

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for:

Shenzhen IDMIX Innovative Products Co., Ltd.

Room 1401, 3D Building, TianAnYunGu, XueGang Road 2018#, Bantian Street,

Longgang District, Shenzhen, China

Product: Night light with wireless charging base

Trade Name: IDMIX

Model Name: D6, DM06

Date of Test: May 17, 2020 to May 26, 2020

Date of Report: May 26, 2020

Report Number: HK2005201011-SR

Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community,

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TEST REPORT IEC 62368-1

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

Report Number: HK2005201011-SR

Date of issue: 2020-05-26

Total number of pages.....: 64

Applicant's name.....: Shenzhen IDMIX Innovative Products Co., Ltd.

Address...... Room 1401, 3D Building, TianAnYunGu, XueGang Road 2018#,

Bantian Street, Longgang District, Shenzhen, 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

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

Master TRF...... 2014-03

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General disclaimer:

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

Test Item description	Night light with wireless charging base
Trade Mark	: IDMIX
Manufacturer	Shenzhen IDMIX Innovative Products Co., Ltd.
Manufacturer Address	Room 1401, 3D Building, TianAnYunGu, XueGang Road 2018 Bantian Street, Longgang District, Shenzhen, China
Model/Type reference	: D6, DM06
Ratings	Input: 5VDC, 2A or 9VDC, 2A Output: 5VDC,1A or 9VDC, 1.1A

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-UNE - WIND	HUA.	- JUAK "	HUAN
Testing procedure and testing location:	(9)	0	
☐ Testing Laboratory:	Shenzhen HUAK Testir	ng Technology Co.,	Ltd.
Testing location/ address::	1F, B2 Building, Junfen Park, Heping Communi Shenzhen, China		
Associated Testing Laboratory:		TESTING	
Testing location/ address:	MAKTESTING	25TING	· CEA
Tested by (name + signature)::	Jason Cheng	Jens HEPRI	EICATION
Approved by (name + signature):	Dendi Wei	Dendo	
Testing procedure: TMP/CTF Stage 1:	. KTESTING	V TESTING	v TESTING
Testing location/ address:	● Home	O WAR	Maar.
Tested by (name + signature):	-CTING	WAKTESTING	CTING
Approved by (name + signature):	HUANTE	9	HUAKTE
☐ Testing procedure: WMT/CTF Stage 2:	G MC MU	br.	THIS .
Testing location/ address:	O MAKTE	HUAN TES I	HUANTEE
Tested by (name + signature):			
Witnessed by (name + signature)::	TESTING	TESTING	TESTING
Approved by (name + signature):	O HILAN.	O HUAN.	O HUAN.
Testing procedure: SMT/CTF Stage 3 or 4:	JAK TESTIVE	MUNK TESTIN	JAKTESTING
Testing location/ address:		AK TESTING	D race
Tested by (name + signature):	TIME Y TESTING ME	TSTING	y TESTING
Witnessed by (name + signature):	O HUM	HUAK	O HOVE
Approved by (name + signature):			
Supervised by (name + signature):	· TRIG	-TING	-TIVC

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List of Attachments (including a total number of pages in each attachment): -Appendix 1: For requirements of European group differences. (9 pages) -Appendix 2: Photo attachments. (4 pages) Summary of testing: Tests performed (name of test and test clause): All clauses. Testing location: Shenzhen HUAK Testing Technology Co., Ltd. 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China Summary of compliance with National Differences: European group differences.

☑ The product fulfils the requirements of EN 62368-1:2014+A11:2017

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Copy of marking plate:

The artwork below may be only a draft.

IDMIX

Night light with wireless charging base

Model: D6

Input: 5VDC, 2A or 9VDC, 2A

Output: 5VDC, 1A or 9VDC, 1.1A



Shenzhen IDMIX Innovative Products Co., Ltd.
Room 1401, 3D Building, TianAnYunGu, XueGang Road 2018#,
Bantian Street, Longgang District, Shenzhen, China

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TEST ITEM PARTICULARS:	14 miles
Classification of use by:	○ Ordinary person ○ Ordinary pe
	☐ Instructed person
and and and	☐ Skilled person
WAKTESTIN WAKTESTIN	☐ Children likely to be present
Supply Connection ::	☐ AC Mains ☐ DC Mains
ESTING ESTING	External Circuit - not Mains connected
KAL HUMELL	- ☑ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	<u>+10%/-10%</u>
G TESTING	+20%/-15%
MG MARKET	<u>+</u> %/%
W.ESTING WATESTING	None
Supply Connection – Type:	pluggable equipment type A -
	non-detachable supply cord
	appliance coupler
WESTING IN TESTING	☐ direct plug-in ☐ mating connector
HOW O HOW	☐ pluggable equipment type B -
TING TING	non-detachable supply cord
TES!	appliance coupler
HUNK TEST	permanent connection
G W	☐ mating connector ☒ other:
Considered current rating of protective device as part of building or equipment installation	A;
or building or equipment installation	Installation location:
Equipment mobility:	
	in rack-mounting wall-mounted
Over voltage category (OVC)	
AKTESTING AKTESTING	OVC IV Souther:
Class of equipment	☐ Class I ☐ Class II ☐ 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	☐ IP
Power Systems	☑ TN ☐ TT ☐ IT V _{L-L}
Altitude during operation (m):	
Altitude of test laboratory (m)	
Mass of equipment (kg):	
POSSIBLE TEST CASE VERDICTS:	O HUM
- test case does not apply to the test object	N/A

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	MA			AM	
- test object does	meet the requirement	nt:	P (Pass)		
- test object does	not meet the require	ment:	F (Fail)	HUAKTES	HUAK
GENERAL REMA	ARKS:			9	
	#)" refers to addit table)" refers to a t			report.	V TESTING
y - \	report a 🗌 comm	(300)		- (00)	MUAN
TNG	cable OSM decision		•		
Determination of and methods.	the test result includ	les consideration	of measurement un	certainty from the to	est equipment
Manufacturer's	Declaration per sub	-clause 4.2.5 of	ECEE 02:		HOPE
includes more that declaration from the sample(s) submitted representative of	or obtaining a CB Test an one factory location the Manufacturer state ted for evaluation is (the products from ea	n and a ting that the (are) ach factory has	☐ Yes ☑ Not applicable	AK TESTING HUAK TESTING	WAKTESTING (
When difference	es exist; they shall b	e identified in th	ne General product	information section	on.
Name and addre	ess of factory (ies).	MATESTING	Same as Manufacto	urer HARVESTING	WANTES!
GENERAL PRO	DUCT INFORMATIO	ON:			
external enclosur	otion – ght light with wireles re is plastic material suitable connected	of min. V-1 grade	- MAKIESTING MA		nounted on PCB,
Maximum recom	mended ambient (Tr	nra): 25°C			
HUAKTESTING					
Model Difference	es –	9	9		3
	entical, only different e model for full tests.		me and appearance	, so the model WCF	P010 is selected
Additional appli N/A	cation consideration	ons – (Considera	ations used to test	a component or s	ub-assembly) –

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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 for 5VDC 2A input	PS1		
All source for 9VDC 2A input	PS2		

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

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

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2

Source of kinetic/mechanical energy		Corresponding classification (MS)
Sharp edges and Comers		MS1
Equipment mass (<7kg)	-mG	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 TS1

Source of thermal energy	O	Corresponding classification (TS)
All source	TING	TS1

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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ate which operay cou		Y SOURCE DIAGRAM		nelow.
ate which energy sou	urces are included in the	e energy source diagrar	n. Insert diagram t	Delow
	⊠ ES ⊠ PS	⊠ MS ⊠ TS	□ RS	
STING HUAY TEST	THIS HILLY TESTIN	HIAN TESTING	WAY TESTIV	HUAK TESTING

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OVERVIEW OF EMPLOYED SAFE	GUARDS				
Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	ES1: All source	N/A	N/A	N/A	
JAY TESTING	AUA LOK TESTING	O HU	(0)	TESTING	
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 for 9VDC 2A input	PS2: All source	N/A	N/A	N/A	
All combustible materials within equipment for 5VDC 2A input	PS1: All source	NG.	TING	TING	
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	
e O''	THE THE		1C (1)		
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 corners	N/A	N/A	N/A	
HUAKTE	HUAKTE		HUAKTE	HUAKTES	
9.1	Thermal Burn				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary	TS1: All source	N/A	o N/A	N/A	
10.1	Radiation				
Body Part	Energy Source	Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
Supplementary Information:	1	1	1	1	

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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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	STING
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	AK TESTIPE
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 and barrier tests	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 TING	N/A
4.6.1	Fix conductors not to defeat a safeguard	MAKIE	N/A
4.6.2	10 N force test applied to		N/A
4.7	Equipment for direct insertion into mains socket - outlets	HLAKTESTING	N/A
4.7.2	Mains plug part complies with the relevant standard	THE HUMBER	N/A
4.7.3	Torque (Nm)	ING HUAKTE	N/A
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.2	Instructional safeguard	(a) 1/2 (b) 1/2 (c) 1/	N/A
4.8.3	Battery Compartment Construction		N/A
" LAK TESTING	Means to reduce the possibility of children removing the battery	TESTING THE THE	_
4.8.4	Battery Compartment Mechanical Tests:	(See Table 4.8.4)	N/A

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	F HUNKTEST	Page 12 of 64	Report No.: HK2	005201011-SR
N TESTIN	G JAK TESTING W	IEC 62368-1	N TESTING	"IAX TESTING
Clause	Requirement + Test	0,,	Result - Remark	Verdict
4.8.5	Battery Accessibility			N/A
4.9	Likelihood of fire or shock due to ent conductive object	- uller	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:	9VDC Max.	P av TESTING
5.2.2.3	Capacitance limits	O HUM.	N/A
5.2.2.4	Single pulse limits:	No such single pulses with the EUT	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses with the EUT	N/A
5.2.2.6	Ringing signals:	No such ringing signals with the EUT	N/A
5.2.2.7	Audio signals	No such audio signals with the EUT	N/A
5.3	Protection against electrical energy sources	O NO - MAKE	Р
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.	AK TEST P
5.3.2.2	Contact requirements	0,,	Р
TESTING	a) Test with test probe from Annex V:	The probe could not insert into the equipment as there is no ventilation on the product.	P
HUAR	b) Electric strength test potential (V):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
NG.	c) Air gap (mm):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals intended to be used by ordinary person.	N/A
5.4	Insulation materials and requirements	HUAKTES	P
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 _{NUG}

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	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	- WAKTES!	N/A
5.4.1.7	Insulation in circuits generating starting pulses	STANG TESTANG	N/A
5.4.1.8	Determination of working voltage	HILAND WHI	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	HUAKTES	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
TESTIN	a) a.c. mains transient voltage:	TESTING	_
MINNE TO HUNDER	b) d.c. mains transient voltage:	O Harry O H	_
	c) external circuit transient voltage:		
A TESTING	d) transient voltage determined by measurement	TESTING WITETING	_
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:	HUARTES IN	N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	N/A
5.4.3.1	General	LOK TESTINES	N/A
5.4.3.3	Material Group:	IIIb Santa	
5.4.4	Solid insulation	HILANTE ON	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	.0	N/A
5.4.4.4	Solid insulation in semiconductor devices	TESTING CONTESTING	N/A
5.4.4.5	Cemented joints	(i) , ₁₁₎ ,	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements	TESTING LAW TESTING	N/A
5.4.4.6.2	Separable thin sheet material	0, 0	N/A
ESTING	Number of layers (pcs):	TS/MVG	N/A
5.4.4.6.3	Non-separable thin sheet material	WINDS TO	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	ING HUAK I	N/A
5.4.4.7	Solid insulation in wound components	S. A. A. TESTING	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:	0, 0	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General	STING	N/A
5.4.5.2	Voltage surge test	HAREL	N/A
	Insulation resistance (MΩ):		_
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	TETHE MIN	N/A
5.4.8	Humidity conditioning	TING HUAR.	N/A
WAK TEST	Relative humidity (%): Temperature (°C):	WAY TEST II	_
9	Temperature (°C)	0	_
	Duration (h)		_
5.4.9	Electric strength test:	(See appended table 5.4.9)	N/A
5.4.9.1	Test procedure for a solid insulation type test	O HURA	N/A
5.4.9.2	Test procedure for routine tests	, NG	N/A
5.4.10	Protection against transient voltages between external circuit	MALAKTES	sinil [©] 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	WAKTEST	N/A
5.4.10.2.1	General	STIME TESTING	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	O MILE	N/A

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Y TESTIN	IEC 62368-1	ESTING WESTING	IK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.2	Requirements		N/A
LAKTESTING	Rated operating voltage U _{op} (V):	TESTING LAKTESTING	
N. W.	Nominal voltage U _{peak} (V):	0,,	_
ESTING	Max increase due to variation U _{sp} :	STIVE	_
The state of the s	Max increase due to ageing ΔU _{sa} :	White T	
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:	(S) House	_
5.5	Components as safeguards	NATES TRACE	
5.5.1	General	TIME OF THE	N/A
5.5.2	Capacitors and RC units	HINKE ON	N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(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	THE HUBIC	N/A
5.5.7.2	Use of an SPD between mains and protective earth	WANTES II.	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	TESTING	N/A
5.6.2	Requirement for protective conductors	O HUNG	N/A
5.6.2.1	General requirements	THE	N/A
5.6.2.2	Colour of insulation	C HUAN TESS	N/A
5.6.3	Requirement for protective earthing conductors	HUAK	N/A
NG ,	Protective earthing conductor size (mm ²)	TESTING	_
5.6.4	Requirement for protective bonding conductors	THIS HUMB	N/A
5.6.4.1	Protective bonding conductors	- WAYTESIA	N/A
.	Protective bonding conductor size (mm²)	0,	
	Protective current rating (A):		_
5.6.4.3	Current limiting and overcurrent protective devices	TESTING WAY TESTING	N/A
5.6.5	Terminals for protective conductors	-	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.6.5.1	Requirement	Dr. Dr.	N/A
HUAKTESTIL	Conductor size (mm²), nominal thread diameter (mm).	TESTIN WANTES IN	N/A
5.6.5.2	Corrosion	ang	N/A
5.6.6	Resistance of the protective system	HUAKTES	N/A
5.6.6.1	Requirements	HUAKT	N/A
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	N/A
5.6.7	Reliable earthing	THE HUAR	N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A
5.7.2	Measuring devices and networks	0,	N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage	TSTING TSTING	N/A
5.7.3	Equipment set-up, supply connections and earth connections	O HUDIE C	N/A
JK TESTING	System of interconnected equipment (separate connections/single connection)	HANTESTING	_
WG	Multiple connections to mains (one connection at a time/simultaneous connections)	THE NAME OF PRINCE	_
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current	STILL OF TESTING	N/A
O HUM	Supply Voltage (V)	O HUND ON	
	Measured current (mA)		
-m/G	Instructional Safeguard	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	TES PRINK TES	N/A
5.7.6.1	Touch current from coaxial cables	TIME	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	WART HART	N/A
5.7.7	Summation of touch currents from external circuits	NAY TESTING	N/A
WAY TESTIN	a) Equipment with earthed external circuits Measured current (mA)	TIME WHITESTING	N/A
0	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):		N/A

6	ELECTRICALLY- CAUSED FIRE	AUAK TEP
6.2	Classification of power sources (PS) and potential ignition sources (PIS)	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits.	AUNTES ING
6.2.2.1	General	- JUAN TESTA	P P
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	9.85W after 3s for 5VDC 2A input	TESTP ^G
6.2.2.5	PS2:	16.83W after 5s for 9V DC 2A input	Р
6.2.2.6	PS3:	(See appended table 6.2.2)	N/A
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	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	STIME TESTING	XTESTP
6.4.1	Safeguard Method	Market Orie	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	PS2	HUAK TEPTING
6.4.3.1	General		Р
6.4.3.2	Supplementary Safeguards	NK TESTING	P
	Special conditions if conductors on printed boards are opened or peeled	No such case happened.	N/A
6.4.3.3	Single Fault Conditions:	(See appended table 6.4.3)	N/A
TIME	Special conditions for temperature limited by fuse	STING MICH.	N/A
6.4.4	Control of fire spread in PS1 circuits	HUAKTER	P
6.4.5	Control of fire spread in PS2 circuits		Р
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	HUARTE	N/A
6.4.7	Separation of combustible materials from a PIS		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	TESTIN INV. TESTIN	N/A
6.4.7.3	Separation by a fire barrier	0, 0	N/A
6.4.8	Fire enclosures and fire barriers	TSTING	Р
6.4.8.1	Fire enclosure and fire barrier material properties	RIGHT	s™ ^G P
6.4.8.2.1	Requirements for a fire barrier	O HUM	N/A
6.4.8.2.2	Requirements for a fire enclosure	W TESTING	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	THIS HOUSE	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	0,	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	TESTING MAKETING	N/A
	Needle Flame test	0,	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	HUAKTESTING	N/A
NG.	Flammability tests for the bottom of a fire enclosure	mag Maker	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	THIS HILLY TES!	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used and no distance between PIS and enclosure	N/A
6.5	Internal and external wiring		N/A
6.5.1	Requirements	TESTINE WAY TESTINE	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	THE WHART	N/A
- N	External port limited to PS2 or complies with Clause Q.1	THIS HULLY TES!	P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N/A
7.3	Ozone exposure	O HUA	N/A
7.4	Use of personal safeguards (PPE)	TING	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
.100	Personal safeguards and instructions:	.6	_
7.5	Use of instructional safeguards and instructions	TESTINE	N/A
0	Instructional safeguard (ISO 7010)	0,,	_
7.6	Batteries	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		
8.1	General	See the following details.	Р
8.2 HUARTESTING	Mechanical energy source classifications	Sharp edges and corners, classified as MS1 Equipment maximum mass < 7 kg, classified as MS1	AKTEST PS
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	P HUAN TESTING
8.4.1	Safeguards	a)G	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	TESTINE	N/A
8.5.2	Instructional Safeguard:	TIME HUAR	_
8.5.4	Special categories of equipment comprising moving parts	O HUANTEE OH	N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	TESTING LAK TESTING	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	TSTING	N/A
The .	Instructional Safeguard:	HUAK.	_
8.5.4.2.3	Disconnection from the supply	O HULL	N/A
8.5.4.2.4	Probe type and force (N)	LAKTESTINE	N/A
8.5.5	High Pressure Lamps	STING OF HE	N/A
8.5.5.1	Energy Source Classification	HIAK I	N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability	.0.	N/A
8.6.1	Product classification	TESTIVE LANTESTIVE	N/A
A reco	Instructional Safeguard:	0,	_

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Clause	Requirement + Test	Result - Remark	Verdict
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	ESTINA	N/A
9,00	Applied Force	0,,,	
8.6.2.3	Downward Force Test	ESTING.	N/A
8.6.3	Relocation stability test	HUANT	N/A
	Unit configuration during 10° tilt:	O HUM	_
8.6.4	Glass slide test	AKTESTING	N/A
8.6.5	Horizontal force test (Applied Force)	TING WITH	N/A
HUAKTE	Position of feet or movable parts:	HIANTE	_
8.7	Equipment mounted to wall or ceiling	9	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	ESTING TESTING	N/A
8.7.2	Direction and applied force:	Why.	N/A
8.8	Handles strength	-m ^C	N/A
8.8.1	Classification	HUAKTESIA	N/A
8.8.2	Applied Force	HIM	N/A
8.9	Wheels or casters attachment requirements	TETING	N/A
8.9.1	Classification	TING HUAN	N/A
8.9.2	Applied force:	MAKTESTI.	_
8.10	Carts, stands and similar carriers	0	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions	ESTING TESTING	N/A
HUAK.	Instructional Safeguard:	HUAR.	
8.10.3	Cart, stand or carrier loading test and compliance	ang.	N/A
KTESI	Applied force	HUAKTESI	
8.10.4	Cart, stand or carrier impact test	HIMET	N/A
8.10.5	Mechanical stability	TESTING	N/A
	Applied horizontal force (N)	TING HUAN	_
8.10.6	Thermoplastic temperature stability (°C)	"IAN TEST"	N/A
8.11	Mounting means for rack mounted equipment	(a)	N/A
8.11.1	General		N/A
8.11.2	Product Classification	ESTING TESTING	N/A
8.11.3	Mechanical strength test, variable N	HUAR	N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A

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N. TESTI	E HANTESTINE W	IEC 62368-1	W. T.S. TING	"LAK TESTIME
Clause	Requirement + Test	t 0"	Result - Remark	Verdict
8.12	Telescoping or rod antennas	(5	See Annex T)	N/A
MAKTESTIN	Button/Ball diameter (mm)	THE TES	THE	_

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	TESTING AKTESTING	N/A
10.2.1	General classification	O HOW	N/A
10.3	Protection against laser radiation	TING	N/A
AKTES	Laser radiation that exists equipment:	HUAKTE	_
	Normal, abnormal, single-fault:	(See attached laser test report)	N/A
N _G	Instructional safeguard:	TESTING	_
TI.	Tool:	TING WHOME	_
10.4	Protection against visible, infrared, and UV radiation	WINKLE H	N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	TING	N/A
10.4.1.b)	RS3 accessible to a skilled person:	HUART	N/A
ESTING	Personal safeguard (PPE) instructional safeguard:	TSTING	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	RIAN	s ^M 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:	NG WHANTESTINE	N/A
10.4.1.f)	UV attenuation:	STO WAY TESTING	N/A
10.4.1.g)	Materials resistant to degradation UV:	0	N/A
10.4.1.h)	Enclosure containment of optical radiation:		N/A
10.4.1.i)	Exempt Group under normal operating conditions:	TESTING	N/A
10.4.2	Instructional safeguard:	0	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
100	Normal, abnormal, single fault conditions	0, 0	N/A
ESTING	Equipment safeguards:	STING	N/A
	Instructional safeguard for skilled person:	HINE	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	STING MILLS	_
	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A
LAKTESTI	Maximum radiation (pA/kg)	IAK TESTI	N/A
10.6	Protection against acoustic energy sources	0, 0	N/A
10.6.1	General		N/A
10.6.2	Classification	- STING	N/A
HUAKTE	Acoustic output, dB(A)	HUAKTE	N/A
	Output voltage, unweighted r.m.s:		N/A
10.6.4	Protection of persons	LAY TESTING	N/A
	Instructional safeguards	- HUNKER	N/A
3	Equipment safeguard prevent ordinary person to RS2	. OK TESTING	_
MAKTESTIN	Means to actively inform user of increase sound pressure:	THE WHEN TENTO	_
9	Equipment safeguard prevent ordinary person to RS2	0,	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	ESTING LESTING	N/A
10.6.5.1	Corded passive listening devices with analog input	O Mills	N/A
TESTINE	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output:	HUAK TESTING	_
10.6.5.2	Corded listening devices with digital input	(HOVE	N/A
3	Maximum dB(A)	W TESTING	_
10.6.5.3	Cordless listening device	STING OFFICE	N/A
HUAKTE	Maximum dB(A):	THE PARTY OF THE P	_

	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	P
B.2	Normal Operating Conditions	HUAR P

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Clause	Requirement + Test	Result - Remark	Verdict
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
HUAN	Audio Amplifiers and equipment with audio amplifiers	● HURAN	N/A
B.2.3	Supply voltage and tolerances	AKTESTING.	N/A
B.2.5	Input test:	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	Simulated abnormal operating conditions	
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	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)	HUAKTEP
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	HAKTESTIN	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	Р
B.4	Simulated single fault conditions	ING HUAK I	P
B.4.2	Temperature controlling device open or short-circuited:	(See appended table B.4)	N/A
B.4.3	Motor tests	No motor within the EUT	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	O HONE	N/A
B.4.4.1	Short circuit of clearances for functional insulation	TING	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	- HANTE	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	LAYTESTING	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	STING NEW TESTING	AKTESTP ³
B.4.6	Short circuit or disconnect of passive components		Р
B.4.7	Continuous operation of components		N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	TESTING ANTESTING	N/A
B.4.9	Battery charging under single fault conditions:	0, 0	N/A

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AKTESTIN	IEC 62368-1	ESTING ON TESTING	JAK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	TESTI WAKTESTIN	N/A
C.1.2	Requirements	alle and a second	N/A
C.1.3	Test method	G HUAYTES!	N/A
C.2	UV light conditioning test	HUAK	N/A
C.2.1	Test apparatus	STING	N/A
C.2.2	Mounting of test samples	THE WHAK	N/A
C.2.3	Carbon-arc light-exposure apparatus	LAN TESTINA	N/A
C.2.4	Xenon-arc light exposure apparatus	0,	N/A
D	TEST GENERATORS	1	N/A
D.1	Impulse test generators	TING	N/A
D.2	Antenna interface test generator	HUAKTE	N/A
D.3	Electronic pulse generator	9	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	O Pro	N/A
JG	Audio signal voltage (V)	ang Diam	_
<u> </u>	Rated load impedance (Ω):	- WAKTESTA	
E.2	Audio amplifier abnormal operating conditions	TESTING TESTING	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
HUAK 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	HUAKTE	STING P
F.2.1	Letter symbols according to IEC60027-1	HUAN	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	G HUAKTESTING	Р
F.3	Equipment markings	ESTING	NETESTP 0
F.3.1	Equipment marking locations	On the product	Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification	See marking	_
F.3.2.2	Model identification	Marked	_
F.3.3	Equipment rating markings	95	Р

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.1	Equipment with direct connection to mains	Considered	P
F.3.3.2	Equipment without direct connection to mains	TESTING THE THE STREET	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	HUMAN TO	
F.3.3.6	Rated current or rated power:	See marking	_
F.3.3.7	Equipment with multiple supply connections	W.LESTING.	N/A
F.3.4	Voltage setting device	TIME WITH	N/A
F.3.5	Terminals and operating devices	HILIAN DE	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking:	ESTING TESTING	N/A
F.3.5.3	Replacement fuse identification and rating markings	O HUM	N/A
F.3.5.4	Replacement battery identification marking:	W TESTING	N/A
F.3.5.5	Terminal marking location	O POLICE	N/A
F.3.6	Equipment markings related to equipment classification	"TESTING	N/A
F.3.6.1	Class I Equipment	TING WIND	N/A
F.3.6.1.1	Protective earthing conductor terminal	HUNGTES.	N/A
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)	ESTING	N/A
F.3.6.2.1	Class II equipment with or without functional earth	O HURA	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	WESTING	N/A
F.3.7	Equipment IP rating marking:	IPX0	_
F.3.8	External power supply output marking	Marked on the label	Р
F.3.9	Durability, legibility and permanence of marking	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	P AK TESTING
F.3.10	Test for permanence of markings	Complied	Р
=.4	Instructions		Р
HUAKTESTING	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.	HUAK TESTING

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Clause	Requirement + Test	Result - Remark	Verdict
HUAKTESTING	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	P HUAK TESTING
3	c) Equipment intended to be fastened in place	See above.	Р
TESTING	d) Equipment intended for use only in restricted access area	The EUT is not such type equipment	N/A
3	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
V TESTIN	f) Protective earthing employed as safeguard	Class III equipment	N/A
O HOM	g) Protective earthing conductor current exceeding ES 2 limits	Class III equipment	N/A
	h) Symbols used on equipment	Complied	Р
HUAKTESTING	i) Permanently connected equipment not provided with all-pole mains switch	The EUT is not a permanently connected equipment	N/A
) TESTING	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
G	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		N/A
G.1.1	General requirements	No such switch as disconnect devices provided within the equipment.	N/A
G.1.2	Ratings, endurance, spacing, maximum load	0, 0	N/A
G.2	Relays	TSTNG	N/A
G.2.1	General requirements	No such relay provided within the equipment.	N/A
G.2.2	Overload test	TSTING	N/A
G.2.3	Relay controlling connectors supply power	ING MANNE	N/A
G.2.4	Mains relay, modified as stated in G.2	"IAKTESTITE"	N/A
G.3	Protection Devices	0,,,	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)	TES!	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	ESTING ESTING	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	O MINE	N/A
G.3.2	Thermal links	G VTESTING	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	O NO.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	- C	N/A
	Aging hours (H):	NAW TEST	
TESTIN	Single Fault Condition:	STIME TESTING	_
MI HUAN	Test Voltage (V) and Insulation Resistance (Ω). :	Mark O H	_
G.3.3	PTC Thermistors	No PTC thermistor provided within the equipment.	N/A
G.3.4	Overcurrent protection devices	ESTING	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	JAK TESTING	N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors	WC W	N/A
G.4.1	Spacings	THE PROPERTY.	N/A
G.4.2	Mains connector configuration	STILL OF THE STIME	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	0,111	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components	(See Annex J)	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Insulation tube used as physical separation	N/A
G.5.1.2 b)	Construction subject to routine testing	"IAK TESTI"	N/A
G.5.2	Endurance test on wound components	- MAKT	N/A
G.5.2.1	General test requirements	TING	N/A
G.5.2.2	Heat run test	NG HUAKTES	N/A
OKTESTIN	Time (s):	STATE OF THE STATE	_
O HOL	Temperature (°C):	0 kg. 0 kg	_
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers	TING TING	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	O HUAKTES.	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Position:		_
LAKTESTING	Method of protection:	ESTING LAKTESTING	_
G.5.3.2	Insulation	(a) 100 (b)	N/A
-CSTING	Protection from displacement of windings:	ESTING	_
G.5.3.3	Overload test:	HUNITE TE	N/A
G.5.3.3.1	Test conditions	Phone.	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	AKTESTING.	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	TIME WHITE	N/A
G.5.4	Motors	HUAKTES	N/A
G.5.4.1	General requirements		N/A
	Position:		_
G.5.4.2	Test conditions	ESTING . AKTESTING	N/A
G.5.4.3	Running overload test	(i) House (ii)	N/A
G.5.4.4	Locked-rotor overload test	STING	N/A
Car	Test duration (days)	HUANTE	_
G.5.4.5	Running overload test for d.c. motors in secondary circuits	CLING WHITE	N/A
G.5.4.5.2	Tested in the unit	ING MILAKTE	N/A
JAK TESTIN	Electric strength test (V)	, IAK TESTILO	_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h):		N/A
-o1G	Electric strength test (V)	Ole. Ole.	_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	ES HUAKTES	N/A
G.5.4.6.2	Tested in the unit	TING	N/A
TES	Maximum Temperature	HIANTES	N/A
	Electric strength test (V)	HUAR	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	HUANTESTING	N/A
W. TESTIN	Electric strength test (V)	W. LESING	N/A
G.5.4.7	Motors with capacitors	(1) HILL (1) (1)	N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors	THE THE	N/A
HUAKTES	Operating voltage	ED HUAK TES	
G.6	Wire Insulation	9	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	ESTINGS . ANTESTINGS	N/A
G.7	Mains supply cords	0,41	N/A
G.7.1	General requirements	STING	N/A
	Type:	HUAKTE	_
	Rated current (A):	O HINE	_
e	Cross-sectional area (mm²), (AWG):	VIESTING.	
G.7.2	Compliance and test method	TIME OFFICE TIME	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	O HIGH LEGY WITH	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements	-STING	N/A
HUAK	Strain relief test force (N)	HARRE	_
G.7.3.2.2	Strain relief mechanism failure	26	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	UAKTESTINA	_
G.7.3.2.4	Strain relief comprised of polymeric material	O HUNK'I	N/A
G.7.4	Cord Entry:	(See appended table 5.4.11.1)	N/A
G.7.5	Non-detachable cord bend protection	ING MUAK TE	N/A
G.7.5.1	Requirements	JAK TESTING	N/A
G.7.5.2	Mass (g)	0 0	_
	Diameter (m)		
TSTING	Temperature (°C):	STING	_
G.7.6	Supply wiring space	HURK	N/A
G.7.6.2	Stranded wire	J.G.	N/A
G.7.6.2.1	Test with 8 mm strand	UAKTESTA	N/A
G.8	Varistors	WHINK!	N/A
G.8.1	General requirements	CATING (III)	N/A
G.8.2	Safeguard against shock	NG WHAK'TE	N/A
G.8.3	Safeguard against fire	AK TESTING	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	STING STING	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	HUANTE	N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.9.1 c)	Supply source does not exceed 250 VA:		_
G.9.1 d)	IC limiter output current (max. 5A)	TESTA TIANTESTA	_
G.9.1 e)	Manufacturers' defined drift:	0,	_
G.9.2	Test Program 1	TESTING.	N/A
G.9.3	Test Program 2	HUARA	N/A
G.9.4	Test Program 3	O HUNN	N/A
G.10	Resistors	NYTESTIN	N/A
G.10.1	General requirements	TIME WHITE	N/A
G.10.2	Resistor test	HILAN TO SH	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	W6 W6	N/A
G.10.3.1	General requirements	TESS.	N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test	TESTING	N/A
G.11	Capacitor and RC units	MAN SALA	N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units	LAN TESTAN	N/A
G.11.3	Rules for selecting capacitors	STING TESTING	N/A
G.12	Optocouplers	HILAK . OH	N/A
TING	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	TING TING	N/A
HUAKTES	Type test voltage Vini:	TES HUANTES	_
,	Routine test voltage, Vini,b:		_
G.13	Printed boards	3 VTESTING	N/A
G.13.1	General requirements	O NO.	N/A
G.13.2	Uncoated printed boards	200	N/A
G.13.3	Coated printed boards	WAKTEST	N/A
G.13.4	Insulation between conductors on the same inner surface	TIME WHATESTING	N/A
	Compliance with cemented joint requirements (Specify construction)		_
G.13.5	Insulation between conductors on different surfaces	TESTINGANTESTING	N/A
	Distance through insulation	(See appended table 5.4.4.5)	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Number of insulation layers (pcs):		
G.13.6	Tests on coated printed boards	JAK TESTING	N/A
G.13.6.1	Sample preparation and preliminary inspection	0,,,,,	N/A
G.13.6.2a)	Thermal conditioning	-STING	N/A
G.13.6.2b)	Electric strength test	HUANTE	N/A
G.13.6.2c)	Abrasion resistance test	Mark.	N/A
G.14	Coating on components terminals	V TESTING	N/A
G.14.1	Requirements (See	e G.13)	N/A
G.15	Liquid filled components	HUAKTEST	N/A
G.15.1	General requirements	9	N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods	G V TESTING	N/A
G.15.3.1	Hydrostatic pressure test	O HONE	N/A
G.15.3.2	Creep resistance test	TWG	N/A
G.15.3.3	Tubing and fittings compatibility test	HUAKTES	_≤ √ [©] N/A
G.15.3.4	Vibration test	HUAK	N/A
G.15.3.5	Thermal cycling test	TESTING	N/A
G.15.3.6	Force test	HIAR	N/A
G.15.4	Compliance	- WAKTESTING H	N/A
G.16	IC including capacitor discharge function (ICX)	0, 0	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	G THE	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage	O HUANTES	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	WANTESTING	N/A
C2)	Test voltage:		<u> </u>
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	WAY TESTING	N/A
D2)	Capacitance	- WAY TEST	
D3)	Resistance:		_
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1 TESTING	General	G TESTING	N/A
H.2	Method A	Mulan .	N/A
H.3	Method B	-Ca	N/A

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W TESTIN	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)	W TESTINGS	
H.3.1.2	Voltage (V):	0,,,	_
H.3.1.3	Cadence; time (s) and voltage (V):	STING	_
H.3.1.4	Single fault current (mA)::	HUAN'S L	_
H.3.2	Tripping device and monitoring voltage:	O HUMAN	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	THE MAXIESTING	N/A
H.3.2.2	Tripping device	WAY TEST	N/A
H.3.2.3	Monitoring voltage (V)		_
J	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	N/A
TESTING	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

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	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
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)	_
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

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TESTIN	IEC 62368-1	AKTESTING (
Clause	Requirement + Test Result - Remark	Verdict
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
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	_
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:	_
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS	N/A
P.1	General requirements	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		_
	Tr (°C)		_
	Ta (°C):		
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing	(See Annex T)	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1 a)	Inherently limited output		N/A
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		_

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	IEC 62368-1	
Clause	Requirement + Test	Result - Remark Verdi
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
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	_

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The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Wall thickness (mm).....



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Clause	Requirement + Test	Result - Remark	Verdict
	Conditioning (test condition), (°C)		_
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
Т	MECHANICAL STRENGTH TESTS		N/A
T.1	General requirements		N/A
T.2	Steady force test, 10 N	(See appended table T.2)	N/A
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 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 (FI	NGERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment		N/A
V.2	Accessible part criterion		N/A

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OKTESTI	IG HAKTESTING MALE	IEC 62368-1	STING PHO	AK TESTING	IAK TESTING
Clause	Requirement + Test	O HO.	Result - Remark		Verdict

4.1.2	TABLE: List of criti	cal components	TING	P	
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
РСВ	Fai Wong Electronic Pcb Co.	FW-4	V-0, 130°C, min. 1.0mm	UL 796	UL E171766 and tested with appliance
Plastic enclosure	LG Chemical Ltd.	AF312C	V-0, 70°C, min. thickness: 2.0mm	UL94	UL E67171 and tested with appliance

Supplementary information:

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



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AK TESTING	WAY TESTING ON THE OWN	IEC 62368-1	STIME WATESTING	MAK TESTING
Clause	Requirement + Test	0,	Result - Remark	Verdict

4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batteries	s mechanical tests	N/A
(The follow	ving mechanica	al tests are conducted in the seque	ence noted.)	NSSS
4.8.4.2	TABLE: St	ress Relief test	TAK TESTIN	_
	Part	Material	Oven Temperature (°C)	Comments
NG.	9	THE W	OWN.	j)
4.8.4.3	TABLE: Ba	attery replacement test	HARTES	_
Battery pa	art no		WAY TESTING	_
Battery In	stallation/witho	drawal	Battery Installation/Removal Cycle	Comments
			1	
TING			2	TING
HUAKTES			Munkers 3 Hunkers	HUAKTES
3)			4	9
K TESTING			5 KTESTINE	
20			(6) NO	MAKTESTING
JG			8	
			9	
TEST			NY TESTING 10 TESTING	AKTESTING (III
4.8.4.4	TABLE: Dro	op test	D HUND	_
Impact Ar	ea	Drop Distance	Drop No.	Observations
TESTING		ESTING	TESTING 1 TESTING	TESTING
HUAR	MINAK.	O Hilling.	2 MIN.	O HUAR.
ESTING		ESTING	3	
4.8.4.5	TABLE: Im	pact	W TESTING HUANTE	_
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
		NY TESTIN	, ar testing	
-4	ING TES	THE MANY	TISTING WITH	TESTING (
HUAKTES	MI HUAN-1	HUANTE	HUM	MINN,
4.8.4.6	TABLE: Cr	rush test	-	_
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)
HUAL	HUAT	(MAIA)	HIAM.	HUAN
TNG		anG.	ang.	

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report non-ring cooperation of	rago rooror		
AK TESTING WAK TESTING	IEC 62368-1	WANTESTING W	NY TESTING
t - Remark Verdict	rest est	Requirement + Test	Clause
N/A	cell batteries mechanical test	LE: Lithium coin/button cell	4.8.4, TAB 4.8.5
	d in the sequence noted.)	chanical tests are conducted in	(The following me
-1G	IG	formation:	Supplementary inf
	in the sequence noted.)		

4.8.5	TABLE: Lithiu	m coin/button cell batteries	mechanical test result	N/	Ά
Tes	t position	Surface tested	Force (N)	Duration for applied	
~29	TEST NG	O HO	TESTING OF HE	TESTING	G 🔞
Suppleme	entary information:				

5.2	Table: C	Classification of	electrical energy	sources		V TESTING		N TEPNG
5.2.2.2	- Steady State	e Voltage and Cu	rrent conditions					
	O. marah.	Location (e.g.			Parameters			
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpl	k) (Ap	l ok or Arms)	Hz	ES Class
er e	9V max.	Input to	Normal	9V	TES	TING		
	,nJG	accessible	Abnormal	9V	M HUAR		- G	ES1
MUAK.	ESTINA	parts	Single fault – SC/OC	9V		WAY TEST		TES = 0.
5.2.2.3	- Capacitance	Limits		•				
	Supply	Location (e.g.			Parameters			:
No.	Voltage	circuit designation)	Test conditions	Capacitance, nF		Upk (V)		ES Class
G			Normal	-				
AK TESTING	25	W.C	Abnormal	STING	W H	JAK TESTIL	15	ING
NG	MAKTE.		Single fault – SC/OC	No Pale		-m ^G	HUAK	
5.2.2.4	- Single Pulse	S						
	Supply	Location (e.g.			Param	neters	50.01	
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk	(V) I	pk (mA)	ES Class
			Normal					
25	NG	JAKTESTING	Abnormal	- TESTING		STING.		ESTING
HUAKTE	0,4	JAKTA	Single fault – SC/OC	- HILAK		MAK		AKTE

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AK TESTING	NAK TESTING W	IEC 62368-1	A LEELING		AK TESTING (III
Clause	Requirement + Test	0,	Result - Remark	9	Verdict

5.2.2.5	5 - Repetitive F	Pulses					
NI	Supply	Location (e.g.	T4		F0 01		
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
K TESTIN			Normal		- AKTESTI		- JG
Ustr	"IAKT	STILL	Abnormal	"IAK TESTING	- None	- UAKTE	Time
TING	(a) House	-46	Single fault – SC/OC	12	- WIESTING	0"	

Test Conditions:

Normal -

Abnormal -

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature	measure	ment	ts	HUAKT	ES		0	HUAKTES	(a) H	DKTES P
ESTING	Supply voltage (V)	-ESTONG	:	9VDC				5	SVDC		_
135	Ambient T _{min} (°C)	76.70	:	23	.5	25.0	0 (23.2	25.0	N. TEST	<u> </u>
ic O _H	Ambient T _{max} (°C)	.6		23	.5	25.0)	23.2	25.0	MON-	
Maximum meas	sured temperature T of p	art/at:						T (°C	(1)		Allowe d T _{max} (°C)
PCB	9			35	.7	37.2	2	34.0	35.8	_	130
Plastic enclosur	е			27	.4	28.9	9	26.7	28.5		77
Internal wire	V TESTING	X TESTING		31	.8	33.3	3	30.9	32.7		80
Supplementary	information:	HOM		0	HOPE			0	HOM	(a) H	
Temperature T	of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂	(°C)	R ₂ ((Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class
M HI	Jak I		680.	HUAKTE			- 6	9		HUAKTE	
Supplementary	information: N/A	NG.						TESTIN	3		

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			Page	e 42 of 64		Report	No.: HK2005	201011-9
			IEC	62368-1				
Clause	0,	Requiremer	nt + Test	.	Re	Result - Remark		
5.4.1.10.2	TABLE: Vicat s	oftening te	mperature of	thermopla	stics		.6	N/A
Penetration	(mm)			:	ESTITUS	LAKTES	Mas	
Object/ Par	t No./Material				facturer/t emark	T	softening (°C)
TES.	-STING	THU THU	JK TES.	TING		HUAK TES.		CTING
upplement	ary information:	9		HUAKTES	-		HUAKTE	2
3		-ST	NG W			STING		
5.4.1.10.3	TABLE: Ball pre	essure test	of thermopla	astics	ING HUAN		,Ca	N/A
Allowed im	pression diameter	(mm)		HUAKTE	711. (630)		TESTING	-6///
Dbject/Part	No./Material	Manufactu	ırer/trademark	Tes	t temperatur	e (°C)	mpression dia	meter (m
						- (-)	·	
Supplemen	tary information:		STING		STING		TING	STING
эарріотпоті	tary information.		HURKTEN	HURKT		HUNKTE		HUPKTED
5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minim	um Cleara	nces/Creepag	ge distanc	e 	HUAKTESTING	.v.T	N/A
	(cl) and creepage r) at/of/between:	U _I (V		Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)
200	nG TING	M HUMP.	an)G		THE HUAK		-nlG	TING
			WAKTESTI	HUAKTE		- JUAY	T.SIII.	
Note 1: Onl Note 2: See	tary information: y for frequency ab e table 5.4.2.4 if the ovide Material Gro	nis is based		rength test	ESTING	O HARTE	TIME O	PLAK TESTING
5.4.2.3	TABLE: Minim	um Cleara	nces distanc	es using re	equired with	nstand vol	tage	N/A
LES.	Overvoltage C	ategory (O	V):	ESTING		HUAKTES	~	STING
	Pollution Degr	ee:		HUAR	6	9	HUAK	
	· ·	n:	Required wit	thstand	Required	l cl	Measured	cl (mm)
Clearance	distanced betwee	11.	voltag		(mm)			
Clearance	distanced betwee	W			(mm)	. a.v	TESTING	AK TESTIL

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Test voltage applied between:

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Test voltage (kV)

peak/ r.m.s. / d.c.

Breakdown

Yes / No

Required cl

(mm)



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			N TES	EC 62368-1					
Clause	0	Requirem	ent + Test	(a)		Resu	ılt - Remark	0	Verdict
-6			-6		.6		.6		-6
JAK TESTING	LAKT	ESTITUTE	MAKTESTING	144	TESTIN		TAKTESTIN		MAKTESTIN
Supplemen	tary information	on:	0	0,			0	€	D. Harry
STING			STING				STING		
5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	stance throu	gh insulation	n measurem	ents	6 H	UNG.	MINAY	N/A
Distance the insulation of			voltage √)	Frequency (kHz)	Mate	erial	Required I (mm)	OTI	DTI (mm)
HUAKIL	HUAN		MINNY IN	HUAR			HUAKT	0	HIVA
Supplemen	tary information	on:			l .			I	
TESTING	. 1	STING	TESTING		TESTING		TESTING		TESTING
5.4.9	TABLE: Ele	ctric strengt	h tests	O HUAN		(MUNK.	-	N/A
Test voltage	e applied betv	veen:		Voltage sh (AC, DC		Tes	st voltage (V)	E	Breakdown Yes / No
	- WAK TEST	0,	10	- WAKTESIA		0"		- WAY	TEST
JG			TING	0			-mG		
Supplemen	tary information	on:	3***			HUAKTES			.0. /
Y TESTIN	G	Lun,	V TEST	NO LAKTE	STILL OF		X TESTI	/IG	LAKTESTING
5.5.2.2	TABLE: Sto	ored discharg	ge on capaci	itors			HUAN	0	N/A
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or of	(a		d Voltage seconds)	ES CI	assification
HUM	O HUM		D HUM	O HUM			HUM	- 6	HOM
TING			TING				TING		
KTES	STING		WAK TES.	STING		- H	UAK TES		ESTING
X-capacitor bleedin lCX: Notes: A. Test Loc		r testing are: ng:	HIAK TEST	MAN TE	STING (HUAKTES	THIS HUAR TEST	ME HILAN	HUAKTESTING
B. Operation	ng condition a	to Phase; Phabbreviations:					e fault condit	tion	A HUAN TESTING

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OK TESTING	LAX TESTINE W	IEC 62368-1	N TESTING	HAK TESTING
Clause	Requirement + Test		Result - Remark	Verdict

5.6.6.2	TABLE: Resistance	e of protective condu	ctors and terminate	ations	N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
KTESI	TING	MAKTES	TING	THURK TEST	STING
	HUAKTE		HUAKTE		HUAKTES
ß	9	STING	9	STING	
Suppleme	entary information:	HUAKTE		HUAKTE	

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive par	t			N/A
Supply vo	Itage	a)G	a)G		_
Location		IEC 60990 or Fi	specified in 6.1 of ault Condition No ause 6.2.2.1 , except for 6.2.2.7		ch current (mA)
4.	TESTING	TESTING	1 HUAK	TEST	ING
			2*	AUAIT	
			3511111		
		TESTING HOL	4		ESTING (
		HUAKI	5 HUAK TEE	HUA	K
			6		
			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.

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AK TESTING	WAKESTING W	IEC 62368-1	INC O	HAY TESTING (III)
Clause	Requirement + Test	0,,,	Result - Remark	Verdict

6.2.2	Та	ble: Electrical	N/A				
Source		Description	Measuren	nent	Max Power after 3 s	Max Power after 5 s*)	PS Classification
IK TES !!		TING	Power (W)	:	TING	WAY TEST	TING
		JAK TES.	V _A (V)	:	HUAKTE	(a)	HUAK TES
			I _A (A)	:		STING-	9

Supplementary Information:

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

6.2.3.1	Table: Determin	ation of Potential Ign	ition Sources (Arc	ing PIS)	N/A
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No
JK TESTING	JING.	MAKTESTIL	JuG	HAKTESTIN	TING
	WAKTES.		WAKTES	(i)	HUAKTES

Supplementary information:

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

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AKTESTING	MAKTESTINE W	IEC 62368-1	THE WESTING	3	JAK TESTING
Clause	Requirement + Test	0,	Result - Remark	.	Verdict

6.2.3.2	Table: Det	ermination of Potenti	al Ignition Sour	ces (Resistive F	PIS)	N/A
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
uG.		200			ic O	
-		HAKTESTIL		"JAK TEST		

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	ESTING		N/A
Descriptio	n	Values	Energy Source Classification	
Lamp type	ak TESTI	HUAKTES	_	
Manufactu	ırer:	0	_	
Cat no	· · · · · · · · · · · · · · · · · · ·		_	
Pressure ((cold) (MPa)	STING	MS_	ESTING
Pressure ((operating) (MPa)	HUAKIL	MS_	HUAKIL
Operating	time (minutes)		_	
Explosion	method	MG JAY	_	
Max partic	cle length escaping enclosure (mm) .:	WAKTES!	MS_	51
Max partic	cle length beyond 1 m (mm):	(M)	MS_	
Overall res	sult	G HUAKTES		
Suppleme	entary information:	WANTESTIN .	HIAK TESTING	JAK TESTILLE

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X TESTING	LAKTESTING (C)	IEC 62368-1	A TESTING	LAKTESTING W
Clause	Requirement + Test		Result - Remark	Verdict

B.2.5	TABLE: Inpu	ut test	"IAK TESTING	MAKTEST	lla.	HAKTESTIN	, AKTP
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5 TING	1.97	2	9.85			TESTING	Max normal load
9	1.87	2 NUP	16.83	X TESTING	@\	UAK.	Max normal load

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured

B.3	TABLE: Abnorm	nal operating o	condition to	ests			HUAK	TES	H	N/A
Ambient tem	perature (°C)	<u> </u>		<u> </u>	:			6	9)	_
Power source for EUT: Manufacturer, model/type, output rating .:									_	
Component	No. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer		T-couple	Temp. (°C)	0	bservation

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.

alg all !											
B.4	TAB	LE: Fault co	ondition tests	AK TESTING	MAKT	ESTI		(0)	TESTING		AK TESTIP
Ambient tem	pera	ture (°C)		yo.	(D)	:	25	(I) HO.		O	_
Power sourc	e for	EUT: Manuf	acturer, mode	l/type, outp	ut rating	.:	See p	age 2			_
Component	No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		nt, (A)	T-couple	Temp (°C)	Ob	servation
U1		S-C	9VDC	10 mins		-				can't	appliance work, no ard, no en
Q1		S-C	9VDC	10 mins		-	-			can't	appliance work, no ard, no en
C1		S-C	9VDC	10 mins		-	_			can't	appliance work, no ard, no en

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NK TESTING	"IAK TESTING"	IEC 62368-1	THE ON TESTING	"IAK TESTING
Clause	Requirement +	Test	Result - Remark	Verdict
Supplement	ary information:			

Annex M	TABLE: Batte	eries	, oG				-mG		N/A
The tests of	Annex M are a	applicable of	only when app	ropriate b	attery data	is not ava	ilable		STING
Is it possible	e to install the b	battery in a	reverse polar	ity position	າ?	.		HUAKT	
	Non-re	echargeable	e batteries		F	Rechargeal	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	ed charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	
Max. curren during norm condition		W.	ESTIVE		ESTING		ESTING		ESTING
Max. current during fault condition	t Number of		HIAK	9 "	Jak .	(6)	MAK	0	HILAK
Test results:	HUAKI		,	HUAK				HUAK !	Verdict
- Chemical I	eaks		ESTING			TESTING	>		
- Explosion	of the battery	G HUAK		-1G	TING &	HUAK.		.G	TING M
- Emission c	of flame or exp	ulsion of m	olten metal	HUA	K TES		MAKTESTI	H .	AKTES
- Electric str	rength tests of	equipment	after completi	ion of tests	;	(9		
Supplement	tary information	n:	n/G		IG		-n/G		anuG

Annex M.4	Table: Add batteries	litional safe	guards for equ	ipment cor	ntaining second	ary lithium	N/A
Battery/Cell No.		Test conditions			Observation		
				U	I (A)	Temp (C)	C.CC. Valion
1		Normal		G	THE HUAK	a)G	TING (
MAKTESTI	HUAKTE	Single fault	:-SC	HUAKT		MAKTESTI	HUAKTES
(i)		Abnormal	(ii)			9	
Supplement	ary Informati	on:	<u>'</u>		•	-1	
STING		STING	STING		STING	STING	STING
identification T _{lo}		arging at Observat		tion	Charging at T _{highest} (°C)	Obs	servation

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			IEC	C 62368-1			
Clause	.	Requirer	ment + Test	0,	Result -	Remark	Verdict
Battery identificat		Charging at T _{lowest} (°C)	Observati		arging at Inighest (°C)	Obse	rvation
TESTING		J.G.	AK TESTING	-6	. 1	ESTING	-16
Supplement	tary Info	rmation:	Maria	- WAX TESTING	O HUM	"	AK TESTAND
3	0		TING	9	TING		
Annex Q.1	TABLE	E: Circuits inten	ded for interco	nnection with bu	uilding wirin	ig (LPS)	N/A
Note: Meas	ured UC	OC (V) with all loa	d circuits discon	inected:		HUAKTE	HUAR
Output Circuit	Output Components		U _{oc} (V)	I _{sc} (A)			(VA)
Onodit		100	ANO.	Meas.	Limit	Meas.	Limit
HUAK TESTI	60.	HUMK TEST II	HUAN TESTI	MAKTES "		SAKTESTA	MAKTESTII.
- C1	-		TESTING		.7	ESTING.	
- C; \	-	ormation: C=Open circuit	A HAR TESTING	HUNTESTING	₩W.	ES TIVE	JAN' TESTING
SC=Short o	circuit, O		est Me	HUN TESTING	HUAK TESTING	ES TIVE	N/A
SC=Short o	TABLE	C=Open circuit	Thickness (mm)	Force (N)	Test Dura		N/A oservation
SC=Short of 5.2, T.3, F.4, T.5	TABLE	C=Open circuit	Thickness				_nyG d
SC=Short of 5.2, T.3, F.4, T.5	TABLE	C=Open circuit	Thickness				_nyG d
Г.2, Т.3, Г.4, Т.5	TABLE tion	C=Open circuit E: Steady force to Material	Thickness				_nyG d
F.2, T.3, F.4, T.5 Part/Locar	TABLE tion	C=Open circuit E: Steady force to Material mation:	Thickness				oservation
F.2, T.3, F.4, T.5 Part/Locar	TABLE tion TABLE	C=Open circuit E: Steady force to Material mation: E: Impact tests	Thickness (mm)	(N)		IJAK TES ING	oservation N/A
T.2, T.3, T.4, T.5 Part/Loca	TABLE tion TABLE	C=Open circuit E: Steady force to Material mation:	Thickness				oservation N/A
SC=Short of T.2, T.3, T.4, T.5 Part/Local Supplement	TABLE tion TABLE	C=Open circuit E: Steady force to Material mation: E: Impact tests	Thickness (mm) Thickness	(N) Vertical		IJAK TES ING	oservation N/A

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	IEC 62368	ATESTING	
Clause	Requirement + Test	Result - Remark	Verdict

T.7 TA	BLE: Drop tests	-16		-16	N/A	
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation		
miG		TNG		TNG		
KTES	STING	HUAK TES	STING	HUAKTES	STING	
A V	UBK		HUAK T		HUAK	
Supplementary	information:	STING		STING		

T.8 TAB	LE: Stress relief	test	HUAKTES	- H	N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
WAK TESTING	LAK TESTING	MAK TESTING	MAKTESTIN	, ak	ESTIN
Supplementary in	formation:				

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AKTESTING	MAKTESTINE W	IEC 62368-1	THE WESTING	3	JAK TESTING
Clause	Requirement + Test	0,	Result - Remark	.	Verdict

- Appendix 1: For requirements of European group differences.

ATTACHN	MENT TO TEST REPORT IEC	62368-1	HUPAN
EUROPEAN GROUP	DIFFERENCES AND NATIONA	AL DIFFEREN	CES
(Audio/video, information and con	nmunication technology equipme	ent Part 1: Safe	ety requirements)
Differences according to	EN 62368-1:2014+A11:2017	HUAK	ESTING
Attachment Form No	EU_GD_IEC62368_1B_II	9	HUAKA
Attachment Originator:	Nemko AS		
Master Attachment	Date 2017-09-22		
Copyright © 2017 IEC System of Confo	rmity Assessment Schemes f	or Electrotec	hnical Equipment a
Components (IECEE)	V TESTING		V TESTING

	CENELEC C	COMMON MOD	DIFICATION	NS (EN)				
LAKTESTING		clauses, notes :2014 are prefix		ures and annexe	s which are a	dditional to thos	e in	JAK TESTING
CONTENTS	Add the follo	wing annexes:	les.	0	0	Account of the Control of the Contro	1	N/A
AKTESTING ME	Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZC (informative) A-deviations IEC and CENELEC code designations for flexible cords							
WAK TESTING	Delete all the to the following		es in the ref	erence documen	t (IEC 62368-	1:2014) accordi	ng	N/A
	0.2.1	Note	1	Note 3	4.1.15	Note	93	
	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	WAR
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		TING
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	AKTES	,,,,
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		TESTING (
HURY	For special r	national condition	ons, see Ar	nnex ZB.		HUAN	D HO	N/A
1		•		rical and electronic ve 2011/65/EU.	6	TING		N/A

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		Page 52 01 64	Report No I	IK2005201011-5R
NK TESTING	JAK TESTING (III)	IEC 62368-1	NY TESTING	"IAK TESTING
Clause	Requirement +	+ Test	Result - Remark	Verdict
4.Z1	Add the following new subcla	ause after 4.9:		N/A
	To protect against excessive earth faults in circuits connect protective devices shall be incoparts of the equipment or as prinstallation, subject to the follows:	ted to an a.c. mains , cluded either as integral parts of the building	WITESTING	WHAT TESTINGS
	a) except as detailed in b) and necessary to comply with the B.4 shall be included as parts	requirements of B.3.1 and	d min	HURKTE THE
	b) for components in series we equipment such as the supply r.f.i. filter and switch, short-cir protection may be provided be building installation;	y cord, appliance coupler, cuit and earth fault	AK TESTIL	OH WITESTING
	c) it is permitted for pluggabl permanently connected equ dedicated overcurrent and sh building installation, provided protection, e.g. fuses or circui specified in the installation ins	uipment, to rely on ort-circuit protection in the that the means of it breakers, is fully	WANTESTING	What TESTING
	If reliance is placed on protectinstallation, the installation insexcept that for pluggable equivalent building installation shall be reprotection in accordance with socket outlet.	structions shall so state, uipment type A the egarded as providing	O HUAK TESTING	HIAKTE TING
5.4.2.3.2.4	Add the following to the end		HUAN TESTING	N/A
	The requirement for interconr circuit is in addition given in I		(a)	
10.2.1	Add the following to c) and d) in For additional requirements, see 10.5		NC TESTING	N/A



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TESTING	W TESTING OF	IEC 62368-1	TESTING	IN TESTING
Clause	Requirement + Test	O INTAN	Result - Remark	Verdict
10.5.1	Add the following after the first para For RS 1 compliance is checked by	in Si	e ALLE THE	N/A
W. ESTING	under the following conditions: In addition to the normal operating of controls adjustable from the outside object such as a tool or a coin, and adjustments or presets which are no reliable manner, are adjusted so as radiation whilst maintaining an intelligent	by hand, by any those internal ot locked in a to give maximum igible picture for 1 h,	WHAKTESTING WHAKT	FORM
	at the end of which the measurement NOTE Z1 Soldered joints and paint lockings adequate locking. The dose-rate is determined by measurement monitor with an effective area of 10	are examples of	HULLY TES HULLY TESTING	JAY TESTING
HAKTESTING	cm from the outer surface of the app Moreover, the measurement shall be conditions causing an increase of the provided an intelligible picture is may the end of which the measurement if	paratus. e made under fault e high-voltage, intained for 1 h, at	E HAR TESTING	MAKTESTING
	For RS1, the dose-rate shall not excaccount of the background level. NOTE Z2 These values appear in Directive 9 1996.	-myG	MAK TESTING	ESTING
10.6.1	Add the following paragraph to the	end of the	TESTING SHE	N/A
	subclause: EN 71-1:2011, 4.20 and the related measurement distances apply.	tests methods and	MUNK I	JAYTESTING (
10.Z1	Add the following new subclause af	ter 10.6.5.	0,,,	N/A
	10.Z1 Non-ionizing radiation from in the range 0 to 300 GHz	radio frequencies		
	The amount of non-ionizing radiation European Council Recommendation July 1999 on the limitation of exposurablic to electromagnetic fields (0 H.	n 1999/519/EC of 12 ure of the general	WANTESTINE O	MAKTESTING
	For intentional radiators, ICNIRP gu taken into account for Limiting Expo Varying Electric, Magnetic, and Elec (up to 300 GHz). For hand-held and devices, attention is drawn to EN 50	idelines should be sure to Time- stromagnetic Fields body-mounted	WIESTING WHANT	EETING
G.7.1	Add the following note: NOTE Z1 The harmonized code designation IEC cord types are given in Annex ZD.	STING TESTING	O HUAN	N/A

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OKTESTING	WAY TESTING	OK TESIE	EC 62368-1	AK TESTING	MAKTESIII
Clause	Re	equirement + Test	(a)	Result - Remark	Verdict
Bibliography	Add the following	standards:			N/A
	Add the following	notes for the standa	rds indicated:		TESTING
	IEC 60130-9	NOTE Harmonize	d as EN 60130-9	HUAN	MUAN
	IEC 60269-2	NOTE Harmonize	d as HD 60269-2	2.	
	IEC 60309-1	NOTE Harmonize	d as EN 60309-1	L. KTESTING	.0
	IEC 60364	NOTE some parts	harmonized in F	HD 384/HD 60364 series.	K TESTING
	IEC 60601-2-4	NOTE Harmonized	d as EN 60601-2	-4.	HURI
	IEC 60664-5	NOTE Harmonized	l as EN 60664-5	TESTING	
	IEC 61032:1997	NOTE Harmonized	l as EN 61032:19	998 (not modified).	G @
	IEC 61508-1	NOTE Harmonized	l as EN 61508-1	TESTING	W.TESTING W
	IEC 61558-2-1	NOTE Harmonized	d as EN 61558-2	-1.	O HU
	IEC 61558-2-4	NOTE Harmonized	d as EN 61558-2	-4.	
	IEC 61558-2-6	NOTE Harmonized	d as EN 61558-2	-6.	
	IEC 61643-1	NOTE Harmonized	l as EN 61643-1	NG CTING	TING
	IEC 61643-21	NOTE Harmonized	l as EN 61643-2	1. HUAK TESS	MAKTES
	IEC 61643-311	NOTE Harmonized	l as EN 61643-3	11.	
	IEC 61643-321	NOTE Harmonized	l as EN 61643-3	21.	
	IEC 61643-331	NOTE Harmonized	l as EN 61643-3	31.	STING
ZB	ANNEX ZB, SPE	CIAL NATIONAL C	ONDITIONS (EN	N)	N/A
4.1.15	Denmark, Finlan	nd, Norway and Swe	den	TESTING	N/A
	To the end of the	subclause the following	ing is added:	3 MUAK	nig @
		e equipment type A		W TESTING	WALESTIN DE
		er equipment or a net onnection to reliable e		M HUAI	O HO
		rs are connected betw		<	
		cessible parts, have		g	
		nt shall be connected	to an earthed	ING TESTING	ESTING
	mains socket-out		atria a Mallina a	HUAKIL	HUAK
	follows:	in the applicable coul	ntries shall be as		
		paratets stikprop skal	tilsluttes en	ESTING	
		ord som giver forbind		HUAKTL	FETTING
	stikproppens jord			(a)	HUAKT
		on liitettävä suojakos	skettimilla	TING	33
	varustettuun pisto			- JUANTES!	
	25/11	aratet må tilkoples jor		3 O TO	TESTING (
MAKTE		araten skall anslutas	till jordat uttag"	MAKTER	HIVE.
4.7.3	United Kingdom				N/A
	To the end of the	subclause the follow	ing is added:		
		performed using a se		Din.	-mG
		S 1363, and the plug elevant clauses of BS		MAKTESTING	JAKTESTI
	assessed to tile I	CICVALIL CIAUSES OF DO	7 1000. AISO SEE	AND HO.	ALL ALL AND A SECOND AND A SECOND AS A SEC

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V TESTING		IEC 62368-1				
Clause	Requirement +	Test	Result -	Remark	9,	Verdict
5.2.2.2	Denmark After the 2nd paragraph add the Awarning (marking safeguard is required if the touch currer 3,5 mA a.c. or 10 mA d.c.	d) for high touch currer	nt O	UAK TESTING	0 ,11	N/A
5.4.11.1 and	Finland and Sweden	TESTING	HUAKT	37	TEST	N/A
Annex G	To the end of the subclause the				HUAR	
	For separation of the telecomre earth the following is applicable		LAKTESTING			
"LAK TESTING	If this insulation is solid, include part of a component, it shall at		ic hr.		HU MY	
O HU	• two layers of thin sheet mate pass the electric strength test					
AKTESTING	• one layer having a distance to least 0,4 mm, which shall pass below.		st			
W. ES. ING	If this insulation forms part of a component (e.g. an optocoupl through insulation requiremen consisting of an insulating con the casing, so that clearances do not exist, if the component	er), there is no distance t for the insulation appound completely filling and creepage distances passes the electric	HIAKT		O NO	
	strength test in accordance wi below and in addition • passes the tests and inspect		HUANTESTING			
HUANTES.	an electric strength test of 1,5 electric strength test of 5.4.9 s 1,5 kV), and				O HUM	
	• is subject to routine testing for manufacturing, using a test vo		g			
	It is permitted to bridge this inscomplying with EN 60384-14:2		O H		(a) Yu	
AN TESTING	A capacitor classified Y3 acco 14:2005, may bridge this insul conditions:		g maxi		ST	
he (• the insulation requirements a capacitor classified Y3 as defi which in addition to the Y3 tes impulse test of 2,5 kV defined	ned by EN 60384-14, ting, is tested with an	IG HUAK TESTING		HUAKTE	
	the additional testing shall be specimens as described in EN		st		HUM	
	the impulse test of 2,5 kV is to endurance test in EN 60384-1 tests as described in EN 6038	4, in the sequence of	е			

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	Fage 50 01 04	Report No., HK2005	201011 011
AKTESTIN	IEC 62368-1	OK 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	HUARTESTING	N/A
	required to be rated for the applicable line-to-line voltage (230 V).	CTIMG CO	
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added:	HUAK IT	N/A
als "	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.	NUANTEETING	STING O
5.6.1	Denmark A Mark Tools of the Company	HURKTES	N/A
HAN TESTING	Add to the end of the subclause 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.	HUAN TESTING	JAK TESTING
5.6.4.2.1	Ireland and United Kingdom	HIVE	N/A
NG WAY TESTING	After the indent for pluggable equipment type A , the following is added: — the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	WANTESTING HANTESTING	KTESTING (
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.	HUAY TESTING	N/A
5.7.5 5.7.5	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.	HUAN TESTING NUANT	N/A



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Tal.	Page 57 of 64	Report No.: HK200	0201011-3K
OKTESTIN	IEC 62368-1	AK TESTING	WAKTESTIL
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden	- 6	N/A
	To the end of the subclause the following is added:	N. TESTING	OK TESTING
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the	O HUANTESTING	N. WALL
	screen of a cable distribution system.	O HO	
	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.	MILLY TESTING	WALESING C
	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:	● How	200
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective	WAY TEETING	MAKTESTING
	earthing – and to a television distribution system using 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 (galvanic isolator, see EN 60728-11)"	MAK TESTING MAK	TE TIME
	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 I.	NAKTESTING (
	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."	HARTESTING	MAKES THE
	Translation to Swedish:	HUAK	1
	"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."	HUNY TESTING HUNY TESTING	N MATERINE
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	WANTESTING	A HUAN TESTING
Ding	exceed the limits of 3,5 mA .	Slan	

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-0	Page 58 of 64	Report No.: HK2005	201011-5R
AKTESTING	IEC 62368-1	W. I.S. IMB	IAK TESTIL
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	TIME
G.4.2	Denmark	"IAKTESTI"	N/A
	To the end of the subclause the following is added:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	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.	- TING	- CTING
	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.	MAY TESTING	ALIAN TES
	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.	O HO. O HUAKT	300
	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.	WAY TESTING WH	JAN TESTING (
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	NAKTESTING	JAK TESTING
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	O I''	
,,-	Justification: Heavy Current Regulations, Section 6c	MIAN TO HUAKTO	E TIME
G.4.2	United Kingdom	TESTING	N/A
	To the end of the subclause the following is added:	HUAR	TING 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 Shutter Opening Povice (ISOP), the requirements of	O HUANTESTINE O H	J.M. TEST.
	Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	AKTESTING	NY TESTING

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Y TESTIN	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following is added:	STING TESTING	N/A
MAKESTING	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety)	HUANTESTING	EKUNG MUNICI
	Regulations 1994, Statutory Instrument 1994 No. 176 unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially	8, HUAN'S	
TESTIN	means an approved plug conforming to BS 1363 or an approved conversion plug.	MG HUME.	TESTING (
G.7.1	Ireland To the first paragraph the following is added:	O HUART.	N/A
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standar of another Member State which is equivalent to the relevant Irish Standard	ard WARTESTING	MAKTESTING
G.7.2	Ireland and United Kingdom	HUAKTLE OKT	N/A
0.7.2	To the first paragraph the following is added:	HUAN	IN/A
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	Pa HUM TESTING	K TESTING
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	WHINE . OH	N/A
10.5.2	Germany		N/A
	The following requirement applies:		
	For the operation of any cathode ray tube intended fo the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	HUAR	NAK TESTING
	Justification: German ministerial decree against ionizing radiation	HUAN T	EFTING
	(Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	NG HUNK TESTING	-m/G
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	HUAN TESTING	UNTESTING

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-Appendix 2: Photo document.



Photo 1: Overall view

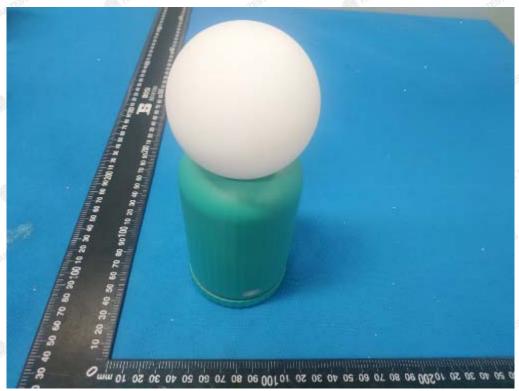


Photo 2: Side view

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Photo 3: Side view

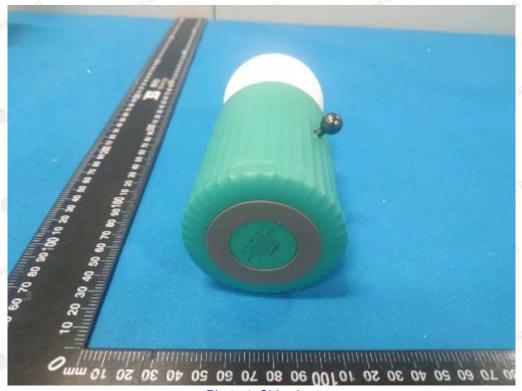


Photo 4: Side view

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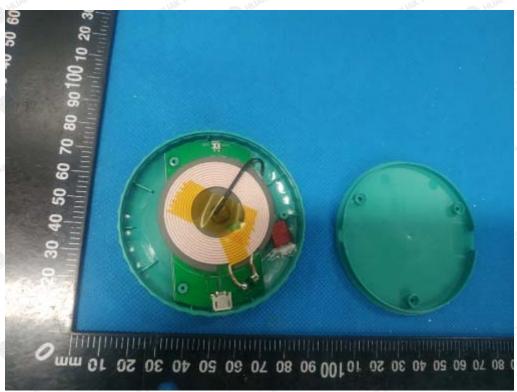


Photo 5: Internal view

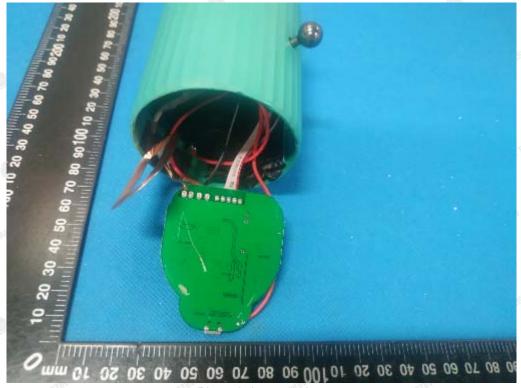


Photo 6: Internal view

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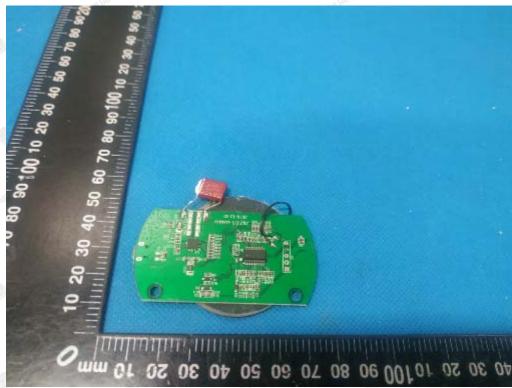


Photo 7: PCB view

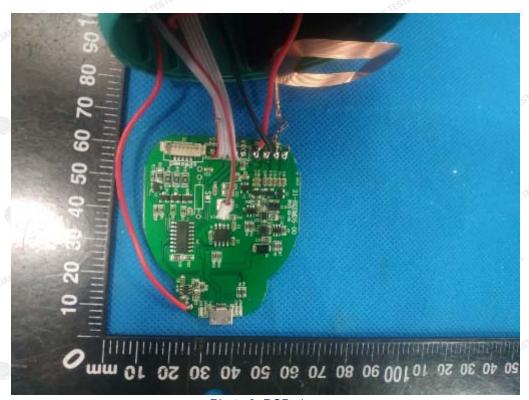


Photo 8: PCB view

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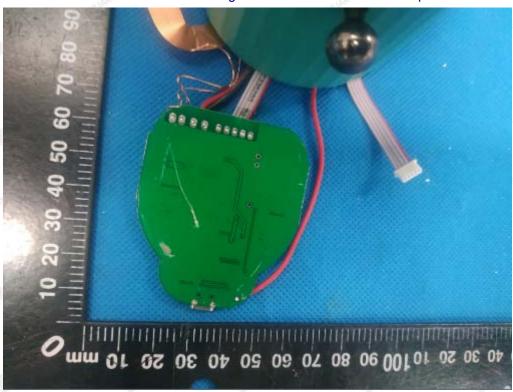


Photo 9: PCB view

----End of report-----

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