

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for:

Shenzhen Dragino technology development co., LTD.

Room 202, Block B, BaoChengTai industrial park, No.8 CaiYunRoad, LongCheng Street, LongGang

District, Shenzhen 518116, China

Product: LoRaWAN Door Sensor/ LoRaWAN Water Leak

Trade Name: Dragino

Model Name: LDS01, LWL01

Date of Test: Oct. 20, 2020 to Oct. 29, 2020

Date of Report: Oct. 29, 2020

Report Number: HK2010142887-SR

Prepared By:

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TEST REPORT IEC 62368-1

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

Report Number.....: HK2010142887-SR

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Applicant's name: Shenzhen Dragino technology development co., LTD.

Address...... Room 202, Block B, BaoChengTai industrial park, No.8 CaiYunRoad,

LongCheng Street, LongGang District, Shenzhen 518116, China

Test specification:

Standard EN 62368-1:2014+A11:2017

Test procedure.....: CE-LVD

Non-standard test method: N/A

Test Report Form No.....: IEC62368_1B

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General disclaimer:

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

Test Item description:	LoRaWAN Door Sensor/ LoRaWAN Water Leak
Trade Mark:	Dragino
Manufacturer	Shenzhen Dragino technology development co., LTD.
Manufacturer address	Room 202, Block B, BaoChengTai industrial park, No.8 CaiYunRoad, LongCheng Street, LongGang District, Shenzhen 518116, China
Model/Type reference	LDS01, LWL01
Ratings	Input: 3V===, 0.1A

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27		Name :	
Tes	ting procedure and testing location:		
	Testing Laboratory:	Shenzhen HUAK Testin	ng Technology Co., Ltd.
Tes	ting location/ address:	NOW LA	feng Zhongcheng Zhizao g, Fuhai Street, Bao'an District,
	Associated Testing Laboratory:	TESTING	HUAKTE
Tes	ting location/ address:	MIN.	TESTING HUM
Tes	ted by (name + signature):	Jason Cheng	Jewen HETC
App	proved by (name + signature):	Dendi Wei	Jenstin Harris H
	Testing procedure: TMP/CTF Stage 1:	O Mag	O HUAR
Tes	ting location/ address:	THE	TING TIME
Tes	ted by (name + signature):	HUAKTES	HILAKTES
App	proved by (name + signature):		TESTING W
	Testing procedure: WMT/CTF Stage 2:	ING MAKTESTIN	JANTESTING - JUNITESTING
Tes	ting location/ address:	0.,	
Tes	ted by (name + signature):	TING	TING TING
Witr	nessed by (name + signature):	HUAKTES	HUANTES
App	proved by (name + signature):	-	-6
	Testing procedure: SMT/CTF Stage 3 or 4:	O HUNKTESTIN	O HUAY TESTING
Tes	ting location/ address:	NG STING NA	AKTESTING TING
Tes	ted by (name + signature):	HUAK	HUAKTES. HUAKTE
Witr	nessed by (name + signature):		
App	roved by (name + signature):		
Sup	ervised by (name + signature):	LAK TESTION	LAN TESTIVE

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List of Attachments (including a tale) -Appendix 1: For requirements of E			iment):	
-Appendix 2: Photo attachments. (4	pages)			
Summary of testing:	- UNAX TESTING	- WAKTESTING	- WAY TESTING	WAKTESTING
Tests performed (name of test an clause): All clauses.	d test	Testing location: Shenzhen HUAK Tes 1-2/F., B2 Building, Ju Innovation Park, Hepi Shenzhen, China	unfeng Zhongcheng	g Zhizao
		MAKTESTING		
		STING		
Summary of compliance with Nat European group differences.	ional Differenc	HUANTESTING HUA	K TESTING O	HUAK TESTING
☑ The product fulfils the require	ments of EN 6	2368-1:2014+A11:2017		

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Copy of marking plate:

The artwork below may be only a draft.

Dragino

LoRaWAN Door Sensor/ LoRaWAN Water Leak Model: LDS01 Input: 3V===, 0.1A



Shenzhen Dragino technology development co., LTD.

Room 202, Block B, BaoChengTai industrial park, No.8 CaiYunRoad,
LongCheng Street, LongGang District, Shenzhen 518116, China

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TEST ITEM PARTICULARS:	477
Classification of use by:	☑ Ordinary person
	☐ Instructed person
TESTING TESTING	Skilled person
HILAN. HUAR.	☐ Children likely to be present
Supply Connection ::	☐ AC Mains ☐ DC Mains
TESTINE TIE	
IN TESTIN WHO HUN	- ⊠ ES1 □ ES2 □ ES3
Supply % Tolerance:	<u>+10%/-10%</u>
N. TESTING	+20%/-15%
THE STIME WHITE	
"LANTES IN " HUANTES " " LANTES IN	None Non
Supply Connection – Type:	pluggable equipment type A -
	non-detachable supply cord
me me	appliance coupler
WANTES III	direct plug-in
	mating connector
TING	pluggable equipment type B -
TES. TIME WINTES!	non-detachable supply cord
HUNITES (II)	appliance coupler permanent connection
s	☐ mating connector ☒ other:
Considered current rating of protective device as part	A; no make
of building or equipment installation	Installation location:
Equipment mobility:	⊠ movable
	stationary for building-in direct plug-in rack-mounting wall-mounted
Over voltage category (OVC):	
Over voltage category (Over)	OVC IV Sother:
Class of equipment	☐ Class I ☐ Class III ☐ Class III
Access location	restricted access location N/A
Pollution degree (PD)	□ PD 1 □ PD 3
Manufacturer's specified maxium operating ambient:	<u>25</u> °C
IP protection class:	☑ IPX0 ☐ IP
Power Systems	☑ TN ☐ TT ☐ IT V _{L-L}
Altitude during operation (m)	⊠ 2000 m or less □ m
Altitude of test laboratory (m)	☑ 2000 m or less ☐ m
Mass of equipment(kg)	

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POSSIBLE TEST CASE VERDICTS:	WESTING WESTING
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
GENERAL REMARKS:	- WAKTESTON - WAKTESTON - WAKTESTON
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended throughout this report a □ comma / ☒ point is u	to the report.
The related applicable OSM decisions have been con	. N
	of measurement uncertainty from the test equipment
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☑ Not applicable
When differences exist; they shall be identified in t	he General product information section.
Name and address of factory (ies):	HUANTESTINE WHIANTESTINE
GENERAL PRODUCT INFORMATION: Product Description – 1. The product is LoRaWAN Door Sensor/ LoRaWAN	Water Leak, electronic components mounted on PCB,
external enclosure is plastic material. 2. The products only suitable connected to the Power 3. Maximum recommended ambient (Tmra): 25°C	
Model Differences –	STIME HUNK TESS.
All models are identical, only different in the appearant model for full tests.	ice, so the model LDS01 is selected as representative
Additional application considerations – (Consider N/A	ations used to test a component or sub-assembly) –
TETHE TETHE	

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

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

Electrically-caused injury (Clause 5):

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

classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)
All source	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
All source	PS1

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

Source of	hazardous substances	ESTI	Corresponding chemical	
N/A	WAKTES.	- HUAK	N/A	THUAKTES.

Mechanically-caused injury (Clause 8)

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

Example: Wall mount unit

MS2

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

Thermal burn injury (Clause 9)

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

Example: Hand-held scanner – thermoplastic enclosure TS

Source of thermal energy	HUAKTE	Corresponding cla	ssification (TS)
All source		TS1	HUAR

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)
N/A	N/A

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TESTIN VEES	TESTIN WES.		TESTIL.	TES.
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	ES1: All source	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. Wireless Keyboard enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
All combustible materials within equipment	PS1: Input terminal	N/A	N/A	N/A
7.1	Injury caused by hazardous	substances		
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary	MS1: sharp edges and cornerss	N/A	N/A	N/A
Ordinary	MS1: Equipment mass (<7kg)	N/A	N/A	N/A
9.1	Thermal Burn		•	
Body Part	Energy Source Safeguards			
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary	TS1: enclosure	N/A	N/A	N/A
10.1	Radiation		1 (63)	ı
Body Part	Energy Source	Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
MAKTES	MAKTESTA		WAKTEST	HUAKTES
DETA 1	(0.53)	1	555H (125	j

Supplementary Information:

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

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NAK TEST	MAKTE IEC 6	2368-1	MAKTER
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1 ²⁵	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.	PATAK TE P
4.1.2	Use of components	See table 4.1.2	Р
4.1.3	Equipment design and construction	No accessible part which could cause injury	AKTESTIPS (
4.1.15	Markings and instructions	: (See Annex F)	Р
4.4.4	Safeguard robustness	See below	N/A
4.4.4.2	Steady force tests	: (See Annex T.4, T.5)	N/A
4.4.4.3	Drop tests	(See Annex T.7)	N/A
4.4.4.4	Impact tests	: (See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure a barrier tests	nd No internal enclosure.	N/A
4.4.4.6	Glass Impact tests	: No such glass used.	N/A
4.4.4.7	Thermoplastic material tests	: (See Annex T.8)	N/A
4.4.4.8	Air comprising a safeguard	: (See Annex T)	N/A
4.4.4.9	Accessibility and safeguard effectiveness	After test, all safeguard remains effective, No damaged	N/A
4.5	Explosion	No explosion	Р
4.6	Fixing of conductors	TING	N/A
4.6.1	Fix conductors not to defeat a safeguard	HUAN TE	N/A
4.6.2	10 N force test applied to		N/A
4.7	Equipment for direct insertion into mains soutlets	socket -	N/A
4.7.2	Mains plug part complies with the relevant standard		N/A
4.7.3	Torque (Nm)	THE WHILE	N/A
4.8	Products containing coin/button cell batter	it is unlikely that children will be present	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction	est. Ota	N/A
HUAKTESTING	Means to reduce the possibility of children removing the battery		_
4.8.4	Battery Compartment Mechanical Tests	: (See Table 4.8.4)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	N/A

5	ELECTRICALLY-CAUSED INJURY		P P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current:	3VDC	P
5.2.2.3	Capacitance limits:	3.11 OK 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:	Đị _c	Р
5.3	Protection against electrical energy sources	"IAKTESTI	P P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	Р
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 could be accessible to ordinary person.	P (
5.3.2.2	Contact requirements	HAM TES H	AKTE P
	a) Test with test probe from Annex V:	The probe could not insert into the equipment as there is no ventilation on the product.	Р
HUAKTESTING	b) Electric strength test potential (V):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
AK TESTING	c) Air gap (mm)	The probe could not insert into the equipment as there is no ventilation on the product.	STANG 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	STIME OF THE	TESTP ³
5.4.1.2	Properties of insulating material	The choice and application have taken into account as specified in this Clause 5 and Annex T except natural rubber, hygroscopic materials or asbestos are not used as insulation.	P NAV TESTING
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	N/A
5.4.1.5	Pollution degree:	Pollution degree 2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2	N/A
5.4.1.5.3	Thermal cycling	Pollution degree 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions	ale O	N/A
5.4.1.7	Insulation in circuits generating starting pulses	- WAKTES IN	N/A
5.4.1.8	Determination of working voltage	STIME STIME	N/A
5.4.1.9	Insulating surfaces	Considered.	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	See below	N/A
5.4.1.10.2	Vicat softening temperature:	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances	TING	N/A
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	N/A
	a) a.c. mains transient voltage:	HURN TES	_
Y TESTINI	b) d.c. mains transient voltage	STILL OF TESTING	_
O HUM	c) external circuit transient voltage:	O HUST ON	
	d) transient voltage determined by measurement		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	Y TESTING	N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	N/A
5.4.3.1	General	- C	N/A
5.4.3.3	Material Group	IIIb HARTESTA	_
5.4.4	Solid insulation	STANG (I)	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	Solid insulation in semiconductor devices	-10	N/A
5.4.4.5	Cemented joints	TESTIN	N/A
5.4.4.6	Thin sheet material	0,	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material	ESTING . W. ESTING	N/A
Drive.	Number of layers (pcs):	0,4,4	N/A
5.4.4.6.3	Non-separable thin sheet material	STING	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	STING	N/A
5.4.4.7	Solid insulation in wound components	ING HURK	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	JAK TESTING	N/A
5.4.5	Antenna terminal insulation	0 0	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	-STING	N/A
HUAKTE	Insulation resistance (MΩ)	HUAKEL	_
5.4.6	Insulation of internal wire as part of supplementary safeguard:	(See appended table 5.4.4.2)	N/A
5.4.7	Tests for semiconductor components and for cemented joints	HUAK T	N/A
5.4.8	Humidity conditioning	ESTING	N/A
	Relative humidity (%):	THE HUART	
- JUAN TEST	Temperature (°C):	- WAKTESTA	
0	Duration (h):	0, 0	
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	ESTING TESTING	N/A
5.4.9.2	Test procedure for routine tests	White.	N/A
5.4.10	Protection against transient voltages between external circuit	W.TESTING	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	alg O H	N/A
5.4.10.2.1	General	WAKTES!	N/A
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A
5.4.11	Insulation between external circuits and earthed circuitry	(See appended table 5.4.9)	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	ESTING HUARTESTING	N/A
5.4.11.2	Requirements	-	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
.0	Rated operating voltage U _{op} (V):		_
"IAK TESTING	Nominal voltage U _{peak} (V):	TESTING.	_
	Max increase due to variation U _{sp} :	0	_
TESTING	Max increase due to ageing ΔU _{sa} :	TESTING	_
33-	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	White Out I	_
5.5	Components as safeguards	O Indian	
5.5.1	General	LEAV TESTIAN	N/A
5.5.2	Capacitors and RC units	STING OF THE	N/A
5.5.2.1	General requirement	MILIAN OH	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(See Annex G.5.3)	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	STING	N/A
5.5.7.2	Use of an SPD between mains and protective earth	STING HUNE I	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	TESTING Y TESTING	N/A
5.6.2.1	General requirements	O HUND	N/A
5.6.2.2	Colour of insulation	TING	N/A
5.6.3	Requirement for protective earthing conductors	G HUAK TEST	N/A
	Protective earthing conductor size (mm²)	HILAK.	_
5.6.4	Requirement for protective bonding conductors	TESTING	N/A
5.6.4.1	Protective bonding conductors	TING WHIAM	N/A
- WAK TESTIN	Protective bonding conductor size (mm²)	WAK TESTIN	
	Protective current rating (A):	0,	_
5.6.4.3	Current limiting and overcurrent protective devices	THE THE	N/A
5.6.5	Terminals for protective conductors	I TEST	N/A
5.6.5.1	Requirement		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
TESTING	Conductor size (mm²), nominal thread diameter (mm).	ESTING (TESTING	N/A
5.6.5.2	Corrosion	O HIAL	N/A
5.6.6	Resistance of the protective system	nic .	N/A
5.6.6.1	Requirements	WAY TEST	N/A
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	N/A
5.6.7	Reliable earthing	STING	N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A
5.7.2	Measuring devices and networks	JAK TESTING	N/A
5.7.2.1	Measurement of touch current	0,,	N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	ESTINGAKTESTING	N/A
W.C	System of interconnected equipment (separate connections/single connection):		_
IK TES S	Multiple connections to mains (one connection at a time/simultaneous connections)	MAKTEE	_
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current	HUNKTES	N/A
V TESTI	Supply Voltage (V)	STATE OF THE STATE	_
MIN HUM	Measured current (mA)	O HUNDER OF THE	_
	Instructional Safeguard:	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	ESTING W.TESTING	N/A
5.7.6.1	Touch current from coaxial cables	(a) (b)	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	MAKTESTING	N/A
5.7.7	Summation of touch currents from external circuits	MAK'T	N/A
-0	a) Equipment with earthed external circuits Measured current (mA):	TING HUARTESTA	N/A
HUAK TESTA	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	O HUANTES !!	N/A

6	ELECTRICALLY- CAUSED FIRE	P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)	HUMK TE P
6.2.2	Power source circuit classifications	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	P
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	0.3 W after 3s	тис р
6.2.2.5	PS2:	(See appended table 6.2.2)	N/A
6.2.2.6	PS3:	(See appended table 6.2.2)	N/A
5.2.3	Classification of potential ignition sources	ING MUAKTE	P
5.2.3.1	Arcing PIS:	(See appended table 6.2.3.1)	AK TESTIN
5.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	N/A
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	N/A
6.3.1 (b)	Combustible materials outside fire enclosure	No such materials used.	N/A
6.4	Safeguards against fire under single fault conditions	S HUAKTEEN	STING P
6.4.1	Safeguard Method	Approved fire enclosure used	N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	HARTESTINE	Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	HUAN TESTING H	N/A
6.4.3.1	General		N/A
5.4.3.2	Supplementary Safeguards	By equipped plastic fire enclosure.	N/A
HUAKTESTING	Special conditions if conductors on printed boards are opened or peeled	No such case happened.	N/A
5.4.3.3	Single Fault Conditions ::	(See appended table 6.4.3)	N/A
TESTING	Special conditions for temperature limited by fuse	JAY TESTI	N/A
6.4.4	Control of fire spread in PS1 circuits	O THAK!	Р
6.4.5	Control of fire spread in PS2 circuits	THE	N/A
6.4.5.2	Supplementary safeguards:	(See appended tables 4.1.2 and Annex G)	N/A
6.4.6	Control of fire spread in PS3 circuit	HUAKTE	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:	(See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance	ESTING . N. TESTING	N/A
6.4.7.3	Separation by a fire barrier	(a) Kon.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.8	Fire enclosures and fire barriers	.0	N/A
6.4.8.1	Fire enclosure and fire barrier material properties	(ESTITUTE) LANTESTING	N/A
6.4.8.2.1	Requirements for a fire barrier	0, 0	N/A
6.4.8.2.2	Requirements for a fire enclosure	TSTNG	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	MAKE	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	STING	N/A
6.4.8.3.2	Fire barrier dimensions	ING MARKET	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	HUAN TESTIN	N/A
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	TESTING VITESTING	N/A
HUM	Flammability tests for the bottom of a fire enclosure	O HUM	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	HUAKTESTING	N/A
6.4.8.4 •	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	State Manual	N/A
6.5	Internal and external wiring	THE HUAR IS	N/A
6.5.1	Requirements	JAK TESTING	N/A
6.5.2	Cross-sectional area (mm²)	0,	_
6.5.3	Requirements for interconnection to building wiring	(See Annex Q.)	N/A
6.6	Safeguards against fire due to connection to additional equipment	EST. NAMES IN	N/A
TESTING	External port limited to PS2 or complies with Clause Q.1	TESTING	N/A

7	Reduction of exposure to hazardous substances No hazardous chemicals within the equipment.		N/A
7.2			N/A
7.3	Ozone exposure	O HUARA	N/A
7.4	Use of personal safeguards (PPE)		N/A
-nJG	Personal safeguards and instructions:	Dia. Dia.	_
7.5	Use of instructional safeguards and instructions	ES!	N/A
9	Instructional safeguard (ISO 7010)	0	_

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OK TESTIN	3 NANTESTING OF	IEC 62368-1	INC WESTING	IAK TESTING
Clause	Requirement	+ Test	Result - Remark	Verdict
7.6	Batteries	: (See Annex M)	N/A

"IAK"	WAKET WAKET WA	"IAX"	MAKIL
8	MECHANICALLY-CAUSED INJURY		Р
8.1	General	See the following details.	Р
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1 Equipment maximum mass < 7 kg, classified as MS1	STIME P
8.3	Safeguards against mechanical energy sources	- WAYTES!	N/A
8.4 RESTIN	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	AKTEST
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts within the equipment.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	O. This	N/A
8.5.2	Instructional Safeguard:	HUAKTES.	_
8.5.4	Special categories of equipment comprising moving parts	THE NAME OF PRIVATE OF	N/A
8.5.4.1	Large data storage equipment	HUAKTES	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	HUAY TESTING AN	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
LAK TESTING	Instructional Safeguard	W TESTINGS	_
8.5.4.2.3	Disconnection from the supply	0,00	N/A
8.5.4.2.4	Probe type and force (N)	ESTINE	N/A
8.5.5	High Pressure Lamps	M HILAN TO	s ^{oo} N/A
8.5.5.1	Energy Source Classification	O HUSE	N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability	ESTING NEW TENTING	N/A
8.6.1	Product classification	HUANTE	N/A
	Instructional Safeguard		_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	W ESTING	N/A
) Ho	Applied Force:	0,***	

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Clause	Requirement + Test	Result - Remark	Verdict
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test	TESTIND TANTESTIND	N/A
	Unit configuration during 10° tilt:	0,	
8.6.4	Glass slide test	TSTING	N/A
8.6.5	Horizontal force test (Applied Force)	HUARI	N/A
. (Position of feet or movable parts:	() How	_
8.7	Equipment mounted to wall or ceiling	MAKIESTING	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	THUS WITH TESTING	N/A
8.7.2	Direction and applied force	0,,	N/A
8.8	Handles strength		N/A
8.8.1	Classification	ESTING TESTING	N/A
8.8.2	Applied Force	O HUM	N/A
8.9	Wheels or casters attachment requirements	, NG	N/A
8.9.1	Classification	HUNKTEST	N/A
8.9.2	Applied force	HUAKT	
8.10	Carts, stands and similar carriers	TSTING	N/A
8.10.1	General	THE HUAK!	N/A
8.10.2	Marking and instructions	WANTESTIN AND	N/A
	Instructional Safeguard:	0	_
8.10.3	Cart, stand or carrier loading test and compliance		N/A
TESTING	Applied force	ESTING TESTING	_
8.10.4	Cart, stand or carrier impact test	White.	N/A
8.10.5	Mechanical stability	THIC CONTRACTOR	N/A
KTEST	Applied horizontal force (N)	HUAKTES I.	_
8.10.6	Thermoplastic temperature stability (°C)	HUAKT	N/A
8.11	Mounting means for rack mounted equipment	TESTING .	N/A
8.11.1	General	TING MHUAN.	N/A
8.11.2	Product Classification	MAKTESIII	N/A
8.11.3	Mechanical strength test, variable N	0,	N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A
HUAK	Button/Ball diameter (mm)	HIART	_

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

10	RADIATION		N/A
10.2	Radiation energy source classification	HJAKTE	N/A
10.2.1	General classification		N/A
10.3	Protection against laser radiation		N/A
AKTESTING	Laser radiation that exists equipment:	TESTING AK TESTING	_
HO	Normal, abnormal, single-fault:	(See attached laser test report)	N/A
-CTING	Instructional safeguard:	The	_
KILL	Tool	RUNCTE	_
10.4	Protection against visible, infrared, and UV radiation	THE OHUM	N/A
10.4.1	General	TE HUAN'TE	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	ON TESTING	N/A
10.4.1.b)	RS3 accessible to a skilled person:	0 11	N/A
.0	Personal safeguard (PPE) instructional safeguard:		_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	TESTI I LANTESTI	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	(See appended table B.3 & B.4)	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	- WAKTESTING	N/A
10.4.1.f)	UV attenuation:	MAKI	N/A
10.4.1.g)	Materials resistant to degradation UV	SING	N/A
10.4.1.h)	Enclosure containment of optical radiation:	THE HUAR	N/A
10.4.1.i)	Exempt Group under normal operating conditions	WAKTES IN WH	N/A
10.4.2	Instructional safeguard		N/A
10.5	Protection against x-radiation	Die. Die.	N/A
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
),	Normal, abnormal, single fault conditions	9	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
.sG	Equipment safeguards:	. A	N/A
LAKTESTING	Instructional safeguard for skilled person:	TESTING.	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	(a)	_
KTES	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A
	Maximum radiation (pA/kg)	HUAK	N/A
10.6	Protection against acoustic energy sources	SIMG	N/A
10.6.1	General	THE HUAR	N/A
10.6.2	Classification	JAY TESTING	N/A
(I) HOVE	Acoustic output, dB(A):	0	N/A
	Output voltage, unweighted r.m.s:		N/A
10.6.4	Protection of persons	TING	N/A
HUAKTES	Instructional safeguards:	HUAK PEN	N/A
TESTING	Equipment safeguard prevent ordinary person to RS2:	TESTING.	_
	Means to actively inform user of increase sound pressure:	HUANT	_
3	Equipment safeguard prevent ordinary person to RS2:	WAY TESTING	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	THE HARTESTING	N/A
10.6.5.1	Corded passive listening devices with analog input		N/A
MAKTESTING	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	RESTING	_
10.6.5.2	Corded listening devices with digital input		N/A
TESTING	Maximum dB(A)	TESTING	_
10.6.5.3	Cordless listening device	HUANTA	N/A
6	Maximum dB(A):	M. HUNG	

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		AKTEST P
B.2	Normal Operating Conditions	9.	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
HUAKTES	Audio Amplifiers and equipment with audio amplifiers	REST.	N/A
B.2.3	Supply voltage and tolerances	TING	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	TESTING	N/A
B.3.1	General requirements:	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings	No ventilation openings provided.	N/A
B.3.3	D.C. mains polarity test	The EUT is not connected to a D.C. mains	s ^{rive} N/A
B.3.4	Setting of voltage selector:	No setting of voltage selector within the EUT	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3&B.4)	N/A
B.3.6	Reverse battery polarity	MILAN OH	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	N/A
B.4	Simulated single fault conditions	9	Р
B.4.2	Temperature controlling device open or short-circuited	(See appended table B.4)	STING P
B.4.3	Motor tests	O HUM	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	, MAKTES III	N/A
B.4.4.1	Short circuit of clearances for functional insulation	0,,	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	360 360	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	PLAK TEST	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	, IAK TESTING	P
B.4.6	Short circuit or disconnect of passive components	O HE WANT	Р
B.4.7	Continuous operation of components	TING (II)	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	TING HUARTES	P
B.4.9	Battery charging under single fault conditions:	HUAKT	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	ESTING TESTING	N/A
C.1.2	Requirements	HUAK	N/A
C.1.3	Test method		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	TESTIN	N/A
C.2.2	Mounting of test samples	0,,,	N/A
C.2.3	Carbon-arc light-exposure apparatus	STING	N/A
C.2.4	Xenon-arc light exposure apparatus	HIM	s ^{N/A} N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	X TESTING	N/A
D.2	Antenna interface test generator	TIME WHITE	N/A
D.3	Electronic pulse generator	HIJAKTE	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions		N/A
X TESTING	Audio signal voltage (V):	ESTING WESTING	_
HUAR	Rated load impedance (Ω):	O HONE	
E.2	Audio amplifier abnormal operating conditions	TING	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	STING P
F.1	General requirements	HIM	Р
O HUAN TESTING	Instructions – Language	Evaluated the user manual in English version. The manufacturer commits to provide them in the language of the countries where the product will be distributed.	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	310	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	TEST O HUAYTESTEE	HUAK TEP
F.3	Equipment markings	TING	Р
F.3.1	Equipment marking locations	On the product	STING P
F.3.2	Equipment identification markings	HUAN	Р
F.3.2.1	Manufacturer identification	See marking	_
F.3.2.2	Model identification:	Marked	_
F.3.3	Equipment rating markings	- WAY TEST	P. P
F.3.3.1	Equipment with direct connection to mains		Р
F.3.3.2	Equipment without direct connection to mains	Considered	N/A
F.3.3.3	Nature of supply voltage	See marking	
F.3.3.4	Rated voltage	See marking	_
F.3.3.4	Rated frequency		

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.6	Rated current or rated power:	See marking	_
F.3.3.7	Equipment with multiple supply connections	TESTING	N/A
F.3.4	Voltage setting device	0	N/A
F.3.5	Terminals and operating devices	TSTING	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	HUAKT	N/A
F.3.5.2	Switch position identification marking:	ESTING	N/A
F.3.5.3	Replacement fuse identification and rating markings	TETING	N/A
F.3.5.4	Replacement battery identification marking:	O HUM. O H	N/A
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification	TESTING WITESTING	N/A
F.3.6.1	Class I Equipment	O HUNG	N/A
F.3.6.1.1	Protective earthing conductor terminal	TING	N/A
F.3.6.1.2	Neutral conductor terminal	HUNKTES	N/A
F.3.6.1.3	Protective bonding conductor terminals	HUAK	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	TESTING	N/A
F.3.6.2.1	Class II equipment with or without functional earth	TING HUANT	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	WAYTESIN WH	N/A
F.3.7	Equipment IP rating marking:	IPX0	_
F.3.8	External power supply output marking	Marked on the label	N/A
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	MAKTEP
F.3.10	Test for permanence of markings	Complied	P P
F.4	Instructions	O	Р
G Dans	a) Equipment for use in locations where children not likely to be present - marking	The accessibility of equipment was evaluated by using test probe of Figure V.2.	P
MAK TEST	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	AKTE P
	c) Equipment intended to be fastened in place	See above.	Р
HUAKTESTING	d) Equipment intended for use only in restricted access area	The EUT is not such type equipment	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
A HUAK TESTING	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	No such terminals provided.	N/A
9	f) Protective earthing employed as safeguard	Class III equipment	N/A
K TESTING	g) Protective earthing conductor current exceeding ES 2 limits	Class III equipment	N/A
	h) Symbols used on equipment	Complied	Р
(G	i) Permanently connected equipment not provided with all-pole mains switch	The EUT is not a permanently connected equipment	N/A
j) HUAN TESTIN	j) Replaceable components or modules providing safeguard function	No replaceable components	N/A
F.5	Instructional safeguards	No instructional safeguard is considered as necessary.	N/A
HUAKTESTING	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	No instructional safeguard required in the equipment.	N/A
G	COMPONENTS		N/A
G.1	Switches	HUAKTE	s ^{ool} N/A
G.1.1	General requirements	MIN.	N/A
G.1.2	Ratings, endurance, spacing, maximum load	V TESTING	N/A
G.2	Relays	STING NUMBER	N/A
G.2.1	General requirements	No such relay provided within the equipment.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	TING TING	N/A
G.2.4	Mains relay, modified as stated in G.2	The HUARTE	N/A
G.3	Protection Devices	-	N/A
G.3.1	Thermal cut-offs	No thermal cut-off provided within the equipment.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	STING MAINT	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	THE HUMER	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	O HINE O H	N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	ESTING LESTING	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	O HINN	N/A
	Aging hours (H):	.6	

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Single Fault Condition:		_
AK TESTING	Test Voltage (V) and Insulation Resistance (Ω).	TESTING . NY TESTING	
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N/A
G.3.4	Overcurrent protection devices	· WAKTESTIN	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	- WAY TESTING	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	HUAN	N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:	Dia Dia	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	NEST OF HUARTEST	N/A
G.5	Wound Components	TING	N/A
G.5.1	Wire insulation in wound components	(See Annex J)	_{sto} N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Insulation tube used as physical separation	N/A
G.5.1.2 b)	Construction subject to routine testing	HUAK TESS	N/A
G.5.2	Endurance test on wound components	STIME WITE TIME	N/A
G.5.2.1	General test requirements	O HUM	N/A
G.5.2.2	Heat run test		N/A
TING	Time (s)	mig mig	
HUAKTES	Temperature (°C):	TEO	
G.5.2.3	Wound Components supplied by mains	9	N/A
G.5.3	Transformers	A KTESTING	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	O MAKT	N/A
6	Position	V TESTING	_
-70	Method of protection:	TING HOSE	_
G.5.3.2	Insulation	HUAKTES	N/A
	Protection from displacement of windings:		
G.5.3.3	Overload test:		N/A
G.5.3.3.1	Test conditions	TESTING	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	O HUAR	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	200	N/A

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NY TESTIN	IEC 62368-1	N TESTING	LAK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4	Motors		N/A
G.5.4.1	General requirements	May TESTING	N/A
Dec.	Position:	0,	
G.5.4.2	Test conditions	ESTING.	N/A
G.5.4.3	Running overload test	HUAR	s ^M N/A
G.5.4.4	Locked-rotor overload test	(NOAS	N/A
11C	Test duration (days):	AKTESTING	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	E NAK TESTING	N/A
G.5.4.5.2	Tested in the unit	0,	N/A
	Electric strength test (V)		_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	THUG HUAKTESTING	N/A
33	Electric strength test (V):		_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	HUAKTESTING	N/A
G.5.4.6.2	Tested in the unit	HIAR	N/A
JG	Maximum Temperature	Y TESTING	N/A
TIN	Electric strength test (V)	IC WINE	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	O HUANTES!	N/A
	Electric strength test (V):		N/A
G.5.4.7	Motors with capacitors	TING TING	N/A
G.5.4.8	Three-phase motors	HUAKTES	N/A
G.5.4.9	Series motors		N/A
KTESTING	Operating voltage:	MYTESTING	_
G. 6	Wire Insulation	MIL.	N/A
G.6.1	General	me O'	N/A
G.6.2	Solvent-based enamel wiring insulation	A HUAKTES!	N/A
G.7	Mains supply cords	TESTING	N/A
G.7.1	General requirements	O HUAN ON	N/A
	Type:		_
myG	Rated current (A)	Our Our	_
HUAKTES	Cross-sectional area (mm²), (AWG)	HUAKTEST	_
G.7.2	Compliance and test method	9.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords	ESTING ESTING	N/A
G.7.3.2	Cord strain relief	Why.	N/A
G.7.3.2.1	Requirements	Sken	N/A
KTESTI	Strain relief test force (N)	- WAKTES	
G.7.3.2.2	Strain relief mechanism failure	HIAK.	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	STING	_
G.7.3.2.4	Strain relief comprised of polymeric material	all HILITER	N/A
G.7.4	Cord Entry	(See appended table 5.4.11.1)	N/A
G.7.5	Non-detachable cord bend protection	0,000	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g):	TING TING	_
HUARTES	Diameter (m)	HUARTE	
	Temperature (°C)		
G.7.6	Supply wiring space	S LAY TESTING	N/A
G.7.6.2	Stranded wire	May Make	N/A
G.7.6.2.1	Test with 8 mm strand	TING .	N/A
G.8	Varistors	I WANTERS	N/A
G.8.1	General requirements	OK TESTING	N/A
G.8.2	Safeguard against shock	0 1111	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test:	(See appended table B.3)	N/A
G.8.3.3	Temporary overvoltage	(See appended table B.3)	N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	S NKTESTIE	N/A
G.9.1 b)	Limiters do not have manual operator or reset	O POST	N/A
G.9.1 c)	Supply source does not exceed 250 VA:	W.C.	_
G.9.1 d)	IC limiter output current (max. 5A):	HUAKTEST	_
G.9.1 e)	Manufacturers' defined drift:	STIME TESTING	_
G.9.2	Test Program 1	O Hran O H	N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3	THE THE	N/A
G.10	Resistors	KITEST HUAKTESTIN	N/A
G.10.1	General requirements	. · ·	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	TESTIN O HUBITESTIN	N/A
G.10.3.1	General requirements	G KESTING	N/A
G.10.3.2	Voltage surge test	O HULL	N/A
G.10.3.3	Impulse test	76 O W	N/A
G.11	Capacitor and RC units	- WAKTES III	N/A
G.11.1	General requirements	ESTING OF TESTING	N/A
G.11.2	Conditioning of capacitors and RC units	White OH	N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
HUAKTESTING	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	TEST WOLLD WITH TEST WE	N/A
TESTING	Type test voltage Vini	C WESTING	
	Routine test voltage, Vini,b:	Milan Jakr	_
G.13	Printed boards	ang O H	N/A
G.13.1	General requirements	- WAY TESTIN	N/A
G.13.2	Uncoated printed boards	TESTING	N/A
G.13.3	Coated printed boards	O HINE ON	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
HUAKTESTING	Compliance with cemented joint requirements (Specify construction)	TESTING HUAY TESTING	_
G.13.5	Insulation between conductors on different surfaces	TESTING	N/A
	Distance through insulation	(See appended table 5.4.4.5)	N/A
. (Number of insulation layers (pcs)	0 110	
G.13.6	Tests on coated printed boards	JAKTESTI	N/A
G.13.6.1	Sample preparation and preliminary inspection	SIMG WILL	N/A
G.13.6.2a)	Thermal conditioning	HUAKTE	N/A
G.13.6.2b)	Electric strength test	9	N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals	K TESTING	N/A
G.14.1	Requirements	(See G.13)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.15	Liquid filled components		N/A
G.15.1	General requirements	"IAK TESTIN"	N/A
G.15.2	Requirements	0 0	N/A
G.15.3	Compliance and test methods	TESTING	N/A
G.15.3.1	Hydrostatic pressure test	HIAR.	s ^{MS} N/A
G.15.3.2	Creep resistance test	White a	N/A
G.15.3.3	Tubing and fittings compatibility test	AKTESTING	N/A
G.15.3.4	Vibration test	, OHO	N/A
G.15.3.5	Thermal cycling test	HUANTE	N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	NY TESTING	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	O NO.	N/A
o) ^{5 m}	Impulse test using circuit 2 with Uc = to transient voltage:	HUANTETTI	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	TSTING NUMBER	N/A
C2)	Test voltage	HUAK	_
D1) HUAK TEST	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	WHATESIN ON	N/A
D2)	Capacitance:		_
D3)	Resistance:	NG X TESTING	_
H	CRITERIA FOR TELEPHONE RINGING SIGNALS	.400"	N/A
H.1,1111	General	TING	N/A
H.2	Method A	HUAKTES	sm [©] N/A
H.3	Method B	HUAN	N/A
H.3.1	Ringing signal	TESTING	N/A
H.3.1.1	Frequency (Hz)	HUND	_
H.3.1.2	Voltage (V)	HUANTESTIN	_
H.3.1.3	Cadence; time (s) and voltage (V)		_
H.3.1.4	Single fault current (mA)::		_
H.3.2	Tripping device and monitoring voltage:	TESTING	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	O Hope	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)	WESTING OF LESTING	
J	INSULATED WINDING WIRES FOR USE WITHOUT	~	N/A
-STING	General requirements	(See separate test report)	N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance	(See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
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	DC connector	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
M	EQUIPMENT CONTAINING BATTERIES AND T	HEIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
M.3.3	Compliance	(See appended Tables and Annex M and M.4)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		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.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	N/A
M.4.2.2 b)	Single faults in charging circuitry	(See Annex B.4)	_
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		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	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA):		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume <i>Vz</i> (m³/s):		_
M.8.2.3	Correction factors		
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used	Pollution degree considered	
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:		_
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements	No openings	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

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

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AKTESTING	IEC 62368-	1 TESTING WESTING	MAX TESTING (
Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	verdict
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Cheesecloth did not ignite		N/A
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

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V TESTING	, TETHE WAY	IEC 62368-1	INC O HU	3	LAK TESTING
Clause	Requirement + Test	(a)	Result - Remark	.	Verdict

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
T.3	Steady force test, 30 N	(See appended table T3)	N/A
T.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
T.6	Enclosure impact test	(See appended table T6)	N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test	(See appended table T7)	N/A
T.8	Stress relief test	(See appended table T8)	N/A
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		
	Height (m)		
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		_
U	MECHANICAL STRENGTH OF CATHODE RAY 1 AGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen	(See Annex T)	N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	IGERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment		N/A
V.2	Accessible part criterion		N/A

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N TES	TING WATESTING MILITARY	IEC 62368-1	TESTING	AN TESTING
Clause	Requirement + Test	Result - Remark	(a)	Verdict

4.1.2	TABLE: List of critic	al components	TING	TING		P
Object/part No.	Manufacturer/ Type/model trademark		Technical data	Standard (Edition / year)	Mark(s) of conformity1)	
PCB	Fai Wong Electronic Pcb Co.	FW-4	V-0, 130°C, min. 1.0mm	EN 62368-1	UL E171766 ar tested with appliance	
Plastic enclosure LG Chemical Ltd.		AF312C	V-0, 70°C, min. thickness: 1.5mm	UL94	UL E671 and teste appliance	ed with

Supplementary information:

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



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NY TESTING	JAKTESTING W	IEC 62368-1	SELING WALESTING	WAKTESTING (B)
Clause	Requirement + Test	0	Result - Remark	Verdict

4.8.4, 4.8.5	TABLE: Li	thium coin/button cell batterie	es mechanical tests	N/A
5)	ing mechanical	tests are conducted in the seque	nce noted.)	(632)
4.8.4.2		ress Relief test	A TESTIN	_
	Part	Material	Oven Temperature (°C)	Comments
NG	0	THE STATE	W.C.	
4.8.4.3	TABLE: Ba	ittery replacement test	HUAKTESTA	
Battery par	rt no		NAX TESTING	_
Battery Ins	tallation/withd	rawal	Battery Installation/Removal Cycle	Comments
			1	
			2	TING
			3 HUNKTER	HUAKTE
			4	
			5 MESTINE	, NG
			6	JUAK TESTIL
			8	
			9	
V TEST	NG AKTEST	INTESTING	10	AK TESTING (
4.8.4.4	TABLE: Dro	op test		_
Impact Are	ea	Drop Distance	Drop No.	Observations
TESTING		STING TESTING	TESTING 1 TESTING	TESTING
HURK	W HUNK	Mark ,	2 Minutes	MINAK.
TING		TING	3	
4.8.4.5	TABLE: Im	pact	TESTING HUANTES.	_
	per surface	Surface tested	Impact energy (Nm)	Comments
14.	•	OKTESTIN	AKTESTIV	
-cT	NG TEST	NG ONTH	TESTING OF THE	TESTING
HUAKTES	HUAN	HUARTE	HUAK TES	MINN .
4.8.4.6	TABLE: Cr	ush test		_
Test	Test position Surface tested		Crushing Force (N)	Duration force applied (s)
HUAN	HUAN	HURO	MINN.	HUAN
				7=7

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			IEC 62368-1			
Clause	9	Requirement + Test	0,	Result - Rer	nark	Verdict
4.8.4, 4.8.5	TABLE:	Lithium coin/button cell	batteries mecha	nical tests	ESTING	N/A
(The follow	ving mechanic	cal tests are conducted in the	ne sequence noted	.)		
Supplemer	ntary informat	ion:			G	
4.8.5 T	ABLE: Lithiu	ım coin/button cell batte	ries mechanical	test result		N/A
Test po	osition	Surface tested		Force (N)		ion force lied (s)
		- MAKTEST		- JUAKTEST		
Supplemer	ntary informat	ion:	ESTING WIEST	THE WILLIAM	TESTING	V.TESTING
HUAKIL	HUAN	HUAN	HUMA	HI HIL	DIE .	Obr.

5.2	Table: 0	Classification of	electrical energy	/ SOURCAS		(03)		P	
				Sources				'	
5.2.2.2 -		e Voltage and Cu	Tent conditions						
	Supply	Location (e.g.			Para	meters			
No.	Voltage	circuit designation)	Test conditions	0		l pk or Arms)	Hz	ES Class	
1	3VDC	Input to	Normal	3VDC	(B) Y	New	- KTES	ING	
	O HUAN	accessible	Abnormal	3VDC			(I) HO	ES1	
	.1G	parts	Single fault – SC/OC	3VDC	MAKTES	-			
5.2.2.3 -	Capacitance	Limits							
	Supply	Location (e.g.		Paramete			neters		
No.	Voltage	circuit designation)	Test conditions	Capacitance	e, nF	Upk	(V)	ES Class	
- OKTEST		NX TESTING	Normal	- OKTESTING		- OKTESTING	OK TESTING		
	(a)	Or.	Abnormal	- O HO	-	HO.	O "		
	26	(MG	Single fault – SC/OC	STING		JAKTESTING	25	ING	
5.2.2.4 -	Single Pulse	S							
	Supply	Location (e.g.			Paran	neters			
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk	(V) I	pk (mA)	ES Class	
HUAK"	- HUE		Normal	HUAR.		HUNKTE	HUP		
			Abnormal	-				1	
	NG	STING	Single fault – SC/OC	STING		STING		STING	

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AKTESTING	"IAK-TESTING OF "	IEC 62368-1	OK TESTING		JAK TESTING
Clause	Requirement + Test	0	Result - Remark	.	Verdict

5.2.2.5	5 - Repetitive F	Pulses					
NI	Supply	Location (e.g.	Tank and differen		Parameters		F0 01
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
K TESTING			Normal		- AKTESTI		- JG
Ustr	"IAKT	STITULE	Abnormal	"JAK TESTING	- O HOM	- UAKTE	Time
TNG	WHY ARCI.	and a	Single fault – SC/OC		- K. LESTING		

Test Conditions:

Normal -

Abnormal -

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

	TWG											TING
5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperatu	re measure	men	ts	HUAKT	EST		0	HUAK TES		(1) H	P
TESTING	Supply voltage (V)	G	:		-	-		;	3VDC			_
The second	Ambient T _{min} (°C)	UAR	:	OKTE	STING			23.1	25.	0	OK TEST	<u> </u>
IG OF	Ambient T _{max} (°C)	-NG						23.9	25.0	0	(1) HO	_
Maximum meas	sured temperature T of	part/at:						T (°C	()			Allowe d T _{max} (°C)
PCB	9	9		_				30.4	32.	3	<u></u>	130
Plastic enclosur	е					-		25.6	27.	5		70
Supplementary	information:	AK TESTING		•	ak T	ESTING			N TESTI	1G		AK TESTING
Temperature T	of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂	(°C)	R	2 (Ω)	T (°C)		Allowed	Insulatio n class
IK TES	STING	WAY TES!			TING			THUR!	TEST		-6	IN ^G
Supplementary	information: N/A	- 1	690	HUAKTE							HUAKTE	
-			7000							_	(500)	

5.4.1.10.2 TAB	LE: Vicat soften	ing temperature of the	rmoplastics	all C	N/A
Penetration (mm)			HUAKTES	WAKTEST H	_
Object/ Part No./Material			Manufacturer/t rademark	T softening (°C)	
TING	STING	CTING	- CTING	STING	TING
supplementary inf	ormation:	HUAKTE	HUAKTES	HUAKTE	WAKTE

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AK TESTIN	JAK TESTING		IEC	62368-1	We Co		TESTING	IAK TESTING
Clause	O F	Requirement +	Test		Res	sult - Rema	ark	Verdict
5.4.1.10.3	TABLE: Ball pre	ssure test of	thermopla	estics	.vG		NG.	N/A
Allowed imp	ression diameter	(mm)		: TAKTE	STILL	MAKTES	THE STATE OF THE S	_
Object/Part	No./Material	Manufacturer	/trademark	Test	temperature	(°C) Ir	mpression dia	meter (mm)
TESTING		TE	STING			TESTING		
Supplement	ary information:	MINN.		AK TESTING	0	HOM	TAX	STINE
.G	3 m	- \G	6	Ho		a)G	(I) HO	
5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimu	ım Clearance	es/Creepaç	ge distance	MG HUAKT	ESTIL	TESTING	N/A
	cl) and creepage) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
" LAK TESTING	JAKTESTING	200	X TESTING	LAKTE	TING	" IAK TES	TING.	HAKTESTING
Supplement	ary information:	0		0		0	0	40

Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group

Note 1: Only for frequency above 30 kHz

5.4.2.3	TABLE: Minimum Cle	l voltage	N/A		
TEST	Overvoltage Category	/ (OV):	TESTING (III)	TESTING	K TESTING
HUAN	Pollution Degree:	HUAN OHUM	0	HUAN	MON.
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measu	red cl (mm)
TESTING	TESTING	TESTING	TESTING	TESTING	TESTING
Suppleme	ntary information:	O HUN.	O HI	Jbn.	MINN.

5.4.2.4	TABLE: Clearances base	TABLE: Clearances based on electric strength test				
Test volta	ge applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No		
	INC MUNKTES!	J.G.	THE WAYTES !			
Suppleme	ntary information:	HUANTESTINE	TESI TESI	UAN TESTINE HUAN TESTING		

5.4.4.2,	TABLE: Distance thr	ough insulation	measurements	16	N/A
5.4.4.5 c)	AK TESTIME				AKTESTING
5.4.4.9	HUM	HUM	HUM	O HUM	HOM

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X TESTIN	G LAK TES	Unag (B)	V TES	EC 62368-1	We Co	V TEST	NG	LAK TESTING
Clause	(a)	Requireme	ent + Test	(a)	Resul	t - Remark	9	Verdict
Distance th insulation d			voltage V)	Frequency (kHz)	Material	Required I (mm)	DTI	DTI (mm)
HUAN	M HUAR		HUAN	MAN HUAN		HUAL	0	HUAT
Supplemen ⁴	tary information	 on:	y TESTING	10		TESTING		-6
Опристе	TOTAL TESTINE	O11.	War	LAK TESTING	(m)	bre	MAKT	STING
5.4.9	TABLE: Ele	ectric strengt	h tests	O HO.		nIG	O HO.	N/A
Test voltage	e applied betv			Voltage shap	pe Tes	t voltage (V)		reakdown Yes / No
HUAK .	(C) HUAN		HUAK	MI HUAN		HUAK.	1 1 1 1	7bis
Supplement	tary informati	on:	G.		, iG			"G
MAK TESTIN	MAKT	ESTIT	MAKTESTIN	WAKTE	STILL	MAKTESTI		MAKTESTIN
5.5.2.2	TABLE: Sto	ored discharg	ge on capaci	itors	-	9	0	N/A
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)		Measured (after 2 se	_	ES Cla	ssification
G	9		MIG			NG.	9	
		HUAK TE			HUAKTES		***	-6 (
AKTESTIN'	MAKTES	Un.	OKTEST	NG WAY TEST		NY TESTI	NG.	LAK TESTING P
X-capacitor Delegin	tary informati s installed for g resistor rati	r testing are:	O HO	0	W.	Mr. This	0.	TING
□ ICX: Notes:	MILAN T							
B. Operatir	eutral; Phase	abbreviations:		; and/or Neutra		e fault condit	tion HUAKT	
P		XTE.	STING		WTEST	Inc	100	
5.6.6.2	TABLE: Res	sistance of p	rotective cor	nductors and t	erminations	T	NG	N/A
A	ccessible par	t	Test current (A)	t Durati (min		Itage drop (V)	Res	sistance (Ω)
TING		TING	TING		TING	TING		TING
OK TES	7.80	Çin .	N. TES	AK TE	9.	AK TES	 	W. LES

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Supplementary information:



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OK TESTING	LAKTESTINE (III)	IEC 62368-1	N TESTING	LAK TESTING
Clause	Requirement + Test	(a)	Result - Remark	Verdict

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive	part	HUAKTESTING	N/A
Supply vo	Itage		- G	_
Location		IEC 60990 or in IEC 60990	ns specified in 6.1 of r Fault Condition No clause 6.2.2.1 2.8, except for 6.2.2.7	Touch current (mA)
	HARTES!		HINAKT ESS	
		JAK TESTITUE	2*	MAKTESTING (Q)
			3 (h)	
			4	
		TNG.	5	Olm
		HUAKTES	6 MAKES	WAY TES!
		(D)	8	

Supplementary Information:

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

6.2.2	Та	ble: Electrical	power sources	(PS) measurements fo	or classification	N/A
Source		Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
	COD Y	UAKTES		HUAKTE	0	HUAKTE
					ESTING	9
	ı.Ca	miG (o me	HUNK	myG 🔐

Supplementary Information:

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

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NYTESTING	WAKTESTING WY	IEC 62368-1	THE WEESTING	WAY TESTING (
Clause	Requirement + Test	0,	Result - Remark	Verdict

6.2.3.1	Table: Determin	Table: Determination of Potential Ignition Sources (Arcing PIS)					
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No		
	MAKTESTII	● HD.	MAK TESTIL	O HU	MAKTESTIN		
NG	.	on IG	9	nuG (

Supplementary information:

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

6.2.3.2	Table: Det	Table: Determination of Potential Ignition Sources (Resistive PIS)						
Circuit L	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		
NG	(1)	TING	(a)		ic ,			
		HUAKTES		HUAK TES				

Supplementary Information:

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

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

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

8.5.5	TABLE: High Pressure Lamp			N/A
Description		Values	Energy Source C	lassification
Lamp type	HIAKTES.	HUAKTE	_	
Manufacture	er:		_	
Cat no	······:		_	
Pressure (co	old) (MPa)	TESTING	MS_	TESTING
Pressure (o	perating) (MPa)	O HUAR	MS_	HUAR
Operating ti	me (minutes)		_	

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	MAKTESTINE W	IEC 62368-1	W TE	TING	-
Clause	Requirement + Test	0	Result - Remark	Verd	lict
Explosion method .	- G	6	à	_	
Max particle length	escaping enclosure (mm) .:	LAKTESTIL	JAKTESTII	MS_	U.
Max particle length	beyond 1 m (mm):	0	(i)	MS_	
Overall result			ESTING		
Supplementary info	rmation:	HUAKTESTING	Why we	HUAKTESTING	
G	TESTING	-	TESTING		

B.2.5	TABLE: Inpu	ut test		NG STIN	3 HUAR		-mG	P. O
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status
3	0.1	0.1	0.3			<u> </u>	Max no	rmal load
Supplement	tary informatio	n:						

B.3 T	ABLE: Abnorn	nal operating	condition t	ests	200		M HUAN		N/A
Ambient temp	erature (°C)				:	25	-mG		_
Power source	for EUT: Manuf	acturer, model	/type, outpu	ut rating	G.:	See p	age 2		_
Component N	o. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.				Observation	

Supplementary information:

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

B.4	TAB	I E. Fault oc	ondition tests	KTECH	.0	KTEET		OKTE	5/11		"IAK TEGIL"
D.4	IAE	Fauit CC	mullion lesis		HU"		1	HOL		(8)	Ho
Ambient te	empera	nture (°C)				:	25				_
Power sou	ırce foı	EUT: Manuf	acturer, mode	l/type, outp	ut rating	G.:	See p	age 2			_
Componer	nt No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		nt, (A)	T-couple	Temp (°C)	Ob	servation
D1		S-C	3VDC	10 mins		-	-			can't	appliance work, no ard, no en
U1		S-C	3VDC	10 mins		-	-			can't	appliance work, no ard, no en

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			90	0. 0_		. topo.t			12001 011
NK TESTING	MAKTESTINE		IEC 6	2368-1	ESTING	. 6	KTESTING	14	KTESTING (
Clause	(C) F	Requirement +	Test	0,	R	esult - Rem	ark	(a)	Verdict
Q1	S-C	3VDC	10 mins					-	
C26	S-C	3VDC	10 mins					-	
Supplementa S-C= short ci	ry information: rcuit	MHUAK IL	TESTING		ESTING HUA	Cin	TESTING	•	TESTING (

Annex M T	ABLE: Batte	eries							N/A
The tests of A	nnex M are	applicable	only when app	propriate b	attery dat	a is not ava	ailable		
Is it possible to	o install the b	pattery in a	reverse polar	ity position	1?	:	UAKTESTING		WAKTESTING
	Non-re	chargeable	e batteries			Rechargea	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	STW	3 O HUAKT	STING	(G	STING	HUAKTESTING		G	STING
Max. current during fault condition	HUAK		MUAKTE	O HUA		(HUAKTE	● HU	3
Test results:	N TEST	ju -	N TESTIN		N TESTIN		N TESTIL		Verdict
- Chemical lea	aks		(1) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Do.	No Chemi	cal leaks		# Jun
- Explosion of	the battery		-CTING			No Explos	ion of the	battery	
- Emission of	flame or exp	ulsion of m	olten metal	HUAKTES	UNG	No Emissi expulsion			TING
- Electric strer	nath tests of	equipment	after completi	ion of tests	<u> </u>	No broken)	9	

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NYTEST	NG HAKT	STING	NY TES	EC 62368-1	ESTING (III)	AK TESTING	"IAK TESTING
Clause	0,	Requirer	ment + Test	0	Resu	t - Remark	Verdict
Annex M.4	Table: Adbatteries	Iditional safe	guards for eq	uipment co	ntaining second	ary lithium	N/A
	ery/Cell	Test o	conditions		Measurement	s	Observation
l	No.			U	I (A)	Temp (C)	
	1 HAKTESTIN	Normal	HOM	"LAK TESTI	(a) Hr	1	MAKTESTIN
G	1	Single fault	-SC	0		,1S	
	1	Abnormal	ESTA		WAKTES		
Supplemer	ntary Informa	tion:	HUAKTEST	ING HUAK	ESTING (I)	HUAKTESTING	MAK TESTING
Batter identifica	y	narging at T _{lowest} (°C)	Observ	ation	Charging at T _{highest} (°C)	Obs	servation
HUAKTES	HUAN	TED	HUAKTES	HUP	KTPP	MAKTES	HUAKTES
Supplemer	ntary Informa	tion:	AK TESTING		.G	OK TESTING	-1G
	MAKTESTAN	0	Hom	WAKTESTE	() H	207	MAKTESTING
Annex Q.1	TABLE: (Circuits inten	ded for interd	connection	with building wi	ring (LPS)	N/A
Note: Mea	sured UOC ((V) with all loa	d circuits disc	onnected:	THIS HUAN	,Ca	mG /

Annex Q.1	TABLE: Circuits inter	nded for interco	nnection with t	ouilding wirii	ng (LPS)	N/A
Note: Meas	sured UOC (V) with all loa	ad circuits discor	nnected:	O HO.	CTING	TESTING (
Output	Components	U _{oc} (V)	I _{sc} (A	4)	S (\	/A)
Circuit			Meas.	Limit	Meas.	Limit
NY TESTING	AKTESTING	AK TESTING	NY TEST N	3	AK TESTING	AK TESTING
	ntary Information: circuit, OC=Open circuit	O HO	● HO.	0	HO	3 Ho.

T.2, T.3, T.4, T.5	TABLE	: Steady force	test				N/A
Part/Location	on	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
(1) HUND	0	,	€ HUM	0 "	€ HUM	0 "	
Supplementar	av infor	mation:	W TESTING	W TESTING	W.TES	_{ift} G	K TESTING

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			, ak TESIEC	62368-1		
Clause	0	Requirer	ment + Test	0	Result - Remark	Verdict
T.6, T.9	TABI	LE: Impact tests		a)G	- De-	N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)	Observation	

Supplementary information:

Г.7 ТАЕ	BLE: Drop tests	LAK TESTIN	WAKTES	LAKTESTIN	N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	on
a)G	a.G	a)G	Carlo	a)G	. ا
	WAKTESTA	MAKTESTI	WAKTESTI		
	9	0	0	(i)	0
Supplementary in	formation:	ESTING		ESTING	

T.8	TABL	E: Stress relief to	est	O HO.		O HO.	N/A
Part/Location		Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
O HOM	(B)	30	O HOW		() H	. O.	
Supplementa	ry info	rmation:					

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NK TESTING	WAY TESTING WY	IEC 62368-1	THE OF THE THE	WAX TESTING (III)
Clause	Requirement + Test		Result - Remark	Verdict

-Appendix 1: For requirements of European group differences.

ATTACH	MENT TO TEST REPORT IEC 6	2368-1	HOPE
EUROPEAN GROUI	P DIFFERENCES AND NATIONA	AL DIFFEREN	ICES
(Audio/video, information and co	mmunication technology equipme	nt Part 1: Safe	ety requirements)
Differences according to	EN 62368-1:2014+A11:2017	HUAK	ESTING
Attachment Form No	EU_GD_IEC62368_1B_II		HUARA
Attachment Originator:	Nemko AS		
Master Attachment	Date 2017-09-22		
Copyright © 2017 IEC System of Confe	ormity Assessment Schemes f	or Electrotec	hnical Equipment a
Components (IECEE)	V TESTING		Y TESTING

	CENELEC C	COMMON MOD	DIFICATION	NS (EN)				
LAN TESTING	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed "Z".				JAK TESTING			
CONTENTS	Add the follo	wing annexes:	442-0	0	0	Account of the Contract of the	1	N/A
M. TESTING	Annex ZA (no Annex ZB (no Annex ZC (ir Annex ZD (ir	ormative)	with the Speci A-dev	ative references and corresponding all national conditions and CENELEC co	ig European բ tions	oublications		TING
WAKTESTING	Delete all the to the following		es in the refe	erence document	t (IEC 62368-	1:2014) accordi	ng	N/A
	0.2.1	Note	1	Note 3	4.1.15	Note	33	
TESTING	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c		TESTING
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	0	Uhle.
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		un _G
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	AKTE	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		TESTING (
HUNKIL	For special r	national condition	ons, see Ar	nnex ZB.		HUAN	D HO	N/A
1	Add the follo	•						N/A
TING		use of certain subst stricted within the E		rical and electronic ve 2011/65/EU.	ç			TING

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		Page 51 01 62	Report No I	1K2U1U142887-SR
N. TESTING	JAN TESTINE (II)	IEC 62368-1	W TESTINE	" JAK TESTING
Clause	Requirement + 1	est	Result - Remark	Verdict
4.Z1	Add the following new subclaus	se after 4.9:		N/A
	To protect against excessive curearth faults in circuits connected protective devices shall be inclupants of the equipment or as partinistallation, subject to the follows:	d to an a.c. mains , ided either as integral rts of the building	WAY TESTING	NUANTESTINES
	a) except as detailed in b) and onecessary to comply with the reB.4 shall be included as parts or	equirements of B.3.1 and	I WIN	HUAKTESTING
	b) for components in series with equipment such as the supply or.f.i. filter and switch, short-circular protection may be provided by puilding installation;	cord, appliance coupler, lit and earth fault	HUAKTES I.	HINTESTING C
	c) it is permitted for pluggable opermanently connected equipment dedicated overcurrent and shor building installation, provided the protection, e.g. fuses or circuit to specified in the installation instruction.	oment, to rely on t-circuit protection in the at the means of preakers, is fully	WAY TESTING	White testing
	If reliance is placed on protectic installation, the installation instruction except that for pluggable equipolis building installation shall be regulation in accordance with the socket outlet.	uctions shall so state, pment type A the arded as providing	HUAK TESTING	HARTESTING
5.4.2.3.2.4	Add the following to the end of		- WAKTESTING	N/A
	The requirement for interconnection in EN			
10.2.1	Add the following to c) and d) in the For additional requirements, see 10.5.1		W TESTING	N/A



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-cTNG	TESTING WHITE	IEC 62368-1	-CAMC	TESTING (
Clause	Requirement + Test	The HAR	Result - Remark	Verdict
10.5.1	Add the following after the first par	ragraph:		N/A
HUAKTESTING	For RS 1 compliance is checked by under the following conditions:	- Dia	HUAL TESTING	MAKTESTING
	In addition to the normal operating controls adjustable from the outside object such as a tool or a coin, and adjustments or presets which are reliable manner, are adjusted so as radiation whilst maintaining an integet the end of which the measurements.	le by hand, by any of those internal not locked in a s to give maximum of ligible picture for 1 h	HUAN TESTING HUAN T	S.M.G
	NOTE Z1 Soldered joints and paint locking adequate locking.	s are examples of	MALAN TSTING	TESTING (
M. ARTE	The dose-rate is determined by me monitor with an effective area of 10 cm from the outer surface of the ap	0 cm², at any point 10	O HILIARTIC NA) pr.
HUAKTESTING	Moreover, the measurement shall conditions causing an increase of the provided an intelligible picture is must the end of which the measurement	the high-voltage, paintained for 1 h, at	NG HUAN TESTING	MAKTESTING
AKTESTING	For RS1, the dose-rate shall not exaccount of the background level. NOTE Z2 These values appear in Directive	-NG	LAN TESTING	SING
10.6.1	Add the following paragraph to the	e end of the	TING PHONE	N/A
	subclause: EN 71-1:2011, 4.20 and the related		MAKTES I.	TSTING (
MAK TES.	measurement distances apply.	TES. HUAKTE	MAK TES.	JAKAL
10.Z1	Add the following new subclause a	after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from in the range 0 to 300 GHz	m radio frequencies	5	
HUAKTESTING	The amount of non-ionizing radiation European Council Recommendation July 1999 on the limitation of expospublic to electromagnetic fields (0 I	on 1999/519/EC of 1 sure of the general	2 HUAN TESTING	HAR TESTING
	For intentional radiators, ICNIRP g taken into account for Limiting Exp Varying Electric, Magnetic, and Electric to 300 GHz). For hand-held and devices, attention is drawn to EN 5	uidelines should be osure to Time- ectromagnetic Fields d body-mounted	ING W	STING
G.7.1	Add the following note: NOTE Z1 The harmonized code designation IEC cord types are given in Annex ZD.	TESTING	MINATESTING OF	N/A

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MAK TESTI	IEC 623	08-1	WAKTES
Clause	Requirement + Test	Result - Remark	Verdict
Bibliography	Add the following standards:		N/A
	Add the following notes for the standards indi	cated:	V TESTING
	IEC 60130-9 NOTE Harmonized as EN	√ 60130-9.	MAN
	IEC 60269-2 NOTE Harmonized as HI	0 60269-2.	
	IEC 60309-1 NOTE Harmonized as EN	N 60309-1.	
	IEC 60364 NOTE some parts harmo	nized in HD 384/HD 60364 series	· KTESTING
	IEC 60601-2-4 NOTE Harmonized as EN	l 60601-2-4.	HUAN
	IEC 60664-5 NOTE Harmonized as EN	60664-5.	
	IEC 61032:1997 NOTE Harmonized as EN	61032:1998 (not modified).	- NG 1
	IEC 61508-1 NOTE Harmonized as EN	61508-1.	ING KTESTING
	IEC 61558-2-1 NOTE Harmonized as EN	l 61558-2-1.	W HO
	IEC 61558-2-4 NOTE Harmonized as EN	l 61558-2-4.	
	IEC 61558-2-6 NOTE Harmonized as EN	l 61558-2-6.	
	IEC 61643-1 NOTE Harmonized as EN	61643-1.	CTING
	IEC 61643-21 NOTE Harmonized as EN	61643-21.	MAKTES
	IEC 61643-311 NOTE Harmonized as EN	61643-311.	
	IEC 61643-321 NOTE Harmonized as EN	l 61643-321.	
	IEC 61643-331 NOTE Harmonized as EN	61643-331.	TESTING
ZB	ANNEX ZB, SPECIAL NATIONAL CONDIT	IONS (EN)	N/A
4.1.15	Denmark, Finland, Norway and Sweden	TESTING	N/A
	To the end of the subclause the following is a	dded:	and d
	Class I pluggable equipment type A intende		ING LAKTESTING
	connection to other equipment or a network si safety relies on connection to reliable earthing		O HO
	surge suppressors are connected between the		
	terminals and accessible parts, have a marki	ing stating	
	that the equipment shall be connected to an e	earthed	ESTING
	mains socket-outlet.	HUAKTE	MAKTE
	The marking text in the applicable countries s follows:	nali be as	
	In Denmark : "Apparatets stikprop skal tilslutte	es en	
	stikkontakt med jord som giver forbindelse til	TESTING	TESTING
	stikproppens jord."		HI AK I
	In Finland : "Laite on liitettävä suojakoskettimi varustettuun pistorasiaan"	illa	
	In Norway : "Apparatet må tilkoples jordet stik	kontakt"	- NG /
	In Sweden : "Apparaten skall anslutas till jorda	CS1"	ING INTESTING
4.7.3	United Kingdom	O tulna.	N/A
	To the end of the subclause the following is a	dded:	
	The torque test is performed using a socket-o		
	complying with BS 1363, and the plug part sh	all be	"TESTING
	assessed to the relevant clauses of BS 1363.	Aloo ooo	10%

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AK TESTING		IEC 62368-1				
Clause	Requirem	ent + Test	Re	sult - Remark	9 ,,,	Verdict
5.2.2.2		guard) for high touch cur urrent exceeds the limits		MAK TESTING	0)	N/A
5.4.11.1 and	Finland and Sweden	MAKTES.	G	HUAKTES		™ N/A
Annex G	To the end of the subclau	use the following is added:	(C)			
	For separation of the tele earth the following is app	ecommunication network folicable:	rom			
		ncluding insulation forming nall at least consist of either				IX TESTING
	• two layers of thin sheet pass the electric strength	material, each of which shatest below, or	nall			
AKTESTING		ance through insulation of I pass the electric strength				AK TESTING
NE NE	through insulation require consisting of an insulating the casing, so that cleara do not exist, if the compo	coupler), there is no distar ement for the insulation g compound completely fil ances and creepage distar	lling			^{Uni} c
	below and in additionpasses the tests and insan electric strength test of	spection criteria of 5.4.8 w of 1,5 kV multiplied by 1,6 .4.9 shall be performed us	rith (the			KTESTIVE (
	,	ting for electric strength duest voltage of 1,5kV.	ıring			a)G
	CIR	nis insulation with a capac	itor			UAKTESTING
	A capacitor classified Y3 14:2005, may bridge this conditions:	according to EN 60384-insulation under the follow	ving			TING
	capacitor classified Y3 as	ents are satisfied by having s defined by EN 60384-14 '3 testing, is tested with ar fined in 5.4.11;	,			.6. @
	• the additional testing sh specimens as described	nall be performed on all the in EN 60384-14;	e test			K IESTING
		/ is to be performed before 384-14, in the sequence of 60384-14.				

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NK TESTING	IEC 62368-1	NY TESTING	AK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are	THE HUAKTESTING	N/A
	required to be rated for the applicable line-to-line voltage (230 V).	STING	
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added:	HUART	N/A
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	NG WAY TESTING	-STING
5.6.1	Denmark Add to the end of the subclause	HUANTES	N/A
	Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	THE DIFFERENCE OF THE HUAYTESTING	JAK TESTING
5.6.4.2.1	Ireland and United Kingdom	HUMA	N/A
	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, the being the largest rating of fuse used in the mains plug	nis Markette	ATESTINE (
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	THE HUAY TESTING	N/A
5.7.5 MCTESTING	Denmark To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	HUAKTESTING NUAKTE	N/A



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

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NK TESTINI	IEC 62368-1	NK TESTING	JAK TESTILL
Clause	Requirement + Test	Result - Remark	Verdict
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits	HUAKTESTING	N/A
	in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	HUANTESTING HUANT	THE STATE
G.4.2	Denmark	JAK TESTING	N/A
	To the end of the subclause the following is added:	O Ho.	
	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.	C STING	TIME
	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.	O HUAKTED	ANAN TEL
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	WAY TETING HUAY	
	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.	WHATESTINE WH	JAK TESTING
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	"IAK TESTING	JAKTESTING
	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	WTESTING	
po-	Justification: Heavy Current Regulations, Section 6c	O HUAN	ESTIME
G.4.2	United Kingdom	TESTING	N/A
	To the end of the subclause the following is added:	HUAK.	ING M
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated	O HUAN TESTINE O H	Just TESTI.
	Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	JAKTESTING	AK TESTING

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100	C -CITIC WINN	Page 58 01 62	HUM	.2010142887-SR
WAK TEST	HIAK TED HUM	IEC 62368-1	HUAK TESTI	MAKTES
Clause	Requirement + Tes	st 🤍	Result - Remark	Verdict
G.7.1	United Kingdom			N/A
	To the first paragraph the following	g is added:	V TESTING	X TESTING
	Equipment which is fitted with a fle		HUAN	MUAN
	and is designed to be connected t			
	conforming to BS 1363 by means or cord shall be fitted with a 'stand		N. TESTING	-G
	accordance with the Plugs and Sc	ockets etc (Safety)	(C) HUAN	OK TESTIMO
	Regulations 1994, Statutory Instru		6	HILA
	unless exempted by those regulat NOTE "Standard plug" is defined in SI 176		TESTING	
	means an approved plug conforming to BS		HUAN.	TING
- JAKTESTIN	conversion plug.	KTESTING - JUNY TEST	. IAK TESTING	- JUN TEST. V
G.7.1	Ireland		O HO.	N/A
	To the first paragraph the following Apparatus which is fitted with a fle			
	shall be provided with a plug in ac		.1G	16
	Statutory Instrument 525: 1997, "1	13 A Plugs and	AKTESTINA	AKTESTING
	Conversion Adapters for Domestic		() HOW	(a) ko
	1997. S.I. 525 provides for the reconfidence of another Member State which is		a)G	
	relevant Irish Standard	Pilm	LAKTESTING	TNG
G.7.2	Ireland and United Kingdom	HUAK TEST		N/A
	To the first paragraph the following		TUG (II)	
	A power supply cord with a condu allowed for equipment which is rat		- JUAK TEST	
	to and including 13 A.	ed over 10 A and up	O F.	TESTING
ZC	ANNEX ZC, NATIONAL DEVIAT	IONS (EN)	HUNYTE	N/A
10.5.2	Germany			N/A
	The following requirement applies	s:		
	For the operation of any cathode it		Y TESTING	V TESTING
	the display of visual images opera acceleration voltage exceeding 40		HUAN	MAN
	required, or application of type ap			
	(Bauartzulassung) and marking.	G	AN TESTINE	G
	Justification:	AK TESTING	HUAD	OK TESTING
	German ministerial decree agains			HOLE
	(Röntgenverordnung), in force sin implementing the European Direct		TESTING	
	96/29/EURATOM.	Olm St.	HUAK.	TNG A
	NOTE Contact address:	tundanallan 100	AK TESTING	WAX TESTIN P
	Physikalisch-Technische Bundesanstalt, B D-38116 Braunschweig,	unuesallee 100,	(HILL	O "
	Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de			
	momor mp.//www.ptb.ue			

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-Appendix 2: Photo document.

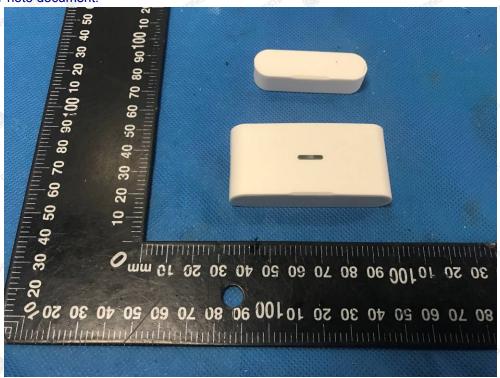


Photo 1: Overall view

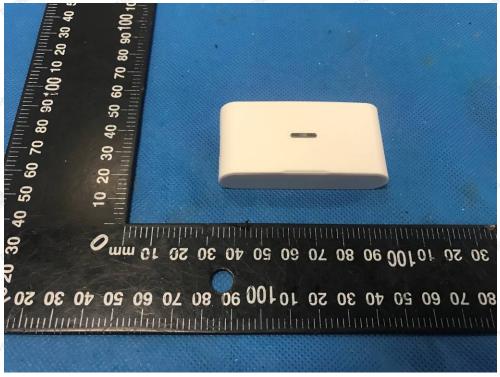


Photo 2: Side view

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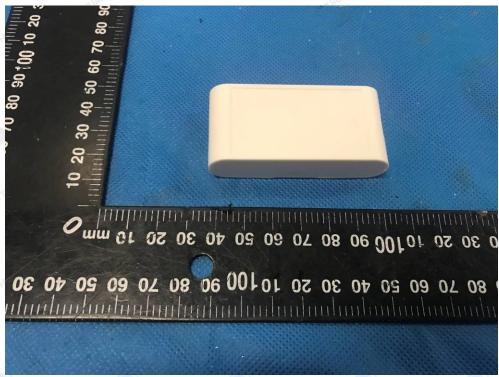


Photo 3: Side view



Photo 4: Side view

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Photo 5: Side view

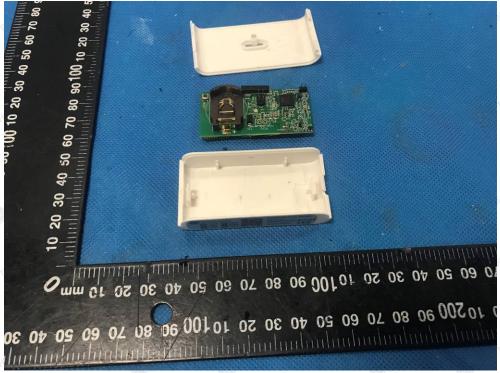


Photo 6: Internal view

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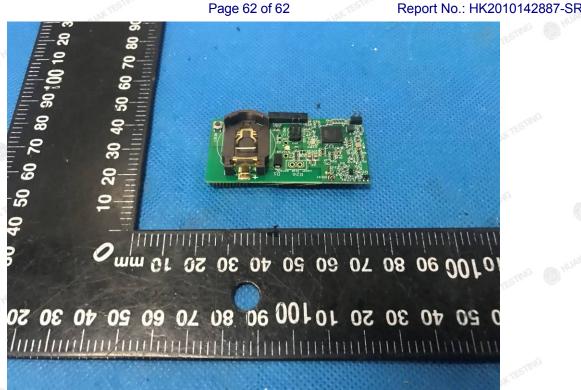


Photo 7: PCB view

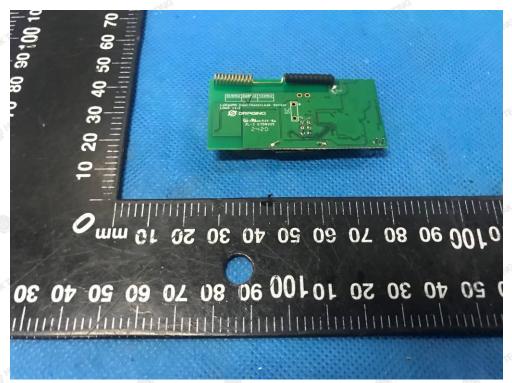


Photo 8: PCB view

End of report-

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