals tested with rigid test wire	N/A	4
V.2	Accessible part criterion	N/A	4
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INS CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PE RMS)		٦
	Clearance: (See appended table	X) N/A	4
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES	N/A	4
Y.1	General	N/A	4
Y.2	Resistance to UV radiation	N/A	4
Y.3	Resistance to corrosion	N/A	4

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NK TESTIN	EN 62368-1	STITE STITUS	AKTESTI
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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 Clause
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 Verdict

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4.1.2

TABLE: List of critical components

HUAN	HUAN	HUAN	HUAN	HUAN	
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Plastic enclosure	LG CHEM LTD	LUMID GP2251BFH	V-0, 130°C	EN IEC 62368-1	UL E67171 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

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NK 1L	MAR	MALIN MARK	AK7L	MALIN
Clause	Requirement +	Test	Result - Remark	Verdict

5.2	Table: C	lassification of	AKTESTING			P		
5.2.2.2 -	- Steady State	e Voltage and C	urrent conditions					
	Quanta	Location (e.g.		I				
No.	Supply Voltage	circuit designation)	Test conditions	U (V)	l (mA)	Type ¹⁾	Additional Info ²⁾	ES Class
^{%6} 1	DC Input:	All circuits	Normal	12VDC	- TEST	SS SS		
	12VDC	-STING OHUAN	Abnormal	12VDC	O HUM	SS	NG -	ES1
O HUAK	O HUAY	10.	Single fault – SC/OC	12VDC		SS	O HUA	(10
1	POE Input:	All circuits	Normal	48VDC		SS		
-51	so 48VDC	STING	Abnormal	48VDC	š	SS	i	STING
HUAKTES	O ^{HU}	if the	Single fault – SC/OC	48VDC	(SS	O ^H	AKTE

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 v	oltage measureme	nt HUAK		N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
TESTING	TESTING	TESTING	TESTING	16	TING
HUAN	() HUAN	() HUAN	O HUAN	C HUAN	C HUAR

Supplementary information:

5.4.1.10.2	TABLE: Vicat softening temperature of the	ermoplastics	ESTING	N/A
Penetration	(mm):	-TING CHUNK	and	
Object/ Part	t No./Material	Manufacturer/t rademark	T softening (°C)	
supplement	ary information:	Glass	NG	G

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NX TEM	MARIN	OKTE	man	NAK TE		UAK
Clause	0.	Requirement + Test	0.	Result - Remark	K ()	Verdict
5.4.1.10.3	TABLE: Ball pro	essure test of thermop	lastics		6	N/A
Allowed im	pression diameter	(mm)	∶ ≤ 2 mm	NAKTESTI		—
Object/Part No./Material Manufacturer/trac		Manufacturer/trademar	k Test temp	erature (°C) Imp	pression dia	ameter (mm)
NG		BIA		J.G		

Supplementary information:

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							
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)
K TESTING		TESTING	NTE.	TING	W TEST	gC	W TESTING
HUM OHUM	O HUN		C HUM		O HUM	0	HOM

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	TABLE: Mir	nimum distance through	STING OHO	HUAKTESTING	N/A	
Distance the insulation d		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
STING		TING		STING	CTING	STING
A HUAK TEL	HUAKTE	HUAKTE	HUAK	(J)	HUAKTE	HUAKTEL

Supplementary information:

5.4.4.9	TABLE: Solid in	ABLE: Solid insulation at frequencies >30 kHz						N/A
Insulation r	naterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW}	(Vpk)
IN TEST	IG WAKTESTING		LEK TESTING	WAK TESTING	9	TESTING	May	restino (
Supplemen	itary information:	(D HUM	D HO	(HUM	0	

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AKTESTING	MAX TESTICE W	EN 62368-1	NAK TESTING	NIAK TESTING
Clause	Requirement + Test	0.	Result - Remark	Verdict

5.4.9	TABLE: Electric strength tests	K TESTING	KTESTING	N/A
Test voltag	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:	TNG UAKTESTIN	GING	UAK TESTIN	-WG
	C HUNKTES	HUAKTES	• ·	HUAK TEST
Basic/supp	lementary:		TING	9
	HUAK TE	-	HUAK TES	
Reinforced	NO NAKTESTING W	STING UNK TESTING	KTESTING	LAK TESTING
-OHOM	O Home	O "	C-HUM	• ·
- mg	7146	0 - 0		
HUAKTES	HUNGTES	HUAKTED	HUNKTED	HUNKTES
Routine Te	ests:			
K TESTING	C KTESTING		A TEXANO	
Supplemen	ntary information:	HUAKTESTIN	0 "	HUAKTESTIN

5.5.2.2	TABLE: St	ored discharg	ge on capacito	ors	3 OHUM	and	N/A
Supply Vol	tage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	ssification
GING		and	Old		JG	5	MG
UUAK TES I	- HUAK	ES1"	- HUAK TES I	- HUAK TEST	- WAX TES !.		JUAK TES I
0	0	1			0	0	

Supplementary information:

- X-capacitors installed for testing are:
- □ bleeding resistor rating:
- ICX:

Notes:

A. Test Location:

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

B. Operating condition abbreviations:

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

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NK TESTING	WAX TESTING	EN 62368-1	STING WAYTESTING	K TESTING
Clause	Requirement + Test	0	Result - Remark	Verdict

5.6.6	TABLE: Resistance	e of protective condu	ctors and termina	ations	N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
UK TES I.	CTING	HUAKTESI	CTING	- WAKTES	CTING
	HUAKTE	0	HUAKTE	0	HUAKTE
Suppleme	entary information:	ang Star		JAG	w.

5.7.4 TABLE: Unearthed accessible parts							N/A
Location		Operating and	Supply	F	Parameters		ES class
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
HUAKIL	HUAK Y	O HU	at the second	HUAKIL	HUAKIL	O ^H	JOK 12
Supplementary	information		MG		TESTING		

NG

IK PB

5.7.5	TABLE: Earthed acces	arthed accessible conductive part						
Supply volt	tage (V)	WAK TESTING HUAK TESTIN		UAKTESTING	_			
Phase(s)		[] Single Phase; [] Three F	[] Single Phase; [] Three Phase: [] Delta [] Wye					
Power Dist	ribution System							
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ient			
TING		THUG		NG.				
Supplemen	ntary Information:	AKTES STING	HUAKTES		STING			

5.8	TABLE: Backfeed safeguard in battery backed up supplies							
Location		upply age (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
0			. .		0	۵		
Supplementar				-		~		
Abbreviation:	SC= short circuit,	OC= op	en circuit					

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NKTESTING	WAX TESTING	EN 62368-1	IN TESTING	HAK TESTING
Clause	Requirement + Te	est 🔍	Result - Remark	Verdict

6.2.2	Table: Electrica	l power sour	ces	(PS) measurements for	or classification		Р
Source	Description	Measurem	ent	Max Power after 3 s	Max Power after 5 s* ⁾	PS C	assification
		Power (W)	:	3.6			
DC Input	Normal	V _A (V)	:	12.0			PS1
2		I _A (A)	:	0.3			
		Power (W)	:	14.4			
POE Input	t Normal	V _A (V)	:	48.0			PS1
		I _A (A)	:	0.3			

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: Determination	on of Potential Igr	nition Sources (Arc	ing PIS)	N/A	
Location		Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No	
C HUAK	O HUAN	HUAN	O HUAL	HUAN	C HUAT	
-	200	-11/6		- Contraction of the Contraction		

Supplementary information:

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

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	a market		a market			1
		EN 62368-1				
Clause	Requirement + Test	0	Result - Remark	0	Verdict	

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6.2.3.2	Table: Dete	termination of Potential Ignition Sources (Resistive PIS)							
Circuit Lo	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No			
<i>c</i> .	9 m		<u> </u>		0 ***				

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	- WARTESTIN	C HOM	- Wak T	N/A
Descriptio		Values		Energy Source Cl	
Lamp typ	e		HUAK .		
Manufact	urer:	IN HUAK TEST			
Cat no		0		_	
Pressure	(cold) (MPa)			MS_	
Pressure	(operating) (MPa)	STING		MS_	STING
Operating	time (minutes)	HUAK	()	_	
Explosion	method		Ś	_	
Max parti	cle length escaping enclosure (mm) .:	NG	. JAK	MS_	ING
Max parti	cle length beyond 1 m (mm):	HUAKTEST	0	MS_	2
Overall re	sult	0	TING		
Suppleme	entary information:		HUAKTED		

IEC62368_1C

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1 tan	MAR	ngt in	- Hay	m pr
Clause	Requirement	t + Test	Result - Remark	Verdict

9.6	TABLE:	: Tempera	ture measi	urements	for wireles	ss power t	ransmitter	S	N/A	
Supply voltage (\	/)		:		٥.		0.	8		
Max. transmit pov	wer of tr	ransmitter	(W):		and and the states					
					eiver and contact		ver and at of 2 mm	with receiver and at distance of 5 mm		
Foreign objects		Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
HUAK TE	HUAK		HU	KTE	HUAN		HUAKT	0	NAR	
Supplementary in	formatio									

Supplementary information:

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature	e measure	ments	O ^{HU}	AKTESTING	(HUAKTESTIN		UN TES P
K TESTING	Supply voltage (V)	NY TESTING	:	1	2VDC		48VDC		- 10
(A)	Ambient T _{min} (°C)			23.1	25.	0 23.3	3 25.0	Co HUAN TEL	
NG CONTRACTOR	Ambient T _{max} (°C)	ŅG	:	23.8	25.	0 23.6	3 25.0		
Maximum mea	sured temperature T of p	art/at:			·	T (°	C)		Allowe d T _{max} (°C)
PCB				33.1	35.	0 32.9	34.6		130
Plastic enclosu	ire cons	STING	ś.	28.2	30.	1 27.8	3 29.5	š	77
C2 Body	HUAKTE	HUAKTES		29.5	31.	4 29.2	2 30.9	and the second	Ref
Supplementary	information:	2		w.			9		
Temperature T	of winding:	t ₁ (°C)	R ₁ (9	Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class
0	10.		O ⁺	21			- C	O HO.	
Supplementary	information: N/A	1.4-				NK TEST	10-		

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, at the	MALIN	IN THE WAY	A. ANTER AND ANTER AN	IAN
Clause	0.	Requirement + Test	Result - Remark	Verdict

B.2.5	TABLE: Inpu	ut test	JG		- IG		G	Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status
12.0	0.3	2.0	3.6	0		0	Max no	rmal load
48.0	0.3	0.5	14.4			TESCING	Max no	rmal load

B.3, B.4	TAB	LE: Abnorm	al operating o	condition to	ests			-16	On.		Р	
Ambient ter	npera	ture (°C)	- uther TESTIN			:	25°C	if not menti	oned			
Power sour	ce for	EUT: Manuf	acturer, model	/type, outpu	it rating	ESTING	See p	age 2	TESTING			
Componen	t No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currei			Temp. (°C)	0	Observation	
D2		S-C	48VDC	10min		-	-				lo hazard, no broken	
C2		S-C	48VDC	10min		-	-				lo hazard, no broken	
R1		S-C	48VDC	10min		-	-				lo hazard, no broken	
U2	U2 S-C 48VDC 10min						lo hazard, no broken					
Supplemen	itary ir	nformation:	HUAKTE			ыG	HUAK	TE-			6	

M.3	TABLE: P	rotection circu	its for batteri	es provide	ed within	the eq	uipment	N/A		
Is it possible to in	nstall the ba	ttery in a revers	se polarity posi	tion? :			No			
Equipment Sp	ogification			С	harging	ging				
Equipment Sp	ecilication		Voltage (V)				Current (A)			
STING			TING			pecification				
				Battery	specifica	tion				
		Non-recharge	Non-rechargeable batteries Rechargeable batteries							
		Discharging	Unintentional	C	Charging		Discharging	Reverse		
Manufactur	er/type	current (A) charging current (A)		Voltage (age (V) Current (A)		current (A)	charging current (A)		
0		0	~~ (Q			Ø	<u> </u>)		
Note: The tests c	of M.3.2 are	applicable only	when above ap	propriate o	lata is no	t availat	ble.			
Specified battery	temperatur	re (°C)		HUMAN :		O HUA	- (D		
Component No.	Fault	Charge/	Test	Temp.	Current	Voltag	e Obs	ervation		
IEC62368 1C	TING	- WAKTL	•	TING		JUAK TE		TING		

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	and the second s		ASSES Y		
Clause		Requirement + Test	W	Result - Remark	Verdict

	condition	discharge mode	time	(°C)	(A)	(V)	
MAKTESTIN	WAK TESTING	WAKTES	lla	UNAK TESTI		IN LAK TE	UNAK TESTING
	0	0.		9.		0.	

Supplementary information:

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	1.4.2 TABLE: Charging safeguards for equipment containing a secondary lithium battery						N/A
Maximur	Maximum specified charging voltage (V)						
Maximur	n specified chargir	ng current (A)	<u> </u>	:		9	
Highest specified charging temperature (°C):						- Olm	_
Lowest s	pecified charging	temperature (°C)	HOW ISSUE		WAKTESIN	—
Battery manufacturer/type		Operating		Measurement		Observatio	n
		and fault condition	Charging	Charging	Temp.		

current (A)

(°C)

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

voltage (V)

Q.1 restruct	TABLE: Circuits in	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Note: Meas	sured UOC (V) with all	load circuits disc	connected:	O ¹⁴	and the second s	HUAN		
Output	Components	U _{oc} (V)	I _{sc}	I _{sc} (A)		\)		
Circuit			Meas.	Limit	Meas.	Limit		
	HUNKTE	0	HUAKTE	0	HUNK	le.		
5	I A A A A A A A A A A A A A A A A A A A	STING	9	STING				
Supplemen SC=Short o	itary Information:	UAK TE	TING	3 OHUAK I	TESTING	NK TESTING		

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OK TESTING	WAKTESTING W	EN 62368-1	STAR	JAK TESTING
Clause	Requirement + Test	0.	Result - Remark	Verdict

Test Duration (sec)	Observation
. /	
OHUM	MUAK TESTIN
STAIG	0
WAKTEN	
	NUM TESTING

T.6, T.9	TAB	LE: Impact tests				N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)	Obse	rvation
HOM	(D HUM	O HUM	O HUM	O HUM	O HUM
Supplementa	ary inf	ormation:	-6	· · ·	G	

Т.7	TABLE: Dro	p tests		HUAKTEST	0	HUAK	N/A
Part/Locat	ion Ma	terial	Thickness (mm)	Drop Height (mm)		Observation	
V TESTIN	G	no Q	TESTIN	S LAK TESTING	0	" TESTING	AK TESTING
Supplement	ary information	n:	O HUAN	O Ho	0	HUAN OH	

NG

IK PB

T.8 TA	BLE: Stress relief	test	TANG		ANG	N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation
IK TESTING	Dan	MAKTESTIN	TING	WAKTEST		TING
Supplementary i	nformation:		HUAKTES	0	HUAKT	22
		2		2		

X TABLE: A	Iternative method for determini	ing minimum clearanc	es distances N/A
Clearance distanced between	n: Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
Supplementary information:		D	0
Supplementary mornation.			

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NK TES	MAKTL	LIN 02300-	at the lost the second se	JAK IL
Clause		Requirement + Test	Result - Remark	Verdict

-Appendix 1: For requirements of European group differences.

ATTACHI	MENT TO TEST REPORT IEC	62368-1	(B) 10
EUROPEAN GROUP	P DIFFERENCES AND NATION	AL DIFFEREN	CES
(Audio/video, information and cor	nmunication technology equipm	ent Part 1: Safe	ety requirements)
Differences according to	EN IEC 62368-1:2020+A11	:2020	TESTING
Attachment Form No	EU_GD_IEC62368_1C	W	HUAI
Attachment Originator	UL(Demko)		
Master Attachment	2020-03-10		

	CENELEC COMMON MODIFICATIONS (EN)	Р
HUAK TESTING	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".	Pus
57°	Add the following annexes:	N/A
	Annex ZA (normative)Normative references to international publications with their corresponding European publicationsAnnex ZB (normative)Special national conditionsAnnex ZC (informative)A-deviationsAnnex ZD (informative)IEC and CENELEC code designations for flexible cords	KTESTING
1	Modification to Clause 3.	Р
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:	P
1 csmg	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

3.3.19.1	momentary exposure level, MEL	O H	N/A
NUS	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.	HUARTESTING	K TESTING
	Note 1 to entry: MEL is measured as A-weighted levels in dB.		
AN TESTING	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	NK TESTING	AKTESTING

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			Page 53 of 78	Report No.: HK2	404081609-1	SR
NG	TESTING	WAX TESTING	EN 62368-1	W ANTESTIN	3 WAK TEST	lan Q
0	se 🤍	Requirement + Te	est 🔍	Result - Remark	Ve	rdict
sound	3 sour	nd exposure, <i>E</i>			1	N/A
		ighted sound pressure (<i>p</i>) s rated over a stated period o		MUNCTESTING	O NUNK TE	
Note 1	Note	1 to entry: The SI unit is Pa	a ² s.	TESTING		
E =	E :	$= \int_{0}^{T} p(t)^2 dt$		Onun	HUAN TESTING	
		0 A TESTING		IN TESTING		
sound	4 sour	nd exposure level, SEL		O HD.	3	N/A
referen	refer	ithmic measure of sound exerce value, <i>E0</i> , typically the hold of hearing in humans.		MUAK TEST	Omaria	
Note 1 in dB.		1 to entry: <i>SEL</i> is measured.	d as A-weighted levels	B HUNKTESTING	KUNKTE	
CEL	CEI	-101-(E)				
SEL =	SEL	$h = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$		MAKTESTING	ang	
		2 to entry: See B.4 of EN 5 ional information.	50332-3:2017 for	O THE	HUAN TEST	
digital	5 digit	al signal level relative to f	full scale, dBFS	HUAKTES	1	N/A
level, 0 Hz sine positive	level Hz s posit	s reported in dBFS are alwa , 0 dBFS, is the level of a do ne wave whose undithered ive digital full scale, leaving esponding to negative digita	c-free 997- positive peak value is the code	U HUAK TESTIN	o mikitist	
levels.	level	1 to entry: It is invalid to us s. Because the definition of e wave, the level of signals	full scale is based on	HUNG TESTING	O KUNKTE	
lower t	lowe parti	r than that of a sine wave m cular, square wave signals r	nay exceed 0 dBFS. In	HUM TESTING	N LOUS TESTING	
Modifie	Mod	ification to Clause 10		<i>2</i> ³	1	N/A
-		guards against acoustic en ace 10.6 of IEC 62368-1 with			3	N/A
	100	duction	Alt THE IN AUGUSTES	HUAK RESTA	MUNTED.	N/A
term ex levels f the ear for ear person	term level the e for e perse	guard requirements for pro- exposure to excessive sour s from personal music playe ar are specified below. Req arphones and headphones onal music players are also	nd pressure ers closely coupled to uirements intended for use with covered.	NO HUMCTESTING	O PUNKTE	
levels f the ear for ear person A perso	for e	s from personal music playe ar are specified below. Req arphones and headphones	ers closely coupled to uirements intended for use with covered.	NG NUMETESTING	01	JAK TE

IEC62368_1C

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		AK TESE	N 62368-1			
ause	Requ	uirement + Test	0	Result - Remark	0	Verdict
	intended for use by	an ordinary perso	n, that:			
	resting	-STING	resting	-c5TING		TESTING
		ow the user to lister	n to audio or	HUNKTL		UAKTL
	audiovisual content	10000 V	debance or	0		
	 uses a listening of earphones that can 			aNG		
	around the ears; an			IAK TEST.		NG
	- has a player that	can be body worn		O HO		2.0
	suitable to be carrie					
	is intended for the u continuous use (for			TESTING		
	in a subway, at an a		σι,	HUAK		G
	in a sabiray, at an e	anport, otor).		TEST		K TESTING
	EXAMPLES Portab			HUAN		
	mobile phones with similar equipment.	MP3 type features	, PDAs or			
	Personal music play	vers shall comply w	ith the	Dim		MG
	requirements of eith			UAK TESTIN		JAK TESTIN
				0.		
	NOTE 1 Protection			ъG		
	from telecom applic P.360.	ations is referenced	10110-1	AKTESTING		- G
	1.000.			HUM		LUM
	NOTE 2 It is the inte					
	the alternative meth	nods for now, but to	only use the	STING		
	dose measurement meth	od as given in 10.6	5 in futuro	HUAKTL		
	Therefore, manufac			CO TEST		K TESTING
	implement 10.6.5 as		O HUM	O HUAK I		3
	Listening devices so	old separately shall	comply with the			
	requirements of 10.					
	These requirements	s are valid for music	or video mode	TESTING		TESTING
	only. The requirements d	lo not apply to:		HUAR		UAR
	- professional equip	oment;		w.		
				TESTING		
	NOTE 3 Profession			HUAKIL		TING
	through special sale through	es channels. All pro	ducts sold			
	normal electronics s	stores are considere	ed not to be	OVIG		
	professional equipm			"IAK TEST"		
	STING OF		STING	O HO		ESTING (
	 hearing aid equips assistive listening; 	ment and other dev	ices for	WAK TES.		K IL
	- the following type	of analogue persor	nal music	O. tr		
	players:					
	 long distance radio 					
	multiband radio rec		radio	TESTING		TESTING
	receiver, an AM radcassette player/red			HUAK		UAR
	ousselle player/le					1

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MAK TES	MAKTL	EN 6236	D-1	MAK TES.	MALIN	11-
Clause	Requirement -	⊦ Test		Result - Remark	0	Verdict
HUANTESTING	NOTE 4 This exemption has this technology is falling out that within a few years it will no lo exemption will not be extend	of use and it is ex onger exist. This	cpected	HUAKTESTING	O '''	AKTESTING
	 a player while connected to does not allow the user to wa while in use. 		olifier that		D HUAN TEST	
	For equipment that is clearly primarily for use by children, relevant toy standards may a The relevant requirements a EN 71-1:2011, 4.20 and the measurement distances app	the limits of the apply. re given in related tests met	NAKTESTING		s (nuk	
10.6.1.2	Non-ionizing radiation from the range 0 to 300 GHz		ies in	AK TESTING		N/A
	The amount of non-ionizing in European Council Recomment 12 July 1999 on the limitation general public to electromag GHz).	endation 1999/519 n of exposure of t netic fields (0 Hz	9/EC of he to 300		O HUAKTEST	
HUAK TESTING	For intentional radiators, ICN taken into account for Limitir Varying Electric, Magnetic, a (up to 300 GHz). For hand-h devices, attention is drawn to 50566.	ng Exposure to Til and Electromagne eld and body more	me- etic Fields unted	HUAK TESTING	o nuk	resmi ^G
10.6.2	Classification of devices w	ithout the capao	city to estimation	ate sound dose		N/A
10.6.2.1	General		HUAKTESTING		10	N/A
	This standard is transitioning (30 s) requirements to long-t requirements. These clauses devices that do not comply w as stipulated in EN 50332-3.	erm based (40 ho s remain in effect vith sound dose e	our) only for		a max rest	
	For classifying the acoustic of measurements are based or equivalent sound pressure le	the A-weighted	eriod.		3	
		HUP!	(long		O HU	
	For music where the average term <i>L</i> Aeq, <i>T</i>) measured over is lower than the average pro- simulation noise, measurement the duration of the complete becomes the duration of the	r the duration of to oduced by the pro- ents may be done song. In this case	he song ogramme e over		- 10 ¹	

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Clause Requirement + Test Result - Remark Verdict Uppically has an average sound pressure (long term LAeq. 7) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare It with the programme simulation noise. Therefore, if the player is capable to analyse the content and compare It with the programme simulation noise. Therefore, if the player is capable to analyse the content and compare It with the programme simulation noise. Therefore, if the player is capable to analyse the content and compare It with the programme simulation noise. The average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 88 dB. N/A 10.6.2.2 RS1 is a class1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection. It. E. LAeq. 7 acoustic output shall be \$2 BY of when playing the fixed 'programme simulation noise' described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be \$2 TwV (analogue interface) or -25 ders (digital interface) when playing the fixed 'programme simulation noise' described in EN 50332-1. - The RS1 limits will be updated for all devices as per 10.6.3.2. N/A RS2 is a class 2 acoustic energy source that does no	K TESTING	ANTESTING THE	EN 62368-1	C TESTING	UAK TESTIN	0
LAeq.7) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB. N/A 10.6.2.2 RS1 limits (to be superseded, see 10.6.3.2) N/A RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and listening device, or where the combination of player and listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, 7 acoustic output shall be ≤ 35 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a.3, 5 phone jack) that allows connector in a listening device for general use, the unweighted r ms. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. – The RS1 limits will be updated for all devices as per 10.6.3.2 N/A RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and istening device, or when the	Clause	Requirement + Tes	st	Result - Remark	Vero	lict
For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB. N/A 10.6.2.2 RS1 limits (to be superseded, see 10.6.3.2) N/A RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, T acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connection to a listening device for general use, the unweighted r ms. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connection to a listening device, or when the combination of player and listening devices as per 10.6.2.3 N/A RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the LAeq, T acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" a described in EN	HUAKTESTING	LAeq, T) which is much lower tha programme simulation noise. The capable to analyse the content at programme simulation noise, the need to be given as long as the a pressure of the song does not ex	n the average erefore, if the player is nd compare it with the warning does not average sound		UNITEST	NG
RS1 is a class 1 acoustic energy source that does not exceed the following:	NG HUM TESTING	simulation noise to 85 dB, but the of the song is only 65 dB, there is warning or ask an acknowledgen average sound level of the song limit of 85 dB.	e average music level s no need to give a nent as long as the is not above the basic	HANTESTING HANTESTING	Martistan	3 O MUI
 exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i>Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. The RS1 limits will be updated for all devices as per 10.6.3.2. 10.6.2.3 RS2 limits (to be superseded, see 10.6.3.3) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i>Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation and its listening device. The player and its listening device is known by other means such as setting or automatic 130 detection, the <i>L</i>Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation and its listen ing device is a known by other means such as setting or automatic and the combination of player and its listening device, or when the combination of player and its listening device, or when the combination of player and its listening device is a known by other means such as a setting or automatic 130 detection, the <i>L</i>Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme	10.6.2.2		-		N/	A
the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, T acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. - The RS1 limits will be updated for all devices as per 10.6.3.2. 10.6.2.3 RS2 limits (to be superseded, see 10.6.3.3) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device is known by other means such as setting or automatic 130 detection, the LAeq, T acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3.5 phone jack) that allows connector to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV		exceed the following: – for equipment provided as a pa listening device), and with a prop	ckage (player with its rietary connector	UNACTESTING	O PUAK TEST	NG
 for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. The RS1 limits will be updated for all devices as per 10.6.3.2. 10.6.2.3 RS2 limits (to be superseded, see 10.6.3.3) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device is known by other means such as setting or automatic 130 detection, the <i>L</i>Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connector for a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV 		the combination of player and list known by other means such as s detection, the <i>L</i> Aeq, <i>T</i> acoustic of when playing the fixed "programm	tening device is setting or automatic utput shall be ≤ 85 dB	HUAKTESTING	HUNKTESTING	(
- The RS1 limits will be updated for all devices as per 10.6.3.2. N/A 10.6.2.3 RS2 limits (to be superseded, see 10.6.3.3) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i>Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV 150 mV		– for equipment provided with a sconnector (for example, a 3,5 ph connection to a listening device f unweighted r.m.s. output voltage (analogue interface) or -25 dBFS when playing the fixed "programmed"	one jack) that allows or general use, the shall be ≤ 27 mV s (digital interface)	HUAK TESTING	Makinsing	3 O ^{NU}
10.6.2.3 RS2 limits (to be superseded, see 10.6.3.3) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the LAeq, T acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV		- The RS1 limits will be updated	for all devices as per	S NAKTESTING	IAKTEST	ING
exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be \leq 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be \leq 150 mV	10.6.2.3	(200), (1) (200), (1)	see 10.6.3.3)	© ^m	N/	'A
between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the LAeq, T acoustic output shall be \leq 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be \leq 150 mV		exceed the following: – for equipment provided as a pa	ackage (player with its	O HUNKTESTING	HUAKTESTING	
130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV		between the player and its listeni the combination of player and list	ng device, or when tening device is	HUM TESTING	STIN	3 O ^{HUI}
connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV		130 detection, the LAeq, T acoust 100 dB(A) when playing the fixed simulation noise" as described in – for equipment provided with a s	tic output shall be ≤ f "programme EN 50332-1. standardized	HUANTES	C HURETL	
when playing the fixed "programme simulation noise"		connection to a listening device f unweighted r.m.s. output voltage (analogue interface) or -10 dBFS	or general use, the shall be $\leq 150 \text{ mV}$ (digital interface)	UNAKTISTING	O PUAKTEST	NG

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AK TESTIN	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	as described in EN 50332-1.		
10.6.2.4	RS3 limits	WANTESTING	N/A
1 he will	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	0 ^m 0	
10.6.3	Classification of devices (new)	UAK TEST	N/A
10.6.3.1	General	O HU ANY	N/A
NG (TESTIN	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings New limits, compliant with The Commission Decision of 23 June 2009, are given below.	HUNKTESTING OT	KTESTING
10.6.3.2	RS1 limits (new)	O HUME O H	N/A
HAKTESTING	RS1 is a class 1 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is	WAX TESTING	PUNKTESTING
NCTESTING	known by other means such as setting or automatic detection, the LAeq, T acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized	NUARTESTING	ennic
HUNKTESTIN	connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be \leq 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	HUNTEST	UKTESTING
10.6.3.3	RS2 limits (new)	in and	N/A
HUAKTESTING	RS2 is a class 2 acoustic energy source that does not exceed the following: – for equipment provided as a package (player with its	0	NUAKTESTIN
NY TESTING	listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as	WANTESTING	e mic
HUAKTESTIN	described in EN 50332-3, shall be \leq 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows	HUNKTESTING	NK TESTING
HUAKTESTING	connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be \leq 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	NO HUAK TESTING	HUAK TESTING
GTING	SUM	STING	1

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AK TESTIN	MAKT	SIT W	EN 62368-1	AK TESTING		AKTEST
Clause	0.	Requirement + Test	0.	Result - Remark	0.	Verdict
).6.4	Requiren	nents for maximum sour	nd exposure			N/A
0.6.4.1	Measure	ment methods	X TESTIN	Y TESTING		N/A
	All volume tests.	e controls shall be turned t	to maximum during	HUAN STING		UAR
		ments shall be made in acc or EN 50332-2 as applicab		O HUNCLE		SUNG
).6.4.2		on of persons		- Olympic - Olym	Y	N/A
	parts acc persons	s given below, protection re essible to ordinary perso and skilled persons are g /olume control is not consi	ons, instructed given in 4.3.	HUAKTESTING		KTESTING
	safeguar	d.				
	safeguar safeguar the instru	RS2 and an ordinary per d may be replaced by an i d in accordance with Clau uctional safeguard shall b	nstructional se F.5, except that be placed on the	HUAK TESTING		UNKTESTING
	manual. Alternativ	nt, or on the packaging, or ely, the instructional safe ough the equipment display	eguard may be	HUNGTES		TRUG
		ents of the instructional s	safeguard shall be	HUAKTESTING		
	as follows	\wedge		Lax restrict		AKTESI"
	(2011-01)	t 1a: the symbol (), IE) t 2: "High sound pressure"		O Har		
	wording – elemen	t 3: "Hearing damage risk"	G	HUAKTESTING		UAK TESTING
		t 4: "Do not listen at high v ods." or equivalent wording		TESTING		
		ment safeguard shall pre ary person to an RS2 sou		O HUAR		SUNG
	and shall	al physical action from the automatically return to an g what is specified for an F	output level not	HUNKTESTING		and a
	the power	r is switched off.		HUAKTESTIN		AKTESIN D
	inform the equipmer	oment shall provide a mea e user of the increased sou ht is operated with an output	und level when the ut exceeding RS1.			
	before ac an output	ns used shall be acknowle tivating a mode of operation exceeding RS1. The ackr need to be repeated more	on which allows for nowledgement	HUAKTESTIN		UAK TESTING

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-STING	TESTING O M	EN	62368-1	O THE	G	TESTING O
Clause	Requireme	WONK IL	O mar .	Result - Remark	0"	Verdict
HUAKTESTING	20 h of cumulative listenir NOTE 2 Examples of mea signals. Action from the u	ans include visi		UNACTESTING	0	UAN TESTING
	NOTE 3 The 20 h listenin listening time, independen the personal music player	nt of how often	and how long			ING
	A skilled person shall no to RS3.	ot be unintentio	nally exposed	AKTESTING	0	
0.6.5	Requirements for dose-	based system	S com			N/A
0.6.5.1	General requirements Personal music players sl provided below when test	ed according to		HUAN IL	O HU	N/A
	using the limits from this of The manufacturer may of the users to modify when receive the notifications a	fer optional set and how they nd warnings to	wish to promote a			UAN TESTING
	better user experience wir safeguards. This allows the method that best meets the device usage needs. If su	ne users to be i neir physical ca ich optional set	informed in a pabilities and tings are			ING
	offered, an administrator of restrictions, business/edu shall be able to lock any of specific configuration.	cational admin	istrators, etc.)			K TESTING
	The personal music player to understand explanation management system, the use the system safely. Th that other sources may sin	n to the user of risks involved, le user shall be gnificantly cont	the dose and how to made aware ribute to their			UAN TESTING
	sound exposure, for exan		sportation,			
0.6.5.2	concerts, clubs, cinema, c Dose-based warning an		ts	HUAKTESTING	1	N/A
	When a dose of 100 % C at every 100 % further inc shall warn the user and re In case the user does not	crease of CSD, equire an ackno	the device owledgement.			
	level shall automatically d class RS1. The warning shall at least	lecrease to con	npliance with			KTESTING O
Diama	above 100 % CSD leads	to the risk of he		Diana		Gala
0.6.5.3	Exposure-based require With only dose-based req could be far separated in	uirements, cau				N/A

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AKTESTIN	"JAKT	£9''' W	EN 6236	8-1	NK TES	The	AKTES'
Clause	0	Requirement +	Test		Result - Remark	0	Verdict
HUAKTESTING	addition therefore	g users about safe lis to dose-based require also put a limit to the in listen at.	ements, a PMP	shall	HUAK TESTING	3	UNICTESTING
	reduce th 150 mV i methodo The EL s	osure-based limiter (E ne sound level not to e ntegrated over the pa logy defined in EN 50 ettling time (time from ng target output) shal	exceed 100 dB(ist 180 s, based 332-3. in starting level r	A) or d on reduction			Sung.
	50332-3, equipme listening be 100 d	L functionality is conductive using the limits from nt provided as a pack device), the level inte B or lower. For equip	this clause. For age (player with grated over 180 ment provided v	n its D s shall with a			a testing
	integrate for an an	ized connector, the un d over 180 s shall be alogue interface and tal interface.	no more than 1	50 mV			UAKTESTING
	NOTE In	case the source is kr	own not to be r	munia (or			
		al), the EL may be dis			C HOM	NOK TE	The
					1 HUM	O HOAN TE	- TRUC
0.6.6	test signa		abled.	TES I.	rphones, etc.)	O HUAK TE	N/A
0.6.6	test signa	al), the EL may be dis	abled.	hones, ea	rphones, etc.)	HUNK TE	N/A N/A
	test signa Require Corded With 94 of listening settings i volume le equalization	al), the EL may be dis	abled. levices (headp th analogue in ssure output of volume and sou (for example, b il sound feature ombination of po	hones, ea put the ind ouilt-in s like ositions	rphones, etc.)	nuc nucre	A 19
	test signa Require Corded With 94 c listening settings i volume le equalizat that maxi voltage c "program"	al), the EL may be dis ments for listening c istening devices with the LAeq acoustic presidevice, and with the v n the listening device evel control, additionation, etc.) set to the co	abled. levices (headp th analogue in ssure output of volume and sou (for example, b il sound feature ombination of por coustic output, when playing th	hones, ear put the ind ouilt-in s like ositions the input ne fixed	rphones, etc.)	nuc nucre	A 19
	test signaRequiresCorded IWith 94 collisteningSettings ivolume laequalizatithat maxivoltage collistening50332-1NOTE The	al), the EL may be disc ments for listening of istening devices with the LAeq acoustic prese device, and with the v n the listening device evel control, additionation, etc.) set to the co- mize the measured a of the listening device me simulation noise" shall be \geq 75 mV.	abled. levices (headp th analogue in ssure output of volume and sou (for example, b il sound feature ombination of por coustic output, when playing th as described in d 75 mV corres	hones, ear put the ind puilt-in s like positions the input he fixed h EN	rphones, etc.)		A 19
	test signaRequiresCorded IWith 94 ofIisteningsettings ivolume laequalizatithat maxivoltage of"program50332-1NOTE Thwith 85 d	al), the EL may be disc ments for listening of istening devices with the LAeq acoustic presidevice, and with the vi- n the listening device evel control, additiona- ion, etc.) set to the co- mize the measured a f the listening device me simulation noise" shall be \geq 75 mV.	abled. levices (headp th analogue in ssure output of volume and sou (for example, b il sound feature ombination of por coustic output, when playing th as described in d 75 mV corres dB and 150 mV	hones, ear put the ind puilt-in s like positions the input he fixed h EN	rphones, etc.)		A 19
	test signaRequirerCorded IWith 94 colspan="2">With 94 colspan="2">UseningSettings ivolume laequalizatithat maxivoltage colspan="2">"program50332-1NOTE Thwith 85 doCorded IWith anysimulatiothe volum(for examsound feat	al), the EL may be disc ments for listening of istening devices with dB LAeq acoustic prese device, and with the v n the listening device evel control, additiona- ion, etc.) set to the co- mize the measured a f the listening device me simulation noise" shall be \geq 75 mV. The values of 94 dB an B and 27 mV or 100 of istening device playing n noise" described in ne and sound settings aple, built-in volume lea atures like equalization	abled. levices (headp th analogue in ssure output of volume and sou (for example, b l sound feature ombination of po coustic output, when playing th as described in d 75 mV corres dB and 150 mV th digital input g the fixed "pro EN 50332-1, ar s in the listening evel control, add in, etc.) set to th	phones, ear put the und puilt-in s like positions the input he fixed h EN pond gramme nd with g device ditional he	rphones, etc.)		N/A
	test signaRequirerCorded IWith 94 clisteningsettings ivolume laequalizatthat maxivoltage c"program50332-1NOTE Thwith 85 dCorded IWith anysimulatiothe volum(for examsound featcombinatiacousticlisteningof -10 dB	al), the EL may be discontrol of the even of the eve	abled. levices (headp th analogue in ssure output of volume and sou (for example, b il sound feature ombination of por coustic output, when playing th as described in d 75 mV corres dB and 150 mV th digital input g the fixed "pro EN 50332-1, ar is in the listening evel control, addo in, etc.) set to th naximize the mo- coustic output of the digital input of the digital in	phones, ear put the ind puilt-in s like positions the input he fixed h EN pond gramme nd with g device ditional he easured f the	rphones, etc.)		N/A

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EN 62368-1 Clause **Result - Remark** Requirement + Test Verdict In cordless mode, - with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and - respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and - with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be $\leq 100 \text{ dB}$ with an input signal of -10 dBFS. 10.6.6.4 **Measurement method** N/A Measurements shall be made in accordance with EN 50332-2 as applicable. 3 Modification to the whole document N/A Delete all the "country" notes in the reference document according to the following list: N/A 0.2.1 Note 1 and 2 Note 4 and 5 3.3.8.1 Note 2 1 3.3.8.3 4.1.15 4.7.3 Note 1 Note Note 1 and 2 5.2.2.2 Note 5.4.2.3.2.2 Note c 5.4.2.3.2.4 Note 1 and 3 Table 12 5.4.2.3.2.4 Note 2 5.4.2.5 Note Note 2 5.4.5.1 Table 13 5.4.10.2.1 Note 5.4.10.2.2 Note 5.4.10.2.3 Note 5.5.2.1 Note 5.5.6 Note 5.6.4.2.1 Note 2 and 3 and 4 568 Note 2 5.7.6 Note 5.7.7.1 Note 1 and Note 2 8.5.4.2.3 10.2.1 Note 3 and 4 10.5.3 Note Note 2 and 5 Table 39 10.6.1 Note 3 F.3.3.6 Note 3 Y.4.1 Note Y.4.5 Note 4 **Modification to Clause 1** N/A

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AK TESTING	WAR TESTING	EN 62368-1	OK TESTING	HAK TESTING
Clause	Requirement + T	est	Result - Remark	Verdict
	Add the following note:			N/A
	STING	-STING	NG CSTING	TESTING
	NOTE Z1 The use of certain su		HUAKIL	NAK IL
	and electronic equipment is ressee Directive 2011/65/EU.	stricted within the EU:	0	0
TESTING		06	TESTING	
	Modification to 4.Z1			N/A
.Z1	Add the following new subclau	se after 4.9:		N/A
	STING		STING	
	To protect against excessive cu	urrent, short-circuits	- JUAKTE	
	and earth faults in circuits conn	ected to an a.c. mains	and the second s	STING ()
	protective devices shall be inclu	uded either as integral	OK TEST.	IN MAX TES
	parts of the equipment or as pa	arts of the building	HUM HUM	
	installation, subject to the follow		.	
	a) except as detailed in b) and			
	necessary to comply with the re			
	and B.4 shall be included as pa		JO TING	TING
	b) for components in series with		IAK TES.	LOK TES.
	equipment such as the supply of			(A) V
	r.f.i. filter and switch, short-circu		OWG	
	protection may be provided by	protective devices in	NTES IL	-16
	the building installation;	TESTING	HOM	TESTING
	c) it is permitted for pluggable			A HUAN
	permanently connected equi			
	dedicated overcurrent and shore		TESTING	
	the building installation, provide		- HUAK IL	
	protection, e.g. fuses or circuit	breakers, is fully	O'	CETING (
	specified in the installation instr	ructions.	NK TEST	IN AKTE
	0 ¹¹ 0 ¹		HUM	0
	If reliance is placed on protection	on in the building		
	installation, the installation inst			
	except that for pluggable equi			
	building installation shall be reg		NG STANG	STING
	protection in accordance with the		I LAK TES	A LAK TEL
40.	socket outlet.		OH	O Y
	Modification to 5.4.2.3.2.4			N/A
.4.2.3.2.4	Add the following to the end of	this subclause:	- WAX TEN	N/A
	JAN TES		0	UAK TE
	The requirement for interconne	ction with external		HO
	circuit is in addition given in El	N 50491-3:2009.	TING	
	Modification to 10.2.1			N/A
0.2.1	Add the following to ^{c)} and ^{d)} in	table 39:	CO CONTRACTORIO	N/A
	HUAN		MAK TEA	-HUMA
	For additional requirements, se		ASS HU	

8

Modification to 10.5.1

N/A

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NG

IK PB

N/A

		EN 623	68-1			
Clause	Requireme	ent + Test	Re	esult - Remark	0	Verdict
10.5.1	Add the following after th	ne first paragraph:	-1016	TUNG		N/A
	For RS 1 compliance is c under the following condi		ement			WAKTEST
	In addition to the normal controls adjustable from a object such as a tool or a adjustments or pre-sets of	the outside by hand coin, and those int which are not locked	, by any ernal d in a			TUNG
	reliable manner, are adju radiation whilst maintaini h, at the end of which the NOTE Z1 Soldered joints	ng an intelligible pic e measurement is m	ture for 1 ade.			NY TESTING
	examples of adequate lo The dose-rate is determine	cking.				
	monitor with an effective 10 cm from the outer sur	area of 10 cm ² , at a face of the apparatu	any point JS.			WAKTESTING
	Moreover, the measurem conditions causing an inc provided an intelligible pi the end of which the mea	crease of the high vertice the second s	oltage, for 1 h, at			ING
	For RS1, the dose-rate s account of the backgrour		Sv/h taking			
HUAKTESTING	NOTE Z2 These values a 96/29/Euratom of 13 May		HUAKTESTING	HUAKTESTIN	ic Mu	AK TESTING
9	Modification to G.7.1					N/A
G.7.1	Add the following note:					N/A
HUAKTESTING	NOTE Z1 The harmonize corresponding to the IEC Annex ZD.			HUAKTESTING	0	WAKTESTING

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10 Modification to Bibliography

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NK TES	WAYTESTIC	NK TESE	N 62368-1	AKTEST	NUAK TEST	9
Clause	Requ	uirement + Test	0.	Result - Remark	Vei	dict
	Add the following n	otes for the standa	rds indicated:		N	I/A
	TING					TING
	IEC 60130-9	NOTE Harmoniz	ed as EN 60130-9.		LAK TE	
	IEC 60269-2		ed as HD 60269-2.		(C) IC	
	IEC 60309-1		ed as EN 60309-1.			
	IEC 60364) 384/HD 60364 series.		
	IEC 60601-2-4		ed as EN 60601-2-4		TING	
	IEC 60664-5		ed as EN 60664-5.		I LAK TE	
	IEC 61032:1997		ed as EN 61032:19	98 (not modified)	D HO	
	IEC 61508-1		ed as EN 61508-1.	so (not modifica).		
	IEC 61558-2-1		ed as EN 61558-2-1	1		
	IEC 61558-2-4		ed as EN 61558-2-4 ed as EN 61558-2-4		ST	
	IEC 61558-2-4		ed as EN 61558-2-6 ed as EN 61558-2-6		UNUX TES	
	IEC 61643-1		ed as EN 61643-1.	υ.	0	
	IEC 61643-21		ed as EN 61643-11 ed as EN 61643-21			
	IEC 61643-311		ed as EN 61643-31			
	IEC 61643-311		ed as EN 61643-31 ed as EN 61643-32			
	IEC 61643-321				TE	
	IEC 01043-331	NOTE Harmoniz	ed as EN 61643-33	1.	MALL MAR	
11	ADDITION OF AN	NEXES			Ν	I/A
ZB	ANNEX ZB, SPEC	IAL NATIONAL CO	DNDITIONS (EN)	"LAK TEST"	Jak N	I/A
4.1.15	Denmark, Finland	, Norway and Swe	den	0	THUAK TE	I/A
	To the and of the a	uhalawaa tha fallow	ing is added.		0	
	To the end of the su Class I pluggable					
	connection to other					
		equipment of a	STIL		13	
		ety relies on conne	ction to		"TES "	
	network shall, if saf				HUNTEST	
	network shall, if saf reliable earthing or	if surge suppressor	rs		O HUM TEST	
	network shall, if saf reliable earthing or are connected betw	if surge suppressor	rs erminals and		O HUSTESI	
	network shall, if saf reliable earthing or are connected betw accessible parts, h	if surge suppressor veen the network te have a marking stat	rs erminals and ing that the		O HUKTES!	
	network shall, if saf reliable earthing or are connected betw	if surge suppressor veen the network te have a marking stat	rs erminals and ing that the		AUX TES.	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be	if surge suppressor veen the network te have a marking stat	rs erminals and ing that the		Industres.	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be	if surge suppressor veen the network te have a marking stat connected to an ea	rs erminals and ing that the arthed mains		NUARTES	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet.	if surge suppressor veen the network te have a marking stat connected to an ea	rs erminals and ing that the arthed mains		O RUKTESI.	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in	if surge suppressor veen the network te have a marking stat connected to an ea	rs erminals and ing that the arthed mains		O RUKTESI.	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa	if surge suppresson ween the network te have a marking stat connected to an ea the applicable cou	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en		NUARTES	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord	if surge suppresson ween the network te have a marking stat connected to an ea the applicable cou	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en		MAKTESTING	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord."	if surge suppresson veen the network te have a marking stat connected to an ea the applicable cou aratets stikprop skal d som giver forbind	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en else til		O HUAK TESTING	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark: "Appa stikkontakt med jord stikproppens jord." In Finland: "Laite o	if surge suppressor veen the network te have a marking stat connected to an ea the applicable cou aratets stikprop skal d som giver forbind on liitettävä suojako	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en else til		HUAKTESTING	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord." In Finland : "Laite o varustettuun pistora	if surge suppressor veen the network te have a marking stat connected to an ea the applicable cou aratets stikprop skal d som giver forbind on liitettävä suojakos asiaan"	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en else til skettimilla		HUARTEETING	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord." In Finland : "Laite of varustettuun pistora In Norway : "Appara	if surge suppressor veen the network te have a marking stat connected to an ea the applicable cou aratets stikprop skal d som giver forbind on liitettävä suojakos asiaan"	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en else til skettimilla		HUAKTEST	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord." In Finland : "Laite o varustettuun pistora	if surge suppressor veen the network te have a marking stat connected to an ea the applicable cou aratets stikprop skal d som giver forbind on liitettävä suojakos asiaan"	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en else til skettimilla		HUAKTEST	
	network shall, if saf reliable earthing or are connected betw accessible parts, h equipment shall be socket-outlet. The marking text in as follows: In Denmark : "Appa stikkontakt med jord stikproppens jord." In Finland : "Laite of varustettuun pistora In Norway : "Appara	if surge suppressor veen the network te have a marking stat connected to an ea the applicable cou aratets stikprop skal d som giver forbind on liitettävä suojakos asiaan" atet må tilkoples jor	rs erminals and ing that the arthed mains ntries shall be I tilsluttes en else til skettimilla			

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NK TESTING	EN 62368-1	W TESTING	AK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:		UAK TESTING
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		INVG
5.2.2.2	Denmark	6 HUNT	N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		K TESTING
5.4.11.1	Finland and Sweden		N/A
and Annex G	To the end of the subclause the following is added:		W TESTING
	For separation of the telecommunication network from earth the following is applicable:		NAT
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		MAG
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or 		
	 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 		K TESTING
	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 assing, so that elegenment and		UAK TESTING
	completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		muG
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 		K TESTING
	and		
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 		UNCTESTING
	It is permitted to bridge this insulation with a		

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AFICATION

- YOAKTES	makets	l 62368-1	WOAK TES	IN MAK IL
Clause	Requirement + Test		Result - Remark	Verdict
	capacitor complying with EN 60384-14:	2005,		
	subclass Y2.	NK TESTING		AK TESTING
	A capacitor classified Y3 according to E			O Your
	14:2005, may bridge this insulation und the following conditions:	er		
	TING	STING		TING
	 the insulation requirements are satis having a capacitor classified Y3 as of 			HUAKTER
	60384-14, which in addition to the Y	3 testing, is		9
	tested with an impulse test of 2,5 kV 5.4.11;	' defined in		
	IN TESTING	IAK TESTING		WK TESTING
	 the additional testing shall be perform test specimens as described in EN 6 			O HO
	the impulse test of 2,5 kV is to be perfo			
	the endurance test in EN 60384-14, in to f tests as described in EN 60384-14.	the sequence		K TESTING
5.5.2.1	Norway	O HUAN	O HUGH	N/A
	After the 3rd paragraph the following is	added:		
	TING WUAK TEL	TING		STING
	Due to the IT power system used, capa required to be rated for the applicable li			HUANTE
3	voltage (230 V).		STING	9
5.6	Finland, Norway and Sweden			N/A
	To the end of the subclause the following	ng is added:		IN A TESTIC
	Resistors used as basic safeguard or	bridaina		0"
	basic insulation in class I pluggable	equipment		
	type A shall comply with G.10.1 and the G.10.2.	e test of		Black
.6.1	Denmark	JUAK TEST	- WAKTESTIN	N/A
	Add to the end of the subclause	0		0
	Due to many existing installations wher	e the socket-		
	outlets can be protected with fuses with higher rating than the rating of the	socket		TESTING
	outlets the protection for pluggable	SUCKEL-		HUPA
	equipment type A shall be an integral p	art of the		
	equipment. Justification:			-TING
	In Denmark an existing 13 A socket out protected by a 20 A fuse.	let can be		O HUN TES.
5.6.4.2.1	Ireland and United Kingdom			N/A
	After the indent for pluggable equipme	ent type A,		and
	the following is added: - the protective current rating is take	n to be 13 A		UNKTEST
	this being the largest rating of fuse used			0
Olym	mains plug.		CONG.	

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		EN 62368-1		LAK TESTIN
Clause	Requirement + Test	0	Result - Remark	Verdict
5.6.4.2.1	France			N/A
.0.4.2.1	STING	G SING		CTING
	After the indent for pluggable equi	pment type A,		UAK TES
	the following is added:	0		
	- in certain cases, the protective c			
	the circuit supplied from the mains is instead of 16 A.	s taken as 20 A		
5.6.5.1	To the second paragraph the follow	ing is added:	(C) Mar	N/A
	D HOM	(C) HOM		HORS
	The range of conductor sizes of flex			
	accepted by terminals for equipmen			
	current over 10 A and up to and incl 1,25 mm ² to 1,5 mm ² in cross-section	nulling TS A IS.		TESTING O
.6.8	Norway		HUANIL	N/A
.0.0				W
	To the end of the subclause the follo			
	Equipment connected with an earth			
	classified as class I equipment . Se marking requirement in 4.1.15. The			W TESTING
	60417-6092, as specified in F.3.6.2			MURI
.7.6	Denmark			N/A
TESTING	- I STATESTING			
	To the end of the subclause the follo	owing is added:		TESTING
	The installation instruction shall be a	affixed to the		HUAN
	equipment if the protective conduct	100000		9
	exceeds the limits of 3,5 mA a.c. or	10 mA d.c.	MAK TES	
5.7.6.2	Denmark	STING		N/A
	To the end of the subclause the follo	owing is added.		- HUMA
	The warning (marking safeguard) for			
	current is required if the touch curre	ent or the		
	protective current exceed the limits	of 3,5 mA .	10	
5.7.7.1	Norway and Sweden	AK TESTING		N/A
	To the end of the subclause the follo	owing is added.		() IOM
	The screen of the television distribu			
	normally not earthed at the entrance	e of the building		
	and there is normally no equipotenti	ial bonding		TESTING
	system within the building.	the building		A HUAK .
	Therefore the protective earthing of installation needs to be isolated from			9
	cable distribution system.	in the screen of a		
	3	-mG STING		STING (
	It is however accepted to provide th			- UUAK TES
	external to the equipment by an ada			0
	interconnection cable with galvanic may be provided by a retailer, for example, for			
	The user manual shall then have the			resting
	similar information in Norwegian and	d Swedish		MUAKIL
	language respectively, depending o			
-	the equipment is intended to be use	ed in:		

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EN	l 62	36	8-'	$\langle \langle$

			EN 623	68-1			
Clause	0	Requirement + Te	est	D.u.	Result - Remark	0."	Verdict
HUAKTESTING	the buildin connection connection and to a te	s connected to the pro ig installation through n or through other app n to protective earthing elevision distribution sy y in some circumstance	the mains aratus with g – ystem using	a coaxial	HUNCTESTING	0	UAK TESTING
	system the device pro	onnection to a television erefore has to be proviouding electrical isolation range (galvanic isolation	ided through ion below a	n a certain			
	NOTE In N installation provide ele	Norway, due to regulat is, and in Sweden, a g ectrical insulation belo shall withstand a diele	alvanic isol w 5 MHz. T	ator shall he			K TESTING
	kV r.m.s., Translatio	50 Hz or 60 Hz, for 1 i n to Norwegian (the S ed in Norway):	min.	WAKTESTING			UNKTESTING
	nettplugg utstyr – og nett, kan f	r som er koplet til besl og/eller via annet jordt g er tilkoplet et koaksia orårsake brannfare. gå dette skal det ved t	ilkoplet Ibasert kab	KTESI			TUNG
	apparater galvanisk nettet."	til kabel-TV nett instal isolator mellom appara	leres en	el-TV			K TESTING
	"Apparate vägguttag samtidigt a medfőra ri anslutning	n to Swedish: r som är kopplad till sk och/eller via annan ut är kopplad till kabel-T\ sk főr brand. Főr att u av apparaten till kabe nas mellan apparaten	rustning och / nät kan i v ndvika detta el-TV nät ga	n issa fall i skall vid Ivanisk			UAKTESTING
.5.4.2.3	nätet.". United Kin	WAK TES	10	IK TESTING	O MIANTES	I LAK TE	N/A
	Add the for paragraph	llowing after the 2nd	dash bullet i	in 3rd			.6.0
HUAK TESTING	requireme required w	ency stop system com nts of IEC 60204-1 an /here there is a risk of	d ISO 1385	0 is	WAX TEST	40 M ¹	A TESTING
.3.1 and		d United Kingdom					N/A
.4	MUAK	ing is applicable:	ESTING	HUNKTESTING			UAK TESTING
		against excessive cur the primary circuit of d					

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AK TESTING	EN 62368-1	AN TESTING	AKTEST
Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTING	equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until	G HUMATISTING	UNKTESTING
G.4.2	the requirements of Annexes B.3.1 and B.4 are met Denmark	O tables	N/A
	To the end of the subclause the following is added:	ING OHD	
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	HUAKTESING	ACTESTING
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	es Munit trestines	UNTESTING
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	HUAKTESING HUAKTE	IN ^{IC}
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	Munitrestine M	N TESTING
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	G HUM TESTING	UAK TESTING
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	WANTESTING HUAKT	THUG
e) Den	Justification: Heavy Current Regulations, Section 6c	HUAKTESTING	-mile (
G.4.2	United Kingdom	HUAKTESTIN	N/A
	To the end of the subclause the following is added:	0	
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an	G MUNITESTING	UNKTESTING

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		OK TES EI	N 62368-1			
Clause	Requirem	ent + Test	0	Result - Rem	nark	Verdict
	Insulated Shutter Openir					
STING	requirements of clauses	22.2 and 23 a	lso apply.	G	STING	SULVE
G.7.1	United Kingdom To the first paragraph the	e following is a	idded:			N/A
	Equipment which is fitted and is designed to be co conforming to BS 1363 b cable or cord shall be fitt	nnected to a r by means of th ed with a 'star	nains socket at flexible idard plug' in			TING
	accordance with the Plug Regulations 1994, Statut 1768, unless exempted I regulations.	ory Instrumen				A TESTING
crinic	NOTE "Standard plug" is and essentially means a to BS 1363 or an approv	in approved pl	ug conforming	Q	TING	STING
G.7.1	Ireland		HUAKTEL			N/A
	To the first paragraph the	e following is a	dded:			
	Apparatus which is fitted shall be provided with a Statutory Instrument 525	plug in accord	ance with			TING
	Conversion Adapters for 1997. S.I. 525 provides for standard of another Men	Domestic Use or the recogni	e Regulations: tion of a			June Diam
	equivalent to the relevan		C.V.			AK TESTA
6.7.2	Ireland and United Kingo		O m	O HU	0."	N/A
	To the first paragraph the	e following is a	dded:			
	A power supply cord with allowed for equipment w up to and including 13 A	hich is rated o				NAKTESTING

ZC ANNEX ZC, NATIONAL DEVIATIONS (EN)

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NK TESTIN	IN LAK TES	EN 62368-1		IK TESTIN	LAK TED
Clause	Requiremen	nt + Test	Result - Ren	nark	Verdict
0.5.2	Germany	-		.6	N/A
	The following requirement	applies:	KTESTINA HUAKT		NUAKTESTINAS
	For the operation of any ca the display of visual image acceleration voltage excee required, or application of t approval (Bauartzulassung	es operating at an eding 40 kV, authorization type	STA		STING
	Justin German ministerial decree (Röntgenverordnung), in fo 2002-07-01, implementing 96/29/EURATOM.	orce since	EST.		W TESTING
UAKTESTING	NOTE Contact address: Physikalisch-Technische Bundes Braunschweig, Tel.: Int+49-531-592-6320, Intern		38116	esting	WARTESTING

ZD

IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)

N/A

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EN 62368-1
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20.	- Maria	- 10.	- N/M-	101	UP*
Clause	0	Requirement + Test	0	Result - Remark	Verdict

Type of flexible cord	Code desi	Code designations		
	IEC	CENELEC	NUAK TEST	
PVC insulated cords	1		-	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y	TING	
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F		
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	K TESTING	
Rubber insulated cords			54.	
Braided cord	60245 IEC 51	H03RT-F		
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	TINC	
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	WAKTESTING	
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F		
Cords having high flexibility		·	TING	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H		
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	ноз∣≈∨4-н		
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	TESTING	
Cords insulated and sheathed with halogen- free thermoplastic compounds			DR.	
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	TING	
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	WAKTEST	
		10	1	

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-Appendix 2: Photo document.

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Photo 1: Overall view

Photo 2: Overall view

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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Photo 6: Overall view

00*00 80 10 60 20 40 3*0 50 ;0300 80 80 10 60 20 40 30 50 10100 80 80 10 60 20

omm 01 02 05 04 02 03 07 08 06 001 01 02 05 05 05 07 08 06 00201 02 04 02 0



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Photo 8: Internal view

10030 80 20 60 20 40 30 30 10 300 30 80 20 60 20 40 30 50 10 500 30 80 20 60 20 40 30 50 10 100 30 80 20 60 30

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Photo 9: PCB view



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R 2 02 06 07 09 02 08 06 00 01 01 02 06 07 09 09 02 08 05 02 08 02 08 02 08 02 08 Photo 11: PCB view

End of report-

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