

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for:

Product: Wireless charging power bank

Trade Name: N/A

Model Name: UP-9175 (P322.20)

Date of Test: Jul. 12, 2020 to Jul. 20, 2020

Date of Report: Jul. 20, 2020

Report Number: HK2007151780-SR

Prepared By:

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TEST REPORT IEC 62368-1

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

Report Number: HK2007151780-SR

Date of issue: 2020-07-20

Total number of pages.....: 63

Applicant's name.....:

Address....:

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:	: Wireless charging power bank		
Trade Mark	N/A	WAY TESTA	THE HUANTESTING
Manufacturer			
Model/Type reference	UP-9175 (P322.20)	. 0	Arg.
Ratings	Micro IN: 5V === , 2A Type C IN: 5V === , 2A USB OUT 1&2: 5V=== , 1A Wireless OUT: 5V=== , 1A	MANAY TESTING	O HUMTESTING (

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		(6)			
Testing procedure and testing location:					
	Shenzhen HUAK Testin	Shenzhen HUAK Testing Technology Co., Ltd.			
Testing location/ address:	1F, B2 Building, Junfend Park, Heping Communit Shenzhen, China	ARTON CONTRACTOR			
☐ Associated Testing Laboratory:	TETNE	MAKIE	. TESTING		
Testing location/ address:	(a) HUN	esting	CE		
Tested by (name + signature):	Jason Cheng	Jews ARPER	FIGATION OF THE PROPERTY OF TH		
Approved by (name + signature):	Dendi Wei	Denoto			
☐ Testing procedure: TMP/CTF Stage 1:			SER HUAR		
Testing location/ address:			6		
Tested by (name + signature):	HUAKTES	0	MAKTES.		
Approved by (name + signature):	~	TESTING.			
Testing procedure: WMT/CTF Stage 2:	INC	ANTESTIN	_ martesin		
Testing location/ address:	0				
Tested by (name + signature):	TING	7016	-myG		
Witnessed by (name + signature)::	HUAVITES	HUAN TES	HUAK TES		
Approved by (name + signature):		9			
Testing procedure: SMT/CTF Stage 3 or 4:	O HUACTESTING	O HOM	5) FRIANTESTIN		
Testing location/ address:	is the same	AK TESTING	3 700		
Tested by (name + signature):	HUAKTEST	WAY TESTIN	HUAR TEST		
Witnessed by (name + signature):	1000	0	-		
Approved by (name + signature):			2006		
Supervised by (name + signature):	- MAN TESTING	- MAK TESTING	JUDK TESTING		

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List of Attachments (including a total nu -Appendix 1: For requirements of European	-		hment):	O kom
-Appendix 2: Photo attachments. (4 pages)		(1 3 /		
Summary of testing:	TESTING	- WAKTESTING	- JUAN TESTING	_ JUAN TESTING
Tests performed (name of test and test clause):		esting location: Shenzhen HUAK Tes	sting Technology	Co., Ltd.
All clauses.	F	F, B2 Building, Junf Park, Heping Commu Shenzhen, China		
MANNETTING WILLIAM OF HUM	LIAN TESTING			
MAKTESTAVE				
ESTING.		113"		E C
Summary of compliance with National Di European group differences.	ifferences	LIPAC I	W TESTING	O HURN.
MANATESTINE HUNT TESTING OF HUAN				
☐ The product fulfils the requirements of	of <u>EN 623</u>	68-1:2014+A11:2017	<u>7</u>	Jun.

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Copy of marking plate:

The artwork below may be only a draft.

Wireless charging power bank Model: UP-9175 (P322.20)
Micro IN: 5V=== , 2A
Type C IN: 5V=== , 2A
USB OUT 1&2: 5V=== , 1A
Wireless OUT: 5V=== , 1A



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TEST ITEM PARTICULARS:	
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☐ Children likely to be present
Supply Connection :	☐ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance ::	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	□ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⊠ other:
Considered current rating of protective device as part of building or equipment installation	A; Installation location: ☐ building; ☐ equipment
Equipment mobility	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plugin □ rack-mounting □ wall-mounted
Over voltage category (OVC)	□ OVC I □ OVC II □ OVC IV □ other:
Class of equipment	☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	2 <u>5</u> °C
IP protection class	☐ IP
Power Systems	☑ TN ☐ TT ☐ IT V _{L-L}
Altitude during operation (m)	2000 m or less m
Altitude of test laboratory (m)	☑ 2000 m or less ☐ m
Mass of equipment (kg)	

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POSSIBLE TEST CASE VERD	DICTS:	AK TESTINE OF THE	, TEST	NO NY TESTING
- test case does not apply to the	e test object:	N/A	HUPE	(a) 1,000
- test object does meet the requ	uirement:	P (Pass)		
- test object does not meet the	requirement:	F (Fail)	a)G	فكرم
GENERAL REMARKS:	- WAKTES!	- WARTES!	- WAY TES	- WAKTES!
"(See Enclosure #)" refers to "(See appended table)" refers Throughout this report a The related applicable OSM de Determination of the test result and methods.	s to a table appended t comma / point is us ecisions have been cons	o the report. sed as the decimal sidered and the quire	separator. ements found fulf	
Manufacturer's Declaration p	er sub-clause 4.2.5 of	ECEE 02:	TEST	US ON TESTING
The application for obtaining a includes more than one factory declaration from the Manufactu sample(s) submitted for evaluar representative of the products f been provided	location and a rer stating that the tion is (are) rom each factory has	☐ Yes☑ Not applicable	● HDAG	AND HANDER THE
When differences exist; they	shall be identified in th	ne General product	information sect	ion.
E MINNTES.	O TOTAL O	MARTES	O	MAKTES.
GENERAL PRODUCT INFOR	MATION:			
Product Description – The product is Wireless chargi plastic material of min. V-1 gra This product is only available for	de.		nted on PCB, ext	ernal enclosure is
Maximum recommended ambi	ent (Tmra): 25°C			
Model Differences –	0	HUAKTEST	0	THAK TEST
N/A				
Additional application consi	derations – (Considera	ations used to test	a component or	sub-assembly) –
N/A				

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

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

Electrically-caused injury (Clause 5):

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

classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)		
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)		
Input terminal	PS1		
Battery cell discharge	PS3		

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	-06	N/A	G. O	

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)
All source	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	Corresponding classification (TS)		
All source	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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ENERGY SOURCE DIAGRAM							
Indicate which energy sources are included in the energy source diagram. Insert diagram below							
⊠ ES ⋈ PS ⋈ MS ⋈ TS □ RS							X TESTING
Hom	All All	All Home	(A)	31-	AND HOT		All Home

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Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)		Safeguards		
(e.g. Ordinary)	(ESS. Filliary Filter Circuit)	Basic	Supplementary	Reinforced (Enclosure)	
All source	ES1	N/A	N/A	N/A	
HUAR	HILLE		AUA.		
6.1	Electrically-caused fire				
Material part	Energy Source		Safeguards		
(e.g. Wireless Keyboard enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Input terminal	PS1	N/A	N/A	N/A	
Battery cell discharge	PS3	N/A	N/A	N/A	
7.1	Injury caused by hazardous	substances			
Body Part	Energy Source Safeguards				
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
THAN TES	HIARTES	0	ALES COLUMN	To	
8.1	Mechanically-caused injury				
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
All source	MS1	N/A	N/A	N/A	
	-	1000		-	
9.1	Thermal Burn	MA.			
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
All source	TS1	N/A	N/A	N/A	
O HIM.	(a) Hillian		O HUK		
10.1	Radiation				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	

Supplementary Information:

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

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N/TES	THE WAY TENNED W	IEC 62368-1	ESTING W	X TESTING	IN TESTING W
Clause	Requirement + Test	9 m 9 m	Result - Remark	0.	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P
4.1.2	Use of components	See table 4.1.2	P
4.1.3	Equipment design and construction	No accessible part which could cause injury	Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness	See below	P
4.4.4.2	Steady force tests	(See Annex T.4, T.5)	AUAKTEP
4.4.4.3	Drop tests	(See Annex T.7)	Р
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)	P (
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	Р
4.5	Explosion	No explosion	P
4.6	Fixing of conductors	NUME TO SERVICE	N/A
4.6.1	Fix conductors not to defeat a safeguard	C THE	N/A
4.6.2	10 N force test applied to	WALL TO THE WALL	N/A
4.7	Equipment for direct insertion into mains socket - outlets	STING NAME OF THE PARTY OF THE	N/A
4.7.2	Mains plug part complies with the relevant standard:	THUS HUNG.	N/A
4.7.3	Torque (Nm)	9 mm 9 m	N/A
4.8	Products containing coin/button cell batteries	No lithium coin/button cell battery	N/A
4.8.2	Instructional safeguard	Din. Olm	N/A
4.8.3	Battery Compartment Construction	TES.	N/A
TING	Means to reduce the possibility of children removing the battery:	THE STATE	_
4.8.4	Battery Compartment Mechanical Tests:	(See Table 4.8.4)	N/A
4.8.5	Battery Accessibility	e sample(s) are retained for 30 days only. The docum	N/A

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	IEC 62368	3-1 restrict	
Clause	Requirement + Test	Result - Remark	Verdict
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current:	5VDC	Р
5.2.2.3	Capacitance limits	"IG MINKTE	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		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	P
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 could be accessible to ordinary person.	Р
5.3.2.2	Contact requirements	TING WHITE	N/A
MIAN TES IN	a) Test with test probe from Annex V:	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
WAX TESTING	b) Electric strength test potential (V):	The probe could not insert into the equipment as there is no ventilation on the product.	N/A
K TESTING	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	or testing	Р
5.4.1.2	Properties of insulating material	The choice and application have taken into account as specified in this Clause 5 and Annex T except natural rubber, hygroscopic materials or asbestos are not used as insulation.	P P
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

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Clause	Requirement + Test	Result - Remark	Verdict
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 TO STATE OF THE STATE OF	N/A
5.4.1.7	Insulation in circuits generating starting pulses	Wax.	N/A
5.4.1.8	Determination of working voltage	STING	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		N/A
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A
5.4.2.3	Determining clearance using required withstand voltage:	(See appended table 5.4.2.3)	N/A
	a) a.c. mains transient voltage	HUAN	_
(G	b) d.c. mains transient voltage:	TESTING	
-10	c) external circuit transient voltage:	THE MINIS	
MAKTES W	d) transient voltage determined by measurement	MANAGES OF	_
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	TESTIN HUAY TESTIN	N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	N/A
5.4.3.1	General	C JUANTES I	N/A
5.4.3.3	Material Group	IIIb What is a second of the s	_
5.4.4	Solid insulation	-STIME	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	iby TESTING - I	N/A
5.4.4.4	Solid insulation in semiconductor devices	9 hr. 0	N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	THE	N/A
5.4.4.6.1	General requirements	White the	N/A
5.4.4.6.2	Separable thin sheet material	-	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
2	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material	ESTING.	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	WAX TEST	N/A
5.4.4.7	Solid insulation in wound components	(HUAX)	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:	STING	N/A
5.4.5	Antenna terminal insulation	THE WHILE	N/A
5.4.5.1	General	JAK TESTING	N/A
5.4.5.2	Voltage surge test	0,,	N/A
	Insulation resistance (M Ω):		
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	2013	N/A
5.4.8	Humidity conditioning	400	N/A
	Relative humidity (%):	HILAN.	_
ig.	Temperature (°C):	TSTINE .	_
	Duration (h):	TING HUARE	_
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	0, 0	N/A
5.4.9.2	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit	ESTING HUAR TESTING	N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods	N TESTING	N/A
5.4.10.2.1	General	© NO.	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		N/A
5.4.11.2	Requirements	-STATE	N/A
HUNKTE	Rated operating voltage U _{op} (V)	IN WAY TO	
2	Nominal voltage U _{peak} (V):		_

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TESTIN	IEC 62368-1	STILES THE	K TESTING
Clause	Requirement + Test	Result - Remark	Verdict
	Max increase due to variation U _{sp} :		_
. W. TESTING	Max increase due to ageing ΔU _{sa} :	(ESTAN)	
)**	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:	0, 0	
5.5	Components as safeguards	-c5TWG	
5.5.1	General	HORACE TO THE	N/A
5.5.2	Capacitors and RC units	(a) (b)	N/A
5.5.2.1	General requirement	ON TESTING	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		ρN/A
5.5.7.2	Use of an SPD between mains and protective earth	O HIDAY	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	- atherita	N/A
5.6.2	Requirement for protective conductors	0	N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation	ESTING TESTING	N/A
5.6.3	Requirement for protective earthing conductors	No.	N/A
G	Protective earthing conductor size (mm²)	- No.	
5.6.4	Requirement for protective bonding conductors	- wartes	N/A
5.6.4.1	Protective bonding conductors	HUAR	N/A
Ġ	Protective bonding conductor size (mm²)	-51m ³	_
	Protective current rating (A):	THE MALLEY	
5.6.4.3	Current limiting and overcurrent protective devices	Martis III	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement	Die Ole	N/A
MAXTESTON	Conductor size (mm²), nominal thread diameter (mm).	ES	N/A
5.6.5.2	Corrosion	- also	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements	ESTITUTE THE TESTING	N/A
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	N/A
5.6.7	Reliable earthing	TESTING.	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	O HOS	N/A
5.7.2.1	Measurement of touch current	W.T.E.TITA	N/A
5.7.2.2	Measurement of prospective touch voltage	THE NEW THE	N/A
5.7.3	Equipment set-up, supply connections and earth connections	O HUAN IS O HI	N/A
e)G	System of interconnected equipment (separate connections/single connection):		_
HUAK TEST	Multiple connections to mains (one connection at a time/simultaneous connections)		_
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current	- T-	N/A
	Supply Voltage (V)	Hine.	_
le.	Measured current (mA):	TSTNE	_
	Instructional Safeguard:	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	MILLE TEST	N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	ESTING AN TESTING	N/A
5.7.7	Summation of touch currents from external circuits	0	N/A
KTESI	a) Equipment with earthed external circuits Measured current (mA)	MARTES IN SAKTE	N/A
ŊĠ.	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	TESTING ON	N/A

6	ELECTRICALLY- CAUSED FIRE		AKTE P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits.	NAME OF PASS

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	IEC 6236	8-1	
Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault	.: (See appended table 6.2.2)	LOK TEP
6.2.2.3	Power measurement for worst-case power sour fault		Р
6.2.2.4	PS1	.: 9.8W after 3s	ти Р
6.2.2.5	PS2	.: (See appended table 6.2.2)	N/A
6.2.2.6	PS3	.: 136.5W after 5s (Battery cell discharge)	Р
6.2.3	Classification of potential ignition sources	TESTING	P
6.2.3.1	Arcing PIS	.: (See appended table 6.2.3.1)	Р
6.2.3.2	Resistive PIS	.: (See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating	and abnormal operating conditions	P
6.3.1 (a)	No ignition and attainable temperature value les than 90 % defined by ISO 871 or less than 300 for unknown materials	°C 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 condit	tions	Р
6.4.1	Safeguard Method	Approved fire enclosure used	Р
6.4.2	Reduction of the likelihood of ignition under sing fault conditions in PS1 circuits	gle Market Company	Po
6.4.3	Reduction of the likelihood of ignition under sing fault conditions in PS2 and PS3 circuits	gle Mine I	Р
6.4.3.1	General		Р
6.4.3.2	Supplementary Safeguards	By equipped plastic fire enclosure.	N/A
HUNK	Special conditions if conductors on printed boarre opened or peeled	No such case happened.	N/A
6.4.3.3	Single Fault Conditions	. : (See appended table 6.4.3)	N/A
	Special conditions for temperature limited by fu	use Market	N/A
6.4.4	Control of fire spread in PS1 circuits	0,10	Р
6.4.5	Control of fire spread in PS2 circuits	MAN TESTINA	N/A
6.4.5.2	Supplementary safeguards	.: (See appended tables 4.1.2 and Annex G)	N/A
6.4.6	Control of fire spread in PS3 circuit	9	Р
6.4.7	Separation of combustible materials from a PIS	5	N/A
6.4.7.1	General	.: (See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance	Malan Walnut W	N/A
6.4.7.3	Separation by a fire barrier		N/A

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y TESTIN	IEC 62368-1	STIPE WESTING	LAN TESTING
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8	Fire enclosures and fire barriers		Р
6.4.8.1	Fire enclosure and fire barrier material properties	V-0 fire material provided.	LIAN TEP
6.4.8.2.1	Requirements for a fire barrier	(a)	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0 fire material provided.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	O INIAN'T	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings.	N/A
6.4.8.3.2	Fire barrier dimensions	ING WHINK	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	HUMATES IN B	N/A
	Needle Flame test	7.00	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):		N/A
Hom	Flammability tests for the bottom of a fire enclosure	<i>(</i> 20)	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	-	□ 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	STING WESTING	N/A
6.5.1	Requirements	UL certificated internal wire provided. (see appended table 4.1.2)	N/A
6.5.2	Cross-sectional area (mm²)	TING	_
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	- WAYTETING	N/A
.A	External port limited to PS2 or complies with Clause Q.1	(See Annex Q.1)	N/A

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		N/A	
7.4	Use of personal safeguards (PPE)	TESTA MAKTESTA	N/A	
9,	Personal safeguards and instructions:	0, 0		

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
7.5	Use of instructional safeguards and instructions		N/A
MAK TESTIN	Instructional safeguard (ISO 7010)	ESTI.	_
7.6	Batteries	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		
8.1	General	See the following details.	Р
8.2	Mechanical energy source classifications	Sharp edges and corners, classified as MS1 Equipment maximum mass < 7 kg, classified as MS1	P ov TESTING
8.3	Safeguards against mechanical energy sources	0 mm 0 m	N/A
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	P
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts within the equipment.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	O. HIAKI	N/A
8.5.2	Instructional Safeguard:	TESTING.	_
8.5.4	Special categories of equipment comprising moving parts	THE WHOME	N/A
8.5.4.1	Large data storage equipment	0 40 m	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		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	0,	N/A
-cSTING	Instructional Safeguard	STING	_
8.5.4.2.3	Disconnection from the supply	MIAK II	N/A
8.5.4.2.4	Probe type and force (N)	(No.	N/A
8.5.5	High Pressure Lamps	NY TESTING.	N/A
8.5.5.1	Energy Source Classification	THE ONE	N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability		N/A
8.6.1	Product classification	36 380	N/A
MAKTESTING	Instructional Safeguard	ESTING AKTESTING	_
8.6.2	Static stability	(a) (b)	N/A

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STAY	IEC 62368-1	STING OF THE	TESTING
Clause	Requirement + Test	Result - Remark	Verdict
8.6.2.2	Static stability test		N/A
TESTING	Applied Force	ESTAG TESTAG	
8.6.2.3	Downward Force Test	(C)	N/A
8.6.3	Relocation stability test	- NG	N/A
0.0.0	Unit configuration during 10° tilt	HUAN TEE!	IN/A
8.6.4	Glass slide test	(ii) (iii) (N/A
8.6.5	THE STATE OF THE S	TSTOP W	N/A
5.0.5	Horizontal force test (Applied Force)	THE WILLIAM TO	IN/A
O - WAR TESTIN	Position of feet or movable parts	21 Martistus	- NI/A
8.7	Equipment mounted to wall or ceiling	9,"	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength	600	N/A
8.8.1	Classification		N/A
8.8.2	Applied Force	- T-	N/A
8.9	Wheels or casters attachment requirements	thru,	N/A
8.9.1	Classification	TESTING	N/A
8.9.2	Applied force	THE FRIENCE	_
8.10	Carts, stands and similar carriers	HANTES! BE	N/A
8.10.1	General	0 9	N/A
8.10.2	Marking and instructions		N/A
T.STING	Instructional Safeguard	-STING	_
8.10.3	Cart, stand or carrier loading test and compliance	HURA CO	N/A
-16	Applied force		_
8.10.4	Cart, stand or carrier impact test	- WAY TESTER	N/A
8.10.5	Mechanical stability	O HUNEY	N/A
ß	Applied horizontal force (N)	-STING	_
8.10.6	Thermoplastic temperature stability (°C)	ING MUNICE	N/A
8.11	Mounting means for rack mounted equipment	JAN TESTING	N/A
8.11.1	General	9 W	N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N	-STNG	N/A
8.11.4	Mechanical strength test 250N, including end stops	White.	N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A

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NY TESTIN	G WAY TESTING	IEC 62368-1	o O TESTING	UNITESTING (
Clause	Requirement +	Test	Result - Remark	Verdict
ى.	Button/Ball diameter (mm)		illa de de	_

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		N/A
10.2.1	General classification		N/A
10.3	Protection against laser radiation	<u> </u>	N/A
TING	Laser radiation that exists equipment:		_
Kilo	Normal, abnormal, single-fault:	(See attached laser test report)	N/A
-	Instructional safeguard:	Municipal Physics	_
(6	Tool:	V TESTING	_
10.4	Protection against visible, infrared, and UV radiation	THE NEW TESTINE	N/A
10.4.1	General	0,	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:		N/A
10.4.1.b)	RS3 accessible to a skilled person:	-This	N/A
HONE	Personal safeguard (PPE) instructional safeguard:	O HUMP TO	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	TSTING	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:	Talke O Hole	N/A
10.4.1.f)	UV attenuation	THE PRIPE	N/A
10.4.1.g)	Materials resistant to degradation UV	JAK TESTI.	N/A
10.4.1.h)	Enclosure containment of optical radiation:	9,,	N/A
10.4.1.i)	Exempt Group under normal operating conditions:	die de	N/A
10.4.2	Instructional safeguard:	ES!	N/A
10.5	Protection against x-radiation	0, 0	N/A

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	X- radiation energy source that exists equipment:	(See appended table B.3 & B.4)	N/A
HAN TESTIN	Normal, abnormal, single fault conditions	ESTI-	N/A
	Equipment safeguards	(a)	N/A
-CSTING	Instructional safeguard for skilled person:	TSTING	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	O HUANT	_
3	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A
	Maximum radiation (pA/kg)	THE PHARM	N/A
10.6	Protection against acoustic energy sources	JAK TESTING	N/A
10.6.1	General	0,,,	N/A
10.6.2	Classification		N/A
-STING	Acoustic output, dB(A):		N/A
HIDKE	Output voltage, unweighted r.m.s:		N/A
10.6.4	Protection of persons		N/A
TESTIVE	Instructional safeguards		N/A
	Equipment safeguard prevent ordinary person to RS2	O HIAKT	_
	Means to actively inform user of increase sound pressure	THE RULE THE THE	_
MAK TESTI	Equipment safeguard prevent ordinary person to RS2:	MAKITESII.	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.5.1	Corded passive listening devices with analog input	ISTING HUAY TESTING	N/A
TESTING	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	TESTING.	_
10.6.5.2	Corded listening devices with digital input	WIAT.	N/A
	Maximum dB(A):	(a) HOW	_
10.6.5.3	Cordless listening device	av ESTING	N/A
, and	Maximum dB(A):	TING WHO	

	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.2	Normal Operating Conditions	ESTING ESTING	PNG
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	^{Magne} P

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
TESTING	Audio Amplifiers and equipment with audio amplifiers	ESTING TSTING	N/A
B.2.3	Supply voltage and tolerances	Market Company	N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	3 WIAKTES	TING P
B.3.1	General requirements	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings	No temperature limit exceeded	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)	Р
B.3.6	Reverse battery polarity		P
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effectively.	P
B.4	Simulated single fault conditions	(1) Hallon	Р
B.4.2	Temperature controlling device open or short-circuited:	(See appended table B.4)	N/A
B.4.3	Motor tests	JAK TESTING	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	Stor. Stor.	N/A
B.4.4.1	Short circuit of clearances for functional insulation	TES WAY TES	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	Will Company	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	Marie agent	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	NATESTING	Р
B.4.6	Short circuit or disconnect of passive components	TIME OF HOLE	P (
B.4.7	Continuous operation of components	MAK'TE OF H	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions		Р
B.4.9	Battery charging under single fault conditions:	Dian Dian	Pug

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V TESTIN	IEC 6	2368-1	V TESTING LANTESTING
Clause	Requirement + Test	Result	- Remark Verdict
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from radiation	UV HIAL RESTRE	N/A
C.1.2	Requirements		N/A
C.1.3	Test method	rate and	N/A
C.2	UV light conditioning test	MAKTES!	N/A
C.2.1	Test apparatus	- m	N/A
C.2.2	Mounting of test samples	-1G AND HUAKTED	N/A
C.2.3	Carbon-arc light-exposure apparatus	MAK'TE STILL	N/A
C.2.4	Xenon-arc light exposure apparatus	0	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT C	ONTAINING AUDIO AMF	PLIFIERS N/A
E.1	Audio amplifier normal operating condition	S at The S	N/A
JG:	Audio signal voltage (V)		. 0 _
	Rated load impedance (Ω)	-711	
E.2	Audio amplifier abnormal operating conditi		N/A
F	EQUIPMENT MARKINGS, INSTRUCTION	NS, AND INSTRUCTIONA	AL SAFEGUARDS P
F.1	General requirements		Р
HUAN TESTING	Instructions – Language	and the second s	The manufacturer ide them in the countries where
F.2	Letter symbols and graphical symbols	ESTING HUA	STATE P
F.2.1	Letter symbols according to IEC60027-1	HUAK.	FRURING P
F.2.2	Graphic symbols IEC, ISO or manufacture specific	r HUAKTESTIN	Р
F.3	Equipment markings	OK TESTING	WTESTING MEESTING
F.3.1	Equipment marking locations	On the product	6 M P
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification	: See marking	
F.3.2.2	Model identification	C5(1)	MAK TESTA
F.3.3	Equipment rating markings	0	P

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	IEC 62368-1		
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	TEST IN LOW TEST IN	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:	NUMBER OF THE PROPERTY OF THE	_
F.3.3.6	Rated current or rated power:	See marking	_
F.3.3.7	Equipment with multiple supply connections	OKTESTIVE	N/A
F.3.4	Voltage setting device	TIME OF THE	N/A
F.3.5	Terminals and operating devices	William Oly	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:		N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Terminal marking location	- 10×10	N/A
F.3.6	Equipment markings related to equipment classification	"TESTING" (I) I'M	N/A
F.3.6.1	Class I Equipment	TING WINDS	N/A
F.3.6.1.1	Protective earthing conductor terminal	HUARTES!	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 TESTING	PING
F.3.6.2.1	Class II equipment with or without functional earth	(C) HILDER	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	WIETHE	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 ANTESTING
F.3.10	Test for permanence of markings	Complied	Р
F.4	Instructions		Р
HUAK TESTING	a) Equipment for use in locations where children not likely to be present - marking	The accessibility of equipment was evaluated by using test probe of Figure V.2.	P _m ys

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
HUANTESTING	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	P HUAK TESTING
2.	c) Equipment intended to be fastened in place	See above.	Р
K TESTING	d) Equipment intended for use only in restricted access area	The EUT is not such type equipment	N/A
B	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
(a) HOW	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
j)	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 AN	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	.6)*	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	N/A
G.2	Relays	STING	N/A
G.2.1	General requirements	No such relay provided within the equipment.	N/A
G.2.2	Overload test	-c5TNG	N/A
G.2.3	Relay controlling connectors supply power	THE HUAN	N/A
G.2.4	Mains relay, modified as stated in G.2	JAY TESTIN	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)	ES INDAY TEST	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 TESTING	N/A		
G.3.1.2	Thermal cut-off connections maintained and secure	O Inne	N/A		
G.3.2	Thermal links	S WIESTING	N/A		
G.3.2.1a)	Thermal links separately tested with IEC 60691	O HOLE	N/A		
G.3.2.1b)	Thermal links tested as part of the equipment	-16	N/A		
	Aging hours (H):	- WANTES IN			
TESTIN	Single Fault Condition:	STING (S)			
W HOWA	Test Voltage (V) and Insulation Resistance (Ω). : PTC Thermistors No PTC thermistor provided within		_		
G.3.3	PTC Thermistors No PTC thermistor provided within the equipment.				
G.3.4	Overcurrent protection devices		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				
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A		
G.4	Connectors	THE	N/A		
G.4.1	Spacings	TO THUM IT	N/A		
G.4.2	Mains connector configuration	WIESTING.	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	UAKTES!	N/A		
G.5.2	Endurance test on wound components	O L.	N/A		
G.5.2.1	General test requirements	STING	N/A		
G.5.2.2	Heat run test	THE HUARTE	N/A		
LAKTESTIN	Time (s):	SAL ON TESTING			
9 11	Temperature (°C)	0 m	_		
G.5.2.3	Wound Components supplied by mains		N/A		
G.5.3	Transformers	STATE STATE	N/A		
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	O Imax in	N/A		

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	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Position:		_		
AK TESTAN	Method of protection	KETING LAKETING	_		
G.5.3.2	Insulation	(a)	N/A		
CSTING	Protection from displacement of windings:	- ESTING	_		
G.5.3.3	Overload test	MARTI	N/A		
G.5.3.3.1	Test conditions	() Water	N/A		
G.5.3.3.2	Winding Temperatures testing in the unit				
G.5.3.3.3	Winding Temperatures - Alternative test method	SING O HOW	N/A		
G.5.4	Motors	WW. LES	N/A		
G.5.4.1	General requirements		N/A		
	Position				
G.5.4.2	Test conditions		N/A		
G.5.4.3	Running overload test	600	N/A		
G.5.4.4	Locked-rotor overload test		N/A		
	Test duration (days)		_		
G.5.4.5	Running overload test for d.c. motors in secondary circuits	CHRIS WILLIAM	N/A		
G.5.4.5.2	Tested in the unit	THE HUAN	N/A		
MAK TESTI	Electric strength test (V)	EST WAY TESTING	_		
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	0, 0	N/A		
300	Electric strength test (V)	and and	_		
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	TESTS WILLY TESTS	N/A		
G.5.4.6.2	Tested in the unit	TING	N/A		
KTES	Maximum Temperature	G HIAKTE	N/A		
	Electric strength test (V)	A FIJAK	N/A		
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	HUANTESTING	N/A		
K TESTIN	Electric strength test (V)	SIL. (II)	N/A		
G.5.4.7	Motors with capacitors		N/A		
G.5.4.8	Three-phase motors		N/A		
G.5.4.9	Series motors		N/A		
HUAKTES	Operating voltage	WAY TEE	_		
G.6	Wire Insulation	9	N/A		

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W TESTIN	IEC 62368-1	STILL WITSTING	AK TESTING
Clause	Requirement + Test	Result - Remark	Verdict
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation	ESTING LAKTESTING	N/A
G.7	Mains supply cords	0, 0	N/A
G.7.1	General requirements	CSTING	N/A
100	Туре:	HUDY TO	_
	Rated current (A)	O HO	_
8	Cross-sectional area (mm²), (AWG):	N. TESTING	_
G.7.2	Compliance and test method	STING WHAT	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	O HILLY O H	N/A
G.7.3.2	Cord strain relief	N/A	
G.7.3.2.1	Requirements		N/A
HOOK	Strain relief test force (N)	A.	_
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		_
G.7.3.2.4	Strain relief comprised of polymeric material	W HINKEY	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 HUAK I	N/A
G.7.5.1	Requirements	JAK TESTING	N/A
G.7.5.2	Mass (g) :::	0,	_
	Diameter (m)		_
-ESTING	Temperature (°C)	-STING	_
G.7.6	Supply wiring space	White.	N/A
G.7.6.2	Stranded wire	200	N/A
G.7.6.2.1	Test with 8 mm strand	WAYTEST	N/A
G.8	Varistors	O HUAKT	N/A
G.8.1	General requirements	COTING CO	N/A
G.8.2	Safeguard against shock	THE WALLE	N/A
G.8.3	Safeguard against fire	AKTESTINE - AL	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	TIME STATE	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	HUAN TE	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:	2 2	_		
G.9.1 d)	IC limiter output current (max. 5A)	ESTING ON TESTING	_		
G.9.1 e)	Manufacturers' defined drift:	0,00	_		
G.9.2	Test Program 1	_tSTMG	N/A		
G.9.3	3 Test Program 2		N/A		
G.9.4	4 Test Program 3				
G.10) Resistors		N/A		
G.10.1	General requirements	TIME WHITE	N/A		
G.10.2	Resistor test	MINNES ON	N/A		
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A		
G.10.3.1	General requirements				
G.10.3.2	Voltage surge test		N/A		
G.10.3.3	Impulse test		N/A		
G.11	Capacitor and RC units		N/A		
G.11.1	General requirements		N/A		
G.11.2	Conditioning of capacitors and RC units	MAKTESTI	N/A		
G.11.3	Rules for selecting capacitors	STANCE OF THE	N/A		
G.12	Optocouplers	HADA.	N/A		
, MC	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):	THIS THIS	N/A		
HUAKTES	Type test voltage Vini:	TEST HUNK TEST	_		
	Routine test voltage, Vini,b:		_		
G.13	Printed boards	S VIESTING	N/A		
G.13.1	General requirements	O HUM	N/A		
G.13.2	Uncoated printed boards		N/A		
G.13.3	Coated printed boards	- JUANTES	N/A		
G.13.4	Insulation between conductors on the same inner surface	STREE OF THE MAN TESTINE	N/A		
	Compliance with cemented joint requirements (Specify construction)		_		
G.13.5	Insulation between conductors on different surfaces	ESTING WAY TENNIG	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	ANTESTIN'S	N/A
G.13.6.1	Sample preparation and preliminary inspection	0,,,	N/A
G.13.6.2a)	Thermal conditioning	TO THE	N/A
G.13.6.2b)	Electric strength test	White the	N/A
G.13.6.2c)	Abrasion resistance test	O Harry	N/A
G.14	Coating on components terminals	N TESTING	N/A
G.14.1	Requirements (S	See G.13)	N/A
G.15	Liquid filled components	MILINY TEAM	N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test	Ø.	N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test	M HUAN	N/A
G.15.3.5	Thermal cycling test	"TESTING	N/A
G.15.3.6	Force test	NG WHOME	N/A
G.15.4	Compliance	HUAN TEST	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	THE THE	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage	O HARTE	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	MAKTESTING	N/A
C2)	Test voltage:	O POLART	_
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A
D2)	Capacitance ::	- WANTES IN	_
D3)	Resistance ::		_
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	TESTING	N/A
H.2	Method A	© Intra	N/A
H.3	Method B		N/A

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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
H.3.1	Ringing signal		N/A	
H.3.1.1	Frequency (Hz)	TETHER WAS		
H.3.1.2	Voltage (V)	0,44		
H.3.1.3	Cadence; time (s) and voltage (V)	-STING		
H.3.1.4	Single fault current (mA):	HUDATE		
H.3.2	Tripping device and monitoring voltage	O man	N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	THE HUM TESTING	N/A	
H.3.2.2	Tripping device	WAY TEST	N/A	
H.3.2.3	Monitoring voltage (V):	9	_	
J	INSULATED WINDING WIRES FOR USE WITHO	OUT INTERLEAVED INSULATION	Р	
TESTING	General requirements	(See separate test report)	Ping	
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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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
M	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements		Р
M.2.2	Compliance and test method (identify method):		Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		Р
	- Excessive discharging rate for any battery		Р
M.3.3	Compliance	(See appended Tables and Annex M and M.4)	Р
M.4	Additional safeguards for equipment containing secondary lithium battery	Certified battery used	Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
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		Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р

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NATESTIN	IEC 62368-1	EST. WITESTING	UAK TEST P
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		Р
M.6.1	Short circuits		Р
M.6.1.1	General requirements		Р
M.6.1.2	Test method to simulate an internal fault		Р
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> (m ³ /s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		Р
M.9.1	Protection from electrolyte spillage		Р
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used	Pollution degree considered	_
0	MEASUREMENT OF CREEPAGE DISTANCES	AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:		
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements	No openings	N/A

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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				
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):				
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 INTERCONNECTIO	N WITH BUILDING WIRING	N/A		
Q.1	Limited power sources		N/A		
Q.1.1 a)	Inherently limited output		N/A		
Q.1.1 b)	Impedance limited output		N/A		
	- Regulating network limited output under normal operating and simulated single fault condition		N/A		
Q.1.1 c)	Overcurrent protective device limited output		N/A		
Q.1.1 d)	IC current limiter complying with G.9		N/A		
Q.1.2	Compliance and test method		N/A		
Q.2	Test for external circuits – paired conductor cable		N/A		
	Maximum output current (A)		_		
	Current limiting method		_		

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ON TESTIN	JO NAME TO A TO	STILL (II)	EC 62368-1	W. TESTING	TAN TESTING	
Clause	0	Requirement + Test	0,	Result - Remark	Verdict	
R	LIMITED	SHORT CIRCUIT TEST			N/A	
R.1	General re	equirements			N/A	
R.2	Determination of the overcurrent protective device and circuit					
R.3		od Supply voltage (V) and s			N/A	
S	TESTS FOR RESISTANCE TO HEAT AND FIRE				N/A	
S.1	barrier ma	lity test for fire enclosures a terials of equipment where er does not exceed 4 000 W	the steady		N/A	
	Samples,	material	:		_	
	Wall thick	ness (mm)	:		_	
	Conditioni	ng (°C)	:			
		e according to IEC 60695-1 as set out	1-5 with		N/A	
	- Material	not consumed completely			N/A	
	- Material	extinguishes within 30s			N/A	
	- No burn	ing of layer or wrapping tiss	sue		N/A	
S.2	Flammabi integrity	lity test for fire enclosure ar	nd fire barrier		N/A	
	Samples,	material	:		_	
	Wall thick	ness (mm)	:		_	
	Conditioni	ng (°C)	:		_	
		e according to IEC 60695-1 as set out	1-5 with		N/A	
	Test speci	imen does not show any ad	lditional hole		N/A	
S.3	Flammabi enclosure	lity test for the bottom of a f	ire		N/A	
	Samples,	material	:		_	
	Wall thick	ness (mm)	:		_	
	Cheeseclo	oth did not ignite			N/A	
S.4	Flammabi	lity classification of material	S		N/A	
S.5	barrier ma	lity test for fire enclosures a terials of equipment where er does not exceed 4 000 W	the steady		N/A	
	Samples,	material	:		_	
	Wall thick	ness (mm)			_	

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777	Page 37 of 63	AND THE PERSON NAMED IN COLUMN TO SERVICE AND THE PERSON NAMED IN COLUMN	TESTING
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		Р
T.1	General requirements		Р
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)	Р
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)	Р
T.8	Stress relief test:	(See appended table T8)	Р
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		_
	Height (m):		_
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		_
U	MECHANICAL STRENGTH OF CATHODE RAY 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 (FII	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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			- All 10 100 100 100 100 100 100 100 100 10	
N.TES	THE THE THE	IEC 62368-1	W.TESTING	- INV. TESTING
Clause	Requirement + Test	Re	esult - Remark	Verdict

4.1.2	TABLE: List of critical of	components				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) o	
PCB	Fai Wong Electronic Pcb Co.	FW-4	V-0, 130°C, min. 1.0mm	EN 62368-1	UL E1717 and tester appliance	d with
Plastic enclosure	LG Chemical Ltd.	AF312C	V-0, 70°C, min. thickness: 1.5mm	EN 62368-1	UL E6717 tested wit appliance	h
Internal wire	SHENZHEN HONGYA ELECTRONICS CO LTD	2725	28AWG, 30Vac, 80°C	EN 62368-1	UL E3469 and tester appliance	d with
Battery	NV	955465	3.7VDC, 5000mAh, 18.5Wh	EN 62133-2	CE appro	ved

Supplementary information:

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



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AK TESTING	IEC 62368-1	W.LELMO	HAN TESTING
Clause	Requirement + Test	Result - Remark	Verdict

4.8.4, 4.8.5	TABLE: Li	thium coin/button cell batterie	s mechanical tests	NAKTESTING	N/A
(The follow	wing mechanica	Il tests are conducted in the seque	ence noted.)		1000
4.8.4.2	TABLE: St	ress Relief test	.6 .05	tes m.	_
441	Part	Material	Oven Temperatu	re (°C)	Comments
gG .	9	TIVE W	-mvG		ķ.
4.8.4.3	TABLE: Ba	ttery replacement test	IS AN HUAK TES	2	_
Battery pa	art no	:	MAKTESING	NY TESTING	_
Battery In	stallation/witho	Irawal	Battery Installation/Ren	noval Cycle	Comments
			1		
-myG			2		SAME
HUAK TES			3		HUAK TE
9			4		54
KTESTING			5		6
			6	7000	MAKTES.
JG:			8		
			9		
TEST			10	"TESTING	INK TESTING W
4.8.4.4	TABLE: Dro	op test	9	MINN.	_
Impact Ar	rea	Drop Distance	Drop No.		Observations
V TESTING	. act	STING WESTING	w TESTING 1	W TESTING	WTESTING
NO.	@ HUN	€ ton	2	in.	(Harry
TSTING		-STING	3	eSTING	_
4.8.4.5	TABLE: Imp	pact	W.TESTING MURRY		_
Impacts	per surface	Surface tested	Impact energy	(Nm)	Comments
		ANTESTI"	HAY TESTIL		
-25	ING TEST	ENG OF THE	TESTING OF THE	-c5TING	TESTING (
MANAN.	W HOPE	HUME	MIN.	SO HUAK	(a) HUNG
4.8.4.6	TABLE: Cr	ush test	38		_
Test	position	Surface tested	Crushing Force	e (N)	Duration force applied (s)
Mon	O HUPS	Why.	O man	War	MUPA.
, NG		Die		.alG	

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AND BOTH			
	IEC 62368-1	THE THE	TAX TESTING
Requirement	+ Test	Result - Remark	Verdict
TABLE: Lithium coin/butto	on cell batteries mecha	nical tests	N/A
ng mechanical tests are conduc	ted in the sequence note	d.)	1 3 32
ary information:	-n/G	, NG	
	TABLE: Lithium coin/butto	Requirement + Test TABLE: Lithium coin/button cell batteries mechangemechanical tests are conducted in the sequence note	Requirement + Test Result - Remark TABLE: Lithium coin/button cell batteries mechanical tests ag mechanical tests are conducted in the sequence noted.)

4.8.5	TABLE: Lithiu	m coin/button cell batteries i	mechanical test result	T YNAK TE	N/A
Tes	t position	Surface tested	Force (N)		tion force plied (s)
200	TEST NG	O	TESTING OF PARTY	gG.	TESTING (
Suppleme	entary information:				

5.2	Table: 0	Classification of	electrical energy	sources				Р	
5.2.2.2	 Steady Stat 	e Voltage and Cu	rrent conditions						
	0 1	Location (e.g.			Parameters				
No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpl	k) (A	l pk or Arms)	Hz	ES Class	
1	5VDC	Input to	Normal	5VDC			W tiny		
		accessible	Abnormal	5VDC	NK TES	TUNG		ES1	
	ESTING - HU	parts	Single fault – SC/OC	5VDC	9 H	LAK TEE	III	L'TESTING (
5.2.2.3	- Capacitance	Limits							
	Supply	Location (e.g.	+ ();;				arameters		
No.	Voltage	circuit designation)	Test conditions	Capacitance, nF		Upł	ES Class		
Hom	- 6	7bs.	Normal	- D HUM		D HOM	6	Proc.	
			Abnormal			- STING			
	HUAK TEE	(u _{re}	Single fault – SC/OC	HUAR TESTING	(a)	Lak Pro	FUAK TES	TOTE	
5.2.2.4	- Single Pulse	es							
	Supply	Location (e.g.	+ ();;		Paran	neters		F0 01	
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Duration (ms) Upk		lpk (mA)	ES Class	
	-		Normal	_			9		
			Abnormal						
	Chig.	JAK TESTING	Single fault – SC/OC	- HUAK TESTING		MIAKT STAN	3	JAK TESTING	

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AK TESTING	IEC 62368	1 testing	WANTESTING W
Clause	Requirement + Test	Result - Remark	Verdict

5.2.2.5	5 - Repetitive I	Pulses						
	Supply	Location (e.g.	-		Parameters		F0.01	
No.	No. Voltage circuit designation)		Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class	
K TESTIN			Normal		- AKTESTI	9	36	
0 44	"IAK"	2 mrs	Abnormal	"IAK TESTIN	@ HO	- JAKTE	In a	
TNG	O HILBER		Single fault – SC/OC		WTESTING	- 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	S							JAK TEST P
TESTING	Supply voltage (V)		:		5VE	OC					
176	Ambient T _{min} (°C)		:	23.	.2	25.0	0			NA TES	_
uc 🚳 🗥	Ambient T _{max} (°C)	NG	:	23.	.3	25.0	0	AG.		(b) "	_
Maximum meas	sured temperature T of pa	art/at:					T (°	C)			Allowe d T _{max} (°C)
PCB		(10)		32.	.6	34.4	4	(6)		<u> </u>	130
Plastic enclosur	e			29.	.6	31.4	4				70
Internal wire	or TESTING	W.TESTING		28.	.8	30.6	6	- 1	TESTING		80
Battery surface	e 🐧 '''' 🔞	No.		30.	.3	32.	1 -{	Din		9 "	60
Supplementary	information:	STING	•				•	-ST	NG.	•	
Temperature T	of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ ((°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulatio n class
NG.	W TESTI	3					"TEST	ig.			
Supplementary	information: N/A		on See			THIS (D HOPE			anG	TING (

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5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics Penetration (mm)			HUAKTES.	Page	42 of 63	in an in	Repo	ort No.: HK2007	151780-SF
5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics N/A Penetration (mm)	AK TESTAY	G WAYTESTING	9	IEC 6	2368-1	. O		OK TESTING	JAK TESTING
Penetration (mm)	Clause	R	equirement +	Test	(9)	I	Result - Re	mark	Verdict
Object/ Part No./Material Manufacturer/t rademark T softening (°C) supplementary information: 5.4.1.10.3 TABLE: Ball pressure test of thermoplastics N/A Allowed impression diameter (mm) — Object/Part No./Material Manufacturer/trademark Test temperature (°C) Impression diameter (m Supplementary information: 5.4.2.2, 5.4.2.4 and 5.4.3 TABLE: Minimum Clearances/Creepage distance N/A Supplementary information: Required Cl Required Cl (mm) Cr (mm) Cr (mm) Cr (mm) Supplementary information: Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	5.4.1.10.2	TABLE: Vicat so	ftening tempe	erature of the	nermoplas	tics		-6	N/A
supplementary information: 5.4.1.10.3 TABLE: Ball pressure test of thermoplastics N/A Allowed impression diameter (mm)	Penetration	(mm)			· JAKTE	5711	NA.	TESTIN	_
5.4.1.10.3 TABLE: Ball pressure test of thermoplastics Allowed impression diameter (mm)	Object/ Part	No./Material						T softening (°C	5)
5.4.1.10.3 TABLE: Ball pressure test of thermoplastics Allowed impression diameter (mm)	KTES	-STING	HUAKTES		STING		MAKTES		SING
Allowed impression diameter (mm)	supplementa	ary information:			HUAKT			AND HUDK TO	
Allowed impression diameter (mm)	G	-	TESTING				TESTING		
Object/Part No./Material Manufacturer/trademark Test temperature (°C) Impression diameter (m Supplementary information: 5.4.2.2, 5.4.2.4 and 5.4.3 Clearance (cl) and creepage distance (V) U r.m.s. Frequenc (V) y (kHz) ¹ cl (mm) (mm) ² cr (mm) (mm) Supplementary information: Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	5.4.1.10.3	TABLE: Ball pres	ssure test of t	hermoplas	tics	NG MAN	Par.	G	N/A
Supplementary information: 5.4.2.2, 5.4.2.4 and 5.4.3 Clearance (cl) and creepage distance (V) Ur.m.s. Frequenc (V)	Allowed imp	pression diameter (ı	mm)		. : HOWETEN			INK TEST	_
5.4.2.2, 5.4.2.4 and 5.4.3 Clearance (cl) and creepage	Object/Part No./Material Manufacturer/trademark			Test	Test temperature (°C) Impression diameter				
5.4.2.4 and 5.4.3 Clearance (cl) and creepage distance (cr) at/of/between: Up (V) U r.m.s. Frequenc (cl (mm)) Required (cl (mm)) cr (mm) (mm) Supplementary information: Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	Supplement	ary information:							TESTING
5.4.2.4 and 5.4.3 Clearance (cl) and creepage distance (cr) at/of/between: (V) Ur.m.s. Frequenc cl (mm) (V) V(V) V(V) V(V) Supplementary information: Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	HOW	NOTE !						A.	HOME
distance (cr) at/of/between: (V) (V) y (kHz) ¹ cl (mm) (mm) ² cr (mm) (mm) Supplementary information: Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	5.4.2.4 and		m Clearance	s/Creepage	distance			. 1	N/A
Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	Clearance (distance (cr	cl) and creepage) at/of/between:	•				ed cl (mm)	Required ³ cr (mm)	cr (mm)
Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group			M. HILLAND	G		ac O Ho	DK.	, NG	TING (
Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group	- JUAN TESTI	HUAY TES		WAKTESTA	HUAKTES			JAK TESTI	AK TES
Note 2: See table 5.4.2.4 if this is based on electric strength test Note 3: Provide Material Group		•	20 1411-		9		9		
Note 3: Provide Material Group	Note 1: Only Note 2: See	table 5.4.2.4 if this	s is based on	electric stre	ngth test				
5.4.2.3 TABLE: Minimum Clearances distances using required withstand voltage N/A				KTESTING	NY TE	STING		TESTING	AK TESTING
5.4.2.3 TABLE: Minimum Clearances distances using required withstand voltage N/A	No.	(a) 110°	(a) 100		1 10 Ho.		(a) HO	0	No.
	5.4.2.3	TABLE: Minimu	m Clearance	s distances	s using re	quired w	ithstand v	oltage	N/A

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage						
W. J.C.	Overvoltage Category	(OV):	NG HIAKTES		ESTING		
	Pollution Degree:	FUAR		(B) HI	by.		
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measur	ed cl (mm)		
NTEST	WAS TON THE STATE OF	K TESTING	211.	N TESTING	MAK TESTIN		
Suppleme	entary information:	9 m	60	Ho.	9		

5.4.2.4	5.4.2.4 TABLE: Clearances based on electric strength test				
Test voltag	e applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakd Yes /	-

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V TEST	NG LAKTEST	L. O	w 765	EC 62368-1	Jun (ii)		V TEST	ING		W.TESTING
Clause	(a)	Requireme	ent + Test	0		Resu	ult - Remark	-	(M)	Verdict
-6		- A	-16		-16					.vG
MAK TESTIN	MAY TES	P.L.	MAK TESTIN	11347	ESTI		"IN TESTI			LIAN TESTINA
Supplemer	ntary informatio	on:	9	0,,,		-	9,		(II)	
-ESTING			-csm/G				-ESTING			
5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Dis	stance throug	jh insulatio	n measureme	ents	0"	Mar.	6 H	JAY TE	N/A
Distance the insulation of		Peak vo		Frequency (kHz)	Mate	erial	Required (mm)			DTI (mm)
HUAKT	HUPA		HUAKTO	M HUAR			MUNK IL		W HU	25
		<u></u>	9							
Supplemen	ntary informatio	on:					•			
W TESTING	N. TE	51								TESTING
5.4.9	TABLE: Elec	ctric strength	1 tests						£	N/A
Test voltag	e applied betw	/een:		Voltage sha (AC, DC		Tes	st voltage (V	')		eakdown 'es / No
	MAKTED.	0,00		"JAKTES"		0			TAK TE	>**
40	0		G	0			-ojG	0		
Supplemer	ntary informatio	on:	100		- 0	UNDAK TES	(0)			
TESTI	NY TEST	14 D	TEST	IN TES	2/11 ₄₀		"TEST	ING	vi	K TESTING
5.5.2.2	TABLE: Sto	red discharge	e on capac	itors			(1) HONE	1	9"	N/A
Supply Vol	ltage (V), Hz	Test Location	Operating Condition (N, S)	Switch	(at		d Voltage seconds)	ES	Clas	sification
Mon	(1) HOLE	<u></u>	D HOW	(a) HOW		- (W How		6	W.
TING			-miG				TING			
K TES	- STMG	ALC: N	JAKTES	-SIMB		W alle	UAKTES		-65	TING
X-capacito	ntary informations installed for ng resistor ratir	testing are:	mus rest	ME HARRY	sme 🔵	HUAK TES	,mc	We We	JAK	TESTING (
Notes: A. Test Loc Phase to N	cation: Neutral; Phase	to Phase; Pha	ase to Earth	; and/or Neutr	ral to Ear	th				
250	ing condition al		normal opera	ation, or open	fuse); S	–Sinal	le fault cond	ition		

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ok TESTINE	AMERICANA COMPANY	IEC 62368-1	THE DA	NAK TESTING
Clause	Requirement + Test	0,	Result - Remark	Verdict

5.6.6.2	TABLE: Resistance	e of protective condu	ctors and termina	ations	N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
KTEST	STING	HIAKTES	TING	WAY TES	TING
	HUAKTE	6),	HUAKTES	0	HUAKTE
3	9	CTIVG W		-TING	9
Suppleme	entary information:	HILANGTON	in a	HUAKTO	

5.7.2.2, 5.7.4	TABLE: Earthed accessible co	nductive part		N/A
Supply vol	tage	:		_
Location		IEC 6	conditions specified in 6. 60990 or Fault Condition C 60990 clause 6.2.2.1 gh 6.2.2.8, except for 6.2	No (mA)
£.,	Jak Tita	IAN (E.S.)	1	IN TES. E
		(a) 11/10/11/11	3*	
		TING S	mic 6 How 4	TING STING
		AKTES!	5 ALLEY TE	HUAR
			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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or TESTING	TAK TESTINE WHEN	IEC 62368-1	STITE WITESTING	MAKTESTINE (I)
Clause	Requirement	+ Test	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
IX TES		-TING	Power (W)	:	TING	WAY TES	TING
		JAK TES	V _A (V)	:	HUNKTE	(a)	A HUAKTES
			I _A (A)	:	9	STING-	9

Supplementary Information:

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

6.2.3.1	Table: Determi	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
KTESTI					ß
	- WAKTES	(a)	WILLIAM TEE	0	UNAK TES

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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ok TESTINE	AMERICANA COMPANY	IEC 62368-1	THE DA	NAK TESTING
Clause	Requirement + Test	0,	Result - Remark	Verdict

6.2.3.2	Table: Det	ermination of Potentia	al Ignition Sour	ces (Resistive P	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
.G	0,	204	0,,,		·c 0 ***	
		LON TESTIN		OKTEST		

Supplementary Information:

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

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

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

8.5.5	TABLE: High Pressure Lamp		,	N/A
Description	on .	Values	Energy Source Classification	
Lamp type	e interest	HUANTES	_	
Manufacti	urer:	9	_	
Cat no			_	
Pressure	(cold) (MPa)	STNG	MS_	STING
Pressure	(operating) (MPa)	M HUAY II	MS_	JAKI
Operating	time (minutes)	9	_	
Explosion	method	mile inter	_	
Max partio	cle length escaping enclosure (mm).:	SHIAN TEST	MS_	
Max partio	cle length beyond 1 m (mm):	(ii)	MS_	
Overall re	sult	HUAKTES		
Suppleme	entary information:	HURKTESING	HUAN TESTING	K TESTIN W

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ok TESTINE	AMERICANA COMPANY	IEC 62368-1	THE DA	NAK TESTING
Clause	Requirement + Test	0,	Result - Remark	Verdict

B.2.5	TABLE: Inp	ut test					P
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5	1.96	2.0	Othor.	9.8		-STNG	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	-TING	O HILL		TING		N/A
Ambient temp	perature (°C)		MAK TES "	TANK T	:		HUAN	TES	E 141	_
Power source	for EUT: Manuf	acturer, model	/type, outpu	ıt rating	.:		(1)	4	2	_
Component N	No. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		nt, (A)	T-couple	Temp. (°C)	Obs	servation
				-	-	-	-	-	1	

Supplementary information:

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

B.4	TAE	BLE: Fault co	ondition tests			,sG	FIJAY	100			P
Ambient te	empera	ature (°C)	<u> </u>	100/25/100		EZIN	25°C	- 10	TESTINE		_
Power sou	ırce fo	r EUT: Manuf	acturer, mode	l/type, outp	ut rating	.:	See p	age 2		(10)	_
Componer	nt No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		se nt, (A)	T-couple	Temp (°C)	Ob	servation
C11		S-C	5VDC	10 mins		-	-			can't	appliance work, no ard, no en
D5		S-C	5VDC	10 mins		-	-			can't	appliance work, no ard, no en
U1BA	Ą	S-C	5VDC	10 mins		-	-			can't	appliance work, no ard, no en

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N TESTIVE	* TWATER BY	IEC 62368-1	STING O	jG	IN TESTING (II)
Clause	Requirement + Test	0,	Result - Remark	(iii)	Verdict

((23)	Battery	S-C	5VDC	10 mins		 		The appliance can't work, no harzard, no broken
10	Battery	Over- charge	5VDC	7 hours	-	 		Unit normal working, Record temperature: PCB: 36.3°C Battery surface: 33.8°C No damage, no hazard.
77	Battery	Over- discharge		7hours		 	1	Unit normal working, Record temperature: PCB: 34.4°C Battery surface: 32.9°C No damage, no hazard.

Supplementary information:

S-C=short cicuit

*) Fuse current is more than 2.1times fuse rating current.

Annex M	TABLE: Batt	eries						The same	Р
The tests o	f Annex M are	applicable	only when app	ropriate b	attery data	is not ava	ilable		
Is it possible	e to install the	battery in a	a reverse polar	ity position	1?		ESTIME N	0	P
	Non-re	echargeabl	e batteries		F	Rechargeal	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reversed	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. currer during norm condition			Municipal Park The	896mA	1000m A	823mA	1000m A	@ HUR	
Max. currer during fault condition		o <u>r</u> C	- HJAKTESTINS	2402m A	2500m A	2315m A	2500m A		AK TESTING

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		IEC 62368-1			
Clause	Requiremen	nt + Test	Result	- Remark	Verdict
Test results:	- A		-6		Verdict
- Chemical le	aks	JAK TESTING	No Chem	nical leaks	TEP TEP
- Explosion of	f the battery	0,	No Explo	sion of the battery	Р
- Emission of	flame or expulsion of molt	en metal		sion of flame or n of molten metal	P
- Electric stre	ngth tests of equipment aft	er completion of tests	No broke	n HUAK'	Р
Supplementa	ry information:	(G	WAY TEST	is a	•

	Table: Add batteries	itional safe	guards for eq	uipment co	ntaining seconda	ary lithium	O	Р
Battery		Test	conditions		Measurement	S	Ob	servation
No).			U	I (A)	Temp (C)		
1		Normal		3.7	0.896	32.1		OK
KTESTI 1		Single faul	t-SC	3.7	0.912	32.5		OK
1	N HUAK TES	Abnormal	9	3.7	2.402	33.8	MAKTE	OK
Supplementa	ry Informati	on:	TESTING.		HUAKTEST	Mg.		- 1
Battery identification	-	arging at Γ _{lowest} (°C)	Observ	ation	Charging at T _{highest} (°C)	Obs	servation	on
ESTING.		STING	TSTING		TESTING	TSTING		TSTING

Annex	TABLE: Circuits inter	nded for interc	onnection with	building wir	ing (LPS)	N/A	
Q.1	MAKTED.	A THE STREET STREET					
Note: Meas	sured UOC (V) with all loa	ad circuits disco	onnected:		16 📵 .		
Output	Components	U _{oc} (V)	I _{sc}	(A)	S	(VA)	
Circuit			Meas.	Limit	Meas.	Limit	
AND HUNE	(1) HOY	May Hope	(D) HOW		AD HIDE	S HUN	
Supplemer	ntary Information:		l		L	1	
100000	circuit, OC=Open circuit						

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Supplementary Information:

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ov TESTING	MAKTESTINE O HE	IEC 62368-1	THE OWN	ESTING	IN TESTING
Clause	Requirement + Test	9,,,	Result - Rema	rk	Verdict

T.2, T.3, T.4, T.5	ABLE:	Steady force	test	TESTING	TEST	P P
Part/Locatio	n	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top enclosu	re	Plastic	Min.1.5	100	5	No damaged
Side enclosu	re	Plastic	Min.1.5	100	5	No damaged
Bottom enclos	ure	Plastic	Min.1.5	100	5	No damaged
Supplementary	y inform	nation:	KTED	- Trans	THE HUAKTES	

T.6, T.9	TABLE	: Impact tests			1 m	N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)	Observation	
AK TESTING		NEST				AKTESTIN
bio	Se.	lo.				blo
TING						
Supplementa	ary inforn	nation:	T.C.	2097	70 T	B

T.7	TABLE: Drop tes	sts		W TESTING	Р
Part/Location	on Materia	Thickness (mm)	Drop Height (mm)	Observation	
Top enclosu	ire Plastic	Min.1.5	1000	No damaged	
Side enclosu	ure Plastic	Min.1.5	1000	No damaged	
Bottom enclosure	Plastic	Min.1.5	1000	No damaged	W TESTING

T.8	.8 TABLE: Stress relief test		est	V TESTING	AND HUAN.	ert State P
Part/Locati	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosur	е	See table 4.1.2	1.5	70	7h	No deformation
Supplementa	ary inf	formation:	O Maria	O HO	(a) "	D HO.

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N TESTIN	ATHERITATION OF THE	IEC 62368-1	STILLS WEST	NAKTESTING @
Clause	Requirement + Test	0	Result - Remark	Verdict

- Appendix 1: For requirements of European group differences.

	MENT TO TEST REPORT IEC 6 DIFFERENCES AND NATIONA		ICES
(Audio/video, information and con	nmunication technology equipmen	nt Part 1: Safe	ety requirements)
Differences according to	EN 62368-1:2014+A11:2017	HUAN	-E5TING
Attachment Form No	EU_GD_IEC62368_1B_II		HUAK
Attachment Originator:	Nemko AS		
Master Attachment	Date 2017-09-22		

	CENELEC C	COMMON MOD	DIFICATIO	NS (EN)				
CONTESTING		Clauses, subclauses, notes, tables, figures and annexes which are additional to those in EC 62368-1:2014 are prefixed "Z".						JAK TESTING
CONTENTS	Add the follo	wing annexes:					tear,	N/A
	Annex ZA (no Annex ZB (no Annex ZC (in Annex ZD (in	ormative)	with the Speci A-dev	ative references heir correspondir al national condi viations nd CENELEC co	ng European բ tions	oublications		P
- JUAN TESTING	Delete all the to the following		es in the refe	erence documen	t (IEC 62368-	1:2014) accordi	ng	N/A
	0.2.1	Note	1	Note 3	4.1.15	Note	9)	
	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	Non
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3		entil [©]
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	AK TE	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		TESTING (
MIDNE JE	For special r	national condition	ons, see Ar	nnex ZB.		O HUDEN	9 44	N/A
1		•		rical and electronic ve 2011/65/EU.	io	Diff		N/A

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W TESTIN	3 avent	51100 W	IEC 62368-1	WEST .	NG UNITESTING
Clause	0	Requirement + Test	0,,,	Result - Remark	Verdict
4.Z1		ollowing new subclause a		olo, do	N/A
	earth fault protective parts of th	t against excessive currents in circuits connected to devices shall be included be equipment or as parts of a parts of the content of the following states the following states are subject to the sub	an a.c. mains , d either as integral of the building	HUAKITES	What TES IN
	a) except necessary	n, subject to the following as detailed in b) and c), p to comply with the requi be included as parts of the	protective devices rements of B.3.1 and	d Williams	White Lie Was
	equipmen r.f.i. filter a	ponents in series with the t such as the supply cord and switch, short-circuit a may be provided by prot estallation;	l, appliance coupler, nd earth fault	N TEST	ING WHELING O
	permane dedicated building in protection	mitted for pluggable equintly connected equipmed overcurrent and short-cinstallation, provided that to, e.g. fuses or circuit breating the installation instruction.	ent, to rely on reuit protection in the he means of akers, is fully	;	JAK TESTING
	installation except the building in	is placed on protection in the installation instruction for pluggable equipmentallation shall be regard in accordance with the rattet.	ons shall so state, ent type A the ed as providing	THURK ESTING	O HUANTE, G
5.4.2.3.2.4	Add the fo	ollowing to the end of this	subclause:	WAY TEST	N/A
		rement for interconnectio in addition given in EN 50		9	
10.2.1		ollowing to ^{c)} and ^{d)} in table al requirements, see 10.5.1.	e 39:	NE TESTING	N/A



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			IEC 62368-1			
Clause	0,,,	Requirement + Test	0,,,,	Result - Remark	.	Verdict
10.5.1	Add the f	ollowing after the first parag	ıraph:			N/A
		compliance is checked by r following conditions:	measurement	HUAKTESTING		UAX TESTINO
	controls a object suc adjustmen reliable m radiation	n to the normal operating co djustable from the outside l ch as a tool or a coin, and th nts or presets which are not anner, are adjusted so as to whilst maintaining an intellig I of which the measuremen	by hand, by any nose internal t locked in a o give maximum gible picture for 1 h,	WHESTING AT THE TIME		TITALS.
	NOTE Z1 S adequate lo	oldered joints and paint lockings a cking.	re examples of	O HIAN		KTESTING (
	monitor w	rate is determined by mear with an effective area of 10 c he outer surface of the appa	m², at any point 10	Manage 1		
	conditions provided a	, the measurement shall be s causing an increase of the an intelligible picture is mair f which the measurement is	high-voltage, ntained for 1 h, at			UNYTESTING
		the dose-rate shall not exce f the background level.	eed 1 μSv/h taking			6
	NOTE Z2 T 1996.	hese values appear in Directive 96	6/29/Euratom of 13 May	0		
10.6.1	Add the for	ollowing paragraph to the e	nd of the	CONTESTING		N/A
		2011, 4.20 and the related to nent distances apply.	ests methods and	O FILE		OK TESTING
0.Z1	Add the f	ollowing new subclause after	er 10.6.5.	0	0	N/A
		n-ionizing radiation from age 0 to 300 GHz	radio frequencies			
	European July 1999	unt of non-ionizing radiation Council Recommendation on the limitation of exposural electromagnetic fields (0 Hz	1999/519/EC of 12 re of the general	WHAT TESTING		UAN TESTING
	taken into Varying E (up to 300	ional radiators, ICNIRP guid account for Limiting Expos lectric, Magnetic, and Elect 0 GHz). For hand-held and I attention is drawn to EN 503	ure to Time- romagnetic Fields body-mounted	M HANTESTING		TIME .
G.7.1	Add the format NOTE Z1 T	ollowing note: he harmonized code designations les are given in Annex ZD.	TESTING	Mudar Huay TESTIN	i HU	N/A



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			IEC 62368-1			
Clause	0,	Requirement + Test	0	Result - Remark	.	Verdict
Bibliography	Add the following	 ng standards:				N/A
	Add the following	ng notes for the stand	lards indicated:			
	IEC 60130-9	NOTE Harmoniz	ed as EN 60130-9.		455)	
	IEC 60269-2	NOTE Harmoniz	ed as HD 60269-2.			
	IEC 60309-1	NOTE Harmoniz	ed as EN 60309-1.			
	IEC 60364	NOTE some part	ts harmonized in H	D 384/HD 60364 series.	V TES	
	IEC 60601-2-4	NOTE Harmonize	ed as EN 60601-2-4	4.	AN PHILAD	
	IEC 60664-5	NOTE Harmonize	ed as EN 60664-5.			
	IEC 61032:199	7 NOTE Harmonize	ed as EN 61032:19	98 (not modified).		
	IEC 61508-1	NOTE Harmonize	ed as EN 61508-1.			
	IEC 61558-2-1	NOTE Harmonize	ed as EN 61558-2-1	1. HUAN	(1) HO	
	IEC 61558-2-4	NOTE Harmonize	ed as EN 61558-2-4	4.		
	IEC 61558-2-6	NOTE Harmonize	ed as EN 61558-2-6	6.		
	IEC 61643-1	NOTE Harmonize	ed as EN 61643-1.			
	IEC 61643-21	NOTE Harmonize	ed as EN 61643-21		25% V	
	IEC 61643-311		ed as EN 61643-31			
	IEC 61643-321		ed as EN 61643-32			
The Land	IEC 61643-331	NOTE Harmonize	ed as EN 61643-33	1.	<i>C</i>	, G
ZB	ANNEX ZB, SF	PECIAL NATIONAL	CONDITIONS (EN)		ALLIAN.	N/A
4.1.15	Denmark, Finla	and, Norway and Sw	eden	TESTING		N/A
	To the end of the	ne subclause the follow	wing is added:	FILAK .		
		ble equipment type		W TESTING		
		ther equipment or a n connection to reliable		MUNIC HUNCH	(a)	
		sors are connected be				
		ccessible parts, have				
	mains socket-c	nent shall be connecte	ed to an earthed	E TESTING		
	and the same	xt in the applicable co	untries shall he as	Max.	450-1	
	follows:	At iii tiio applicable oo	antinoo onan bo ao			
	In Denmark : "A	Apparatets stikprop sk	al tilsluttes en	TESTING		
		d jord som giver forbin	delse til	MI HUAN	W TES	
	stikproppens jo		o alsottine illa		FILIPATE IN	
	varustettuun pis	ite on liitettävä suojak storasiaan"	oskettiriilia	TESTING		
		pparatet må tilkoples jo	ordet stikkontakt"	HUAN L	40	
	65	paraten skall ansluta		WYTESTIN.	,	
4.7.3	United Kingdo	100 Agran		O Maria	0,,,,	N/A
	_	ne subclause the follo	wing is added:			
	I to the end of th	ie subclause life iolio.				
			•			
v TESTING	The torque test complying with	is performed using a BS 1363, and the plue relevant clauses of E	socket-outlet g part shall be	TESTNIC		

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	IEC 62368-	1 TESTING WETESTING	
Clause	Requirement + Test	Result - Remark Verd	lict
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking safeguard) for high touch c is required if the touch current exceeds the limit 3,5 mA a.c. or 10 mA d.c.		A
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is adde For separation of the telecommunication network	H0301	Α
	earth the following is applicable: If this insulation is solid, including insulation form part of a component, it shall at least consist of eit • two layers of thin sheet material, each of which pass the electric strength test below, or	ther	
	 one layer having a distance through insulation of least 0,4 mm, which shall pass the electric strength below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no dist through insulation requirement for the insulation consisting of an insulating compound completely the casing, so that clearances and creepage dist. 	tance of filling	
	do not exist, if the component passes the electric strength test in accordance with the compliance of below and in addition • passes the tests and inspection criteria of 5.4.8 an electric strength test of 1,5 kV multiplied by 1, electric strength test of 5.4.9 shall be performed to	clause 3 with 6 (the	
	1,5 kV), andis subject to routine testing for electric strength manufacturing, using a test voltage of 1,5kV.It is permitted to bridge this insulation with a capa	acitor	
	complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the foll conditions:	-	
	• the insulation requirements are satisfied by hav capacitor classified Y3 as defined by EN 60384-7 which in addition to the Y3 testing, is tested with impulse test of 2,5 kV defined in 5.4.11;	14,	
	• the additional testing shall be performed on all t specimens as described in EN 60384-14; the impulse test of 2,5 kV is to be performed beforendurance test in EN 60384-14, in the sequence tests as described in EN 60384-14.	ore the	



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			Page 56 of 63	Rep	ort No.: HK	2007151780-SR
AK TESTING	" IN TESTING	0	IEC 62368-1	W. (ii)	AK TESTING	MAK TESTING
Clause	Re	quirement + Te	st	Result - R	lemark	Verdict
5.5.2.1	Norway After the 3rd parage Due to the IT pow required to be rate voltage (230 V).	er system used	, capacitors are	ELLING WILLIAM	HTESTING	N/A
5.5.6	Finland, Norway To the end of the Resistors used as	subclause the for basic safeguates I pluggable 6	ord or bridging basic	HUAN TESTING	.6	N/A
5.6.1 METER 1	outlets can be pro than the rating of pluggable equipm the equipment. Justification:	ting installations tected with fuse the socket-outle ent type A shall	where the socket- es with higher rating ts the protection for be an integral part of		HUARTESTINA	N/A N/A
5.6.4.2.1	following is added – the protective of	A fuse. ed Kingdom r pluggable eq : current rating is	uipment type A, the staken to be 13 A, the ed in the mains plug	his	O TESTING	N/A
5.6.5.1	To the second par	ragraph the follo ductor sizes of fl nals for equipm and up to and in	owing is added: exible cords to be ent with a rated ncluding 13 A is:	2.14g	NATES THE	N/A
5.7.5	Denmark To the end of the The installation insequipment if the pexceeds the limits	struction shall be rotective cond	e affixed to the uctor current	W HI ANT TEE	TING (N/A



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N TESTIN	IEC 62368-1	WALESTING	AKTESTIV (B)
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden		N/A
	To the end of the subclause the following is added:	AK TESTINAL	N TESTINA
	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 HUMATESTING	TINE STATE
	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.	MAN TESTING	W.TESTING
	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:		- Die
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using		NAK TESTINA
	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)"	O HUANT	, G
	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.	MANAGES THE ON	NY TESTING
	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."	WANTESTING	WANTESTING.
	Translation to Swedish:	(I) ANALYTI	
	"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."	MAKTESTING ON	A TESTING
5760	''		NI/A
5.7.6.2	Denmark To the end of the subclause the following is added:	-6	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	O HUAK TESTING	MAKTESTINA
CTANO.	2700	2700	1

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	THE WHATE	Page 58 of 63	Report No.: HK	2007151780-SR	
NA TESTINES		IEC 62368-1	ON TESTING	ANTESTING MANTESTING	
Clause	Requirement +	Test	Result - Remark	Verdict	
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive of	currents and short-circuits	MANTESTING	N/A	
N. LESTING	in the primary circuit of direct according to Annexes B.3.1 ar using an external miniature cir with EN 60898-1, Type B, rate does not pass these tests, suit shall be included as an integra in equipment , until the require and B.4 are met	nd B.4 shall be conducted cuit breaker complying ed 32A. If the equipment table protective devices al part of the direct plug-	MANTESTING OF	UAKTE ING	
G.4.2	Denmark	WAY TEST	- WAY TESTIN	N/A	
	To the end of the subclause th	ne following is added:			
EMIG	Supply cords of single phase a current not exceeding 13 A sh plug according to DS 60884-2	all be provided with a		- TING	
	CLASS I EQUIPMENT provided we contacts or which are intended to protection against indirect contact wiring rules shall be provided with standard sheet DK 2-1a or DK 2-1	be used in locations where t is required according to the a plug in accordance with		CONTRESION OF	
	If a single-phase equipment havin exceeding 13 A or if a poly-phase a supply cord with a plug, this plug the standard sheets DK 6-1a in D 2.	e equipment is provided with g shall be in accordance with	O F	MAKE	
	Mains socket outlets intended Class II apparatus with a rated in accordance DS 60884-2-D1 DKA 1-4a.	d current of 2,5 A shall be	MANATESTING	White Leading C	
	Other current rating socket our compliance with Standard She 1c.	tlets shall be in eet DKA 1-3a or DKA 1-	NAV TESTINE	JAN TESTING	
	Mains socket-outlets with earth with DS 60884-2-D1:2011 Sta 1-1c, DK1-1d, DK 1-5a or DK	ndard Sheet DK 1-3a, DK	O FEE TIME		
	Justification: Heavy Current Regulations, S	ection 6c	O mm	DAKTE TOWN	
G.4.2	United Kingdom		TESTING	N/A	
	To the end of the subclause the	- VG	HUAN	TIME AND	
	The plug part of direct plug-in assessed to BS 1363: Part 1, 12.11, 12.12, 12.13, 12.16, an test of 12.17 is performed at n Where the metal earth pin is resolved.	12.1, 12.2, 12.3, 12.9, ad 12.17, except that the ot less than 125 °C. eplaced by an Insulated	O HUANTESTING	III SETESTING	
	Shutter Opening Device (ISOI clauses 22.2 and 23 also apply		AN TESTING	NY TESTING	

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200	3 THE WILL	Page 59 of 63	Report No.: HK200	-mc (m
NAK TESTIL	NAME TO STATE OF THE PARTY OF T	IEC 62368-1	WAY TESTIN	MAK TES.
Clause	Requirement + Tes	st ©	Result - Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following	a is added:	nne me	N/A
MAKTES	To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket		O MAKTES	MURKTES
	conforming to BS 1363 by means or cord shall be fitted with a 'stand accordance with the Plugs and So Regulations 1994, Statutory Instruunless exempted by those regulations	ard plug' in ockets etc (Safety) ment 1994 No. 1768	MUANTES	TE STING
THE STAN	NOTE "Standard plug" is defined in SI 1766 means an approved plug conforming to BS conversion plug.		G MINTES !	TESTING (I)
G.7.1	Ireland To the first paragraph the following	g is added:	O HILLIAM O	N/A
WERLE LINE	Apparatus which is fitted with a fle shall be provided with a plug in ac Statutory Instrument 525: 1997, "1 Conversion Adapters for Domestic 1997. S.I. 525 provides for the rec of another Member State which is	cordance with 3 A Plugs and c Use Regulations: ognition of a standar	rd	NUME TESTING
AK TESTING	relevant Irish Standard	equivalent to the		ß
G.7.2	Ireland and United Kingdom		(ii)	N/A
	To the first paragraph the following		-mig	
	A power supply cord with a conduct allowed for equipment which is rat to and including 13 A.	ctor of 1,25 mm² is ed over 10 A and up	MANAKTES . TESTING	KTESTING (
ZC	ANNEX ZC, NATIONAL DEVIATI	ONS (EN)	1 Hallon	N/A
10.5.2	Germany			N/A
	The following requirement applies:			
HUAN TESTRAL	For the operation of any cathode r the display of visual images opera acceleration voltage exceeding 40 required, or application of type app	ting at an kV, authorization is	HUAK "	MAN TESTINA
AN TESTINA	(Bauartzulassung) and marking. <i>Justification:</i>		M HIANTESTING	TE TING
	German ministerial decree against (Röntgenverordnung), in force sind implementing the European Direct 96/29/EURATOM.	ce 2002-07-01,	S MANAY TESTING	ans ann
MAY TESTIN	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Br D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	undesallee 100,	O HUNTESTING	AURTESIII P

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-Appendix 2: Photo document.



Photo 1: Overall view

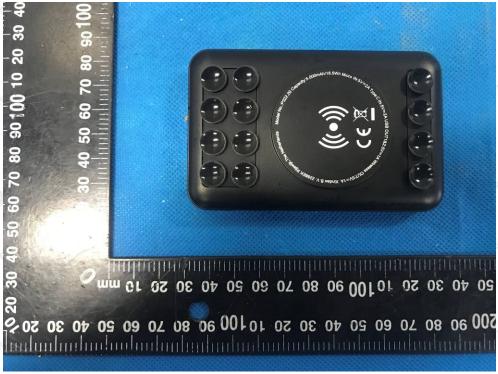


Photo 2: Overall view

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Photo 3: Side view



Photo 4: Side view

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Photo 5: Internal view



Photo 6: Battery view

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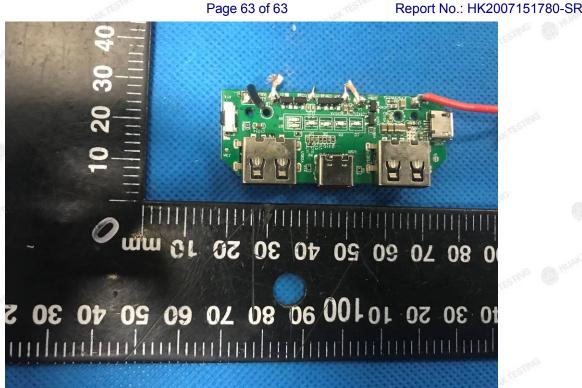


Photo 7: PCB view

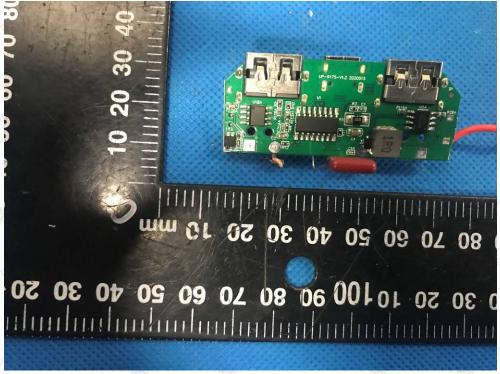


Photo 8: PCB view

End	of report
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