

TEST REPORT

Reference No. : WTX20X09067986S

Applicant: Lumi United Technology Co., Ltd.

Ave. Taoyuan Residential District, Nanshan District, Shenzhen. China

Manufacturer: Lumi United Technology Co., Ltd.

Address : 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian

Ave. Taoyuan Residential District, Nanshan District, Shenzhen. China

Product Hub M2

Model(s)..... : HM2-G01

Total pages...... : 60 pages

Standards: EN 62368-1:2014+A11:2017

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Test Report Form No.....: WTX_EN62368_1_2014B

Date of Receipt sample : 2020-09-21

Date of Test 2020-09-21 to 2020-09-29

Date of Issue : 2020-09-29

Test Result: Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

WALTEK Testing Group (Shenzhen) Co., Ltd.

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Tested by Compiled by:

Compiled by:

Seven Li / Testing Engineer

Ian Sun / Project Engineer

Harvid Wei Manager

Approved by:

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Test item description: Hub M2

Trademark Acord

Model and/or type reference HM2-G01

Rating(s)...... 5V==, 1A or 5V==, 2A

Remark:

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ⊠ No

If Yes, list the related test items and lab information: --

Test items: --

Lab information: --

Summary of testing:

Tests performed (name of test and test clause):

- EN 62368-1:2014+A11:2017

The submitted samples were found to comply with the requirements of above specification.

Testing location:

WALTEK Testing Group (Shenzhen) Co., Ltd. Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

Copy of marking plate:



Importer name: XXX Importer address: XXX

Manufacturer address: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave.Taoyuan Residential District, Nanshan District, Shenzhen.China

Remark:

Above label for reference only, final label marking on product shall contain the information at least. Name and address of the Importer AND Manufacturer must be affixed on the product when the product placed on the EU market.

Minimum height of CE mark is 5mm, minimum height of WEEE mark is 7mm.

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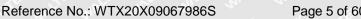
TEST ITEM PARTICULARS:	EX TEX TEX LIFE WITE WITE WITE
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☑ Children likely to be present
Supply Connection:	☐ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/ <u>-</u> % ☑ 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: not directly connected to the mains
Considered current rating of protective device as part of building or equipment installation	N/A; Installation location: □building; □equipment
Equipment mobility:	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not directly connected to the mains
Class of equipment:	☐ Class I ☐ 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:	50°C
IP protection class	☑ IPX0 □ IP
Power Systems	☐ TN ☐ TT ☐ IT — V _{L-L} ☐ not AC mains
Altitude during operation (m):	☑ 2000 m or less ☐ m
Altitude of test laboratory (m)	☑ 2000 m or less ☐ m
Mass of equipment (kg):	☑ 0.128kg
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POSSIBLE TEST CASE VERDICTS:	A LEK TEK TEK LITEK NITER MILITER
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	TEX STEE SLITE SUITE SUITE SUITE SUITE
Date of receipt of test item	2020-09-21
Date (s) of performance of tests:	2020-09-21 to 2020-09-29
- Let the life wife wife with while w	The second second
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☑ Not applicable
When differences exist; they shall be identified in the	ne General product information section.
Name and address of factory (ies):	Same as manufacturer
GENERAL PRODUCT INFORMATION:	The Mr. Mr. Mr. Mr.
Product Description 1. The product covered in this report is a Hub M2 for us technology equipment. 2. As the applicant declares, the Max. ambient temper	
Model Differences N/A	EX TEX TEX WHITEX WHITEX WHITEX WHITEX
Additional application considerations – (Consideration)	ations used to test a component or sub-assembly)

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

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

Electrically-caused injury (Clause 5):

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

Example: +5 V dc input, ES1

Source of electrical energy	Corresponding classification (ES)	
Input and internal circuits	ES1	
USB port	ES1 + At At At Att MAN	

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts):

Source of power or PIS Corresponding classification (PS)	
Input and internal circuits	PS1 Jun
USB port	PS1

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled componentGlycol

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

Mechanically-caused injury (Clause 8)

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

Example: Wall mount unitMS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Mass of the unit	MS1 W W
Edges and corners	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

Source of thermal energy	Corresponding classification (TS)
Accessible surfaces	TS1 W

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

TYPE of radiation	Corresponding classification (RS)		
LED indicator	RS1		

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ENERGY SOURCE DIAGRAM

Indicate which energy sources are included in the energy source diagram. Insert diagram below

⊠ ES

⊠ PS

 \boxtimes MS

 \boxtimes TS

 \boxtimes RS

Details see ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE





Clause	Possible Hazard				
5.1	Electrically-caused injury	Et TEX	LIER OLIER WAL	IEK NALIE V	
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person	ES1: Input and internal circuits	N/A	N/A	N/A	
Ordinary person	ES1: USB port	N/A	N/A	N/A	
6.1	Electrically-caused fire	LIE WALTE	Mer Mer M	20	
Material part	Energy Source	at at	Safeguards	EX CLIER	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Enclosure	PS1: Input and internal circuits	N/A	N/A until	N/A N	
Enclosure	PS1: USB port	N/A NALTE	N/A	N/A	
7.1	Injury caused by hazardous substances				
Body Part	Energy Source	Safeguards			
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1 10 10 10 10	Mechanically-caused injury	y tiek at	EL WILL WALL	mer me	
Body Part	Energy Source	Safeguards			
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person	MS1: Mass of the unit	N/A	N/A	N/A	
Ordinary person	MS1: Edges and corners	N/A	N/A	N/A	
9.1	Thermal Burn	me m		10.	
Body Part	Energy Source	All N	Safeguards	inlie, white	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary person	TS1: Accessible surfaces	N/A	N/A	N/A	
10.1	Radiation	* et	TEX ITEX ALT	ALTER N	
Body Part	Energy Source	MUL! N	Safeguards	70.	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
Ordinary person	RS1: LED indicator	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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A 16	t Tex Tex Street Wife	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS	Et TEX TEX STEE WITE	P
4.1.1	Acceptance of materials, components and subassemblies	t it let tex itex	P
4.1.2	Use of components	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. See also Annex G	P LIE WAL
4.1.3	Equipment design and construction	at let tex tex ster	P
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	- TEX TEX STEE STEE	NITE P J
4.4.4.2	Steady force tests	(See Annex T.4, T.5)	Р
4.4.4.3	Drop tests	(See Annex T.7)	P
4.4.4.4	Impact tests	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	INTER WALTER WALTER WALE	N/A
4.4.4.6	Glass Impact tests	No glass used	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard	: No such safeguard used	N/A
4.4.4.9	Accessibility and safeguard effectiveness	an in	N/A
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	NP.
4.6	Fixing of conductors	i chi i mai ma	N/A
4.6.1	Fix conductors not to defeat a safeguard	L A TEK TEK	N/A
4.6.2	10 N force test applied to	ar in in in.	N/A
4.7	Equipment for direct insertion into mains socket - outlets	Not such equipment	N/A
4.7.2	Mains plug part complies with the relevant standard	TEK STEK STEK MITEK MATE	N/A
4.7.3	Torque (Nm)	in the the second	N/A
4.8	Products containing coin/button cell batteries	No such battery used	N/A
4.8.2	Instructional safeguard	W W W	N/A
4.8.3	Battery Compartment Construction	aliek mile mail and	N/A
X NATEX	Means to reduce the possibility of children removing the battery	TEX STEX STEX WIFEX WI	EK WIT
4.8.4	Battery Compartment Mechanical Tests	w m m	N/A
4.8.5	Battery Accessibility	THE THE STEE WITH WITH	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
4.9	Likelihood of fire or shock due to entry of	all the text text treet as	N/A

5	ELECTRICALLY-CAUSED INJURY	min my my	Р
5.2.1	Electrical energy source classifications	(See appended table 5.2)	P
5.2.2	ES1, ES2 and ES3 limits	ES1 W	Р
5.2.2.2	Steady-state voltage and current	(See appended table 5.2.2.2)	Р
5.2.2.3	Capacitance limits	No such capacitor	N/A
5.2.2.4	Single pulse limits	No single pulse	N/A
5.2.2.5	Limits for repetitive pulses	No repetitive pulses	N/A
5.2.2.6	Ringing signals	No analogue telephone network ringing signals	N/A
5.2.2.7	Audio signals	No audio amplifiers	N/A
5.3	Protection against electrical energy sources	Mr. Mr. M.	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	MITER WHITER WHITE WHITE	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit can be accessed	MALTP
5.3.2.2	Contact requirements	at at at	N/A
M	a) Test with test probe from Annex V	Write Mulit Mulit Muli M	N/A
t TEX	b) Electric strength test potential (V)	at the test of	N/A
m.	c) Air gap (mm)	RITE WALL WALL WALL WALL	N/A
5.3.2.4	Terminals for connecting stripped wire	THE THE	N/A
5.4	Insulation materials and requirements	is we we will	N/A
5.4.1.2	Properties of insulating material	LE TEN LITER	N/A
5.4.1.3	Humidity conditioning	No such material used	N/A
5.4.1.4	Maximum operating temperature for insulating materials	WILLER WALLER MULTER WALLER ON	N/A
5.4.1.5	Pollution degree	at let tet tet it	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	it with white with the	N/A
5.4.1.5.3	Thermal cycling	er with whi wi	N/A
5.4.1.6	Insulation in transformers with varying dimensions	TER STEEL WILER	N/A
5.4.1.7	Insulation in circuits generating starting pulses	M. M. St.	N/A
5.4.1.8	Determination of working voltage	SITER MITE WHITE WALL WALL	N/A
5.4.1.9	Insulating surfaces		N/A



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* .E*	EN 62368	3-1	A COL
Clause	Requirement – Test	Result – Remark	Verdict
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	TEX WHITEX WHITEX WHITE	N/A
5.4.1.10.2	Vicat softening temperature	L A AT AT	N/A
5.4.1.10.3	Ball pressure	Write Aut Mut	N/A
5.4.2	Clearances	et et jet	N/A
5.4.2.2	Determining clearance using peak working voltage	mer mer mer m	N/A
5.4.2.3	Determining clearance using required withstand voltage	life will mil mi	N/A
nr. nr	a) a.c. mains transient voltage	ER WILL MILL MILL	Mur. Mur.
LEX ST	b) d.c. mains transient voltage	4 4 14	TEX TEX
Min	c) external circuit transient voltage	THE WILL MILL	mer And An
EX WALTER	d) transient voltage determined by measurement	STIFF WIFE ON	LIEK WY LEK WAL
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	The state out	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	at let telt	N/A
5.4.3	Creepage distances	The Maria Maria	N/A
5.4.3.1	General	EX TEX TEX	N/A
5.4.3.3	Material Group	The The My 1	
5.4.4	Solid insulation	TEX TEX LITER ON	N/A
5.4.4.2	Minimum distance through insulation	by My My My	N/A
5.4.4.3	Insulation compound forming solid insulation	TE MITE	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	An an	N/A
5.4.4.6.1	General requirements	NITER WITE WALL W	N/A
5.4.4.6.2	Separable thin sheet material	n a	N/A
11/1 1	Number of layers (pcs)	LIER WALTE WALTE WAL	N/A
5.4.4.6.3	Non-separable thin sheet material	a at at at	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	White Mill Mill	N/A
5.4.4.6.5	Mandrel test	NITER WALTER WALTER	N/A
5.4.4.7	Solid insulation in wound components	a v	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	WILL MILE MILE M	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General	TER OLIE WALL WALL	N/A



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+ LEX	EN 62368	3-1	at at A
Clause	Requirement – Test	Result – Remark	Verdict
5.4.5.2	Valtage come from	h, 2, ,	N/A
5.4.5.2	Voltage surge test	LEK TER WITE WALL	N/A
-1 ⁺	Insulation resistance (M Ω)		7 - X
5.4.6	Insulation of internal wire as part of supplementary safeguard	WHITE WHITE WALL	N/A
5.4.7	Tests for semiconductor components and for cemented joints	WILER MULTER WALTER W	N/A
5.4.8	Humidity conditioning	at at all a	N/A
14. 1	Relative humidity (%)	THE MULL AND AND	24 25
ALTEK IN	Temperature (°C)	at at the the	LIFE RITE
	Duration (h)	Mur. Mur. Mir.	71, 7,
5.4.9	Electric strength test	- TEX TEX LIER	N/A
5.4.9.1	Test procedure for a solid insulation type test	an ight in	N/A
5.4.9.2	Test procedure for routine tests	LIER SLIER IN	N/A
5.4.10	Protection against transient voltages between external circuit	at the it	N/A
5.4.10.1	Parts and circuits separated from external circuits	and the the	N/A
5.4.10.2	Test methods	A CIE WALLE WALL	w N/A
5.4.10.2.1	General	at at all	N/A
5.4.10.2.2	Impulse test	White Muli Mil A	N/A
5.4.10.2.3	Steady-state test	at at let o	N/A
5.4.11	Insulation between external circuits and earthed circuitry	We was any and	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	i wi him	N/A
5.4.11.2	Requirements		N/A
et let	Rated operating voltage U _{op} (V)	70, 70, 70	1 1 - A
wie	Nominal voltage U _{peak} (V)	NITER WITE WALTER WA	rr nv nv
TEX	Max increase due to variation U _{sp}		et at the
My V	Max increase due to ageing ΔU _{sa}	LIFE WALTER WALTER WALTER	m, m
LIEK N	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$	at the let	ITEN SITES
5.5	Components as safeguards	ic with mit my	14, 14,
5.5.1	General	LEK TEK TEK	N/A
5.5.2	Capacitors and RC units	Mury Mrs. Mrs. A	N/A
5.5.2.1	General requirement	LEK TEK JEK	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	he me me m	N/A
5.5.3	Transformers	The Write Mult Mill	N/A



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* (1)	EN 62368-1	the state of
Clause	Requirement – Test Result – Rem	ark Verdict
5.5.4	Optocouplers	N/A
5.5.5	Relays	N/A
5.5.6	Resistors	N/A
5.5.7	SPD's	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	N/A
5.5.7.2	Use of an SPD between mains and protective earth	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	N/A
5.6	Protective conductor	N/A
5.6.2	Requirement for protective conductors	N/A
5.6.2.1	General requirements	N/A
5.6.2.2	Colour of insulation	N/A
5.6.3	Requirement for protective earthing conductors	N/A
7/1	Protective earthing conductor size (mm²)	ing in in in
5.6.4	Requirement for protective bonding conductors	N/A
5.6.4.1	Protective bonding conductors	N/A
IER WILL	Protective bonding conductor size (mm²)	H SITER WITER WITE WAS
L A	Protective current rating (A)	7 × -
5.6.4.3	Current limiting and overcurrent protective devices	N/A
5.6.5	Terminals for protective conductors	N/A
5.6.5.1	Requirement	N/A
LIFE WAY	Conductor size (mm²), nominal thread diameter (mm).	N/A
5.6.5.2	Corrosion	N/A
5.6.6	Resistance of the protective system	N/A
5.6.6.1	Requirements	N/A
5.6.6.2	Test Method Resistance (Ω)	N/A
5.6.7	Reliable earthing	N/A
5.7	Prospective touch voltage, touch current and protective conductive	ctor current N/A
5.7.2	Measuring devices and networks	N/A
5.7.2.1	Measurement of touch current	N/A
5.7.2.2	Measurement of prospective touch voltage	N/A
5.7.3	Equipment set-up, supply connections and earth connections	N/A



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EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
بار	it let get get giv war	M. 24 A.	الایر اجر ک
WALTE	System of interconnected equipment (separate connections/single connection)	iek writer writer writ	MUTTE MUTT
	Multiple connections to mains (one connection at a time/simultaneous connections)	t wifet writet writet	WILLER WILLER
5.7.4	Earthed conductive accessible parts	The state of	N/A
5.7.5	Protective conductor current	White white white	N/A
t ITEX	Supply Voltage (V)	t at at	CET STEP SUS
711	Measured current (mA)	THE MULT MAIN MA	1112 11
ALTEK .	Instructional Safeguard	at at alt all	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	Must might might	N/A
5.7.6.1	Touch current from coaxial cables	The Maria Maria	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	DITER WITH W	N/A
5.7.7	Summation of touch currents from external circuits	TEX STEX SLT	- N/A
LIEX	a) Equipment with earthed external circuits Measured current (mA)	t ex lex lex	N/A
17 July 18	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	The same same	N/A

6	ELECTRICALLY- CAUSED FIRE	the set of the set	P.
6.2	Classification of power sources (PS) and potenti	al ignition sources (PIS)	Р
6.2.2	Power source circuit classifications	THE LET LET	Р
6.2.2.1	General	1 'UT. IN ANY	Р
6.2.2.2	Power measurement for worst-case load fault	: (See appended table 6.2.2)	LITE P
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	P
6.2.2.4	PS1	: (See appended table 6.2.2)	P
6.2.2.5	PS2	A ST ST ST	N/A
6.2.2.6	PS3	LIE WALL WALL WAS THE	N/A
6.2.3	Classification of potential ignition sources	at at alt alt alter	N/A
6.2.3.1	Arcing PIS	Mur Aur Au	N/A
6.2.3.2	Resistive PIS	LET TEX STEP STEP	N/A
6.3	Safeguards against fire under normal operating	and abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure	THE WITE WITE WALL WALL	N/A



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EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
6.4	Safeguards against fire under single fault condit	tions	P
6.4.1	Safeguard Method	Method of "control of fire spread" is used. Fire enclosure provided.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	White must meet me	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	White white white white w	N/A
6.4.3.1	General	TEX SLIER WILL SULLE SULLE	N/A
6.4.3.2	Supplementary Safeguards	h w w	N/A
mr. m	Special conditions if conductors on printed boards are opened or peeled	LEE WALTER MALLE WALTER WALTER	N/A
6.4.3.3	Single Fault Conditions	o tex iter sites with	N/A
EK NITEK	Special conditions for temperature limited by fuse	THE TEX LIES IN	N/A
6.4.4	Control of fire spread in PS1 circuits	Mr. Mr. Mr. M.	Р
6.4.5	Control of fire spread in PS2 circuits	TEK JEK LIFEK MIT	N/A
6.4.5.2	Supplementary safeguards		N/A
6.4.6	Control of fire spread in PS3 circuit	CA TEX LIEX OLIFE MITE	N/A
6.4.7	Separation of combustible materials from a PIS	at the the title	N/A
6.4.7.1	General	The And	N/A
6.4.7.2	Separation by distance	LEK TEK TEK STEK BY	N/A
6.4.7.3	Separation by a fire barrier	are me me me	N/A
6.4.8	Fire enclosures and fire barriers	TE NITE MITE	N/A
6.4.8.1	Fire enclosure and fire barrier material properties	TEL ITEL	N/A
6.4.8.2.1	Requirements for a fire barrier	No such barrier used	N/A
6.4.8.2.2	Requirements for a fire enclosure	ex ex tex trex strex o	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	and who are the	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	"TE WILL MIT MUST WAY WAY	N/A
6.4.8.3.2	Fire barrier dimensions	No fire barrier	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	And my my my	N/A
r. Mur	Needle Flame test	M WILL MILL MULL AND A	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	TER SITER STIER WITER WIN	N/A
TEX	Flammability tests for the bottom of a fire	The same of the same	N/A

enclosure



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* #	EN 62368	3-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict
	at let tell tell with my	n. n	
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	TEX WITEX WITER WITE	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	t with writer whiter	with wi N/A w
6.5	Internal and external wiring	The state of the s	N/A
6.5.1	Requirements	WILL WALL MALL A	N/A
6.5.2	Cross-sectional area (mm²)	1 1 1	(I) _
6.5.3	Requirements for interconnection to building wiring	Life mile wall was	N/A
6.6	Safeguards against fire due to connection to additional equipment	EX WHITE WHITE WHITE	N/A
ILTE WALL	External port limited to PS2 or complies with Clause Q.1	THE TEX MALTER WALTER	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	N/A
7.2	Reduction of exposure to hazardous substances	unit unit uN/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards (PPE)	N/A
LIER IN	Personal safeguards and instructions	et liet . —
7.5	Use of instructional safeguards and instructions	N/A
1111	Instructional safeguard (ISO 7010)	Mr. Mr. Lan
7.6	Batteries	N/A

8	MECHANICALLY-CAUSED INJURY	A TEL STEEL	P N
8.1	General	Mr. Mr. M. M.	Р
8.2	Mechanical energy source classifications	THE THE LITTER SLITTER AND	P
8.3	Safeguards against mechanical energy sources	me me me	N/A
8.4	Safeguards against parts with sharp edges and corners	Edges and corners are classed as MS1	Р
8.4.1	Safeguards	at let tex tex stex	N/A
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	INLIER WHITER WHITER WHITER	N/A
8.5.2	Instructional Safeguard	at let let let l	_
8.5.4	Special categories of equipment comprising moving parts	INCO MALL WALL WITH THE	N/A
8.5.4.1	Large data storage equipment	TE WITE WILL WILL WILL	N/A



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Clause	Paguiroment Toot	Popult Pamark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
8.5.4.2	Equipment having electromechanical device for destruction of media	TEX WITER WHITER WHITER WHI	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	t at alt alt are	N/A
8.5.4.2.2	Instructional safeguards against moving parts	Mr. Mr. Mr. M.	N/A
IER WITE	Instructional Safeguard	THE THE LIFE WITH	
8.5.4.2.3	Disconnection from the supply	me me m	N/A
8.5.4.2.4	Probe type and force (N)	TEX LIEX NITER MITE NO	N/A
8.5.5	High Pressure Lamps	A M. M.	N/A
8.5.5.1	Energy Source Classification	EX SIFER WITE WHITE WHITE	N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability	A TEN WILL WHILL WHILL	N/A
8.6.1	Product classification	MS1	N/A
m.	Instructional Safeguard	. Not required	_
8.6.2	Static stability	et tet tet	N/A
8.6.2.2	Static stability test	inter mur mur mi	N/A
NITER ON	Applied Force	the text ties with	_
8.6.2.3	Downward Force Test	i we me in the	N/A
8.6.3	Relocation stability test	TEX LIEX NITER MITE	N/A
L st	Unit configuration during 10° tilt	" My My My My	_
8.6.4	Glass slide test	ITEX SITEX MITER WAITE W	N/A
8.6.5	Horizontal force test (Applied Force)		N/A
Wr. M	Position of feet or movable parts	The wall was	_
8.7	Equipment mounted to wall or ceiling	Not mounted to wall, ceiling or other structure	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	THE TEX LIES NITES	N/A
8.7.2	Direction and applied force	Mr. Mr. M. M.	N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	in my my my	N/A
8.8.2	Applied Force	EX TEX WIFE WITE WITE	N/A
8.9	Wheels or casters attachment requirements	Not such equipment	N/A
8.9.1	Classification	Y LIEK OLIEK WALTER WALTER	N/A
8.9.2	Applied force	M. W. A.	_
8.10	Carts, stands and similar carriers	Not such equipment	N/A
8.10.1	General	the state of	N/A
8.10.2	Marking and instructions	TEN WITE WILL MILL MILL	N/A



N/A

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Telescoping or rod antennas.....

Button/Ball diameter (mm)

EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	The state of the s	M. M. A.		
anti.	Instructional Safeguard	TER TER TIEL WITE	JALIA -	
8.10.3	Cart, stand or carrier loading test and compliance	t let test itest	N/A	
	Applied force	Wir Mur Aur A	<i>a</i> –	
8.10.4	Cart, stand or carrier impact test	to the the street of	N/A	
8.10.5	Mechanical stability	Mr. Mr. M. M.	N/A	
MALTE	Applied horizontal force (N)	TEX STEEL STEEL WILL	muli —	
8.10.6	Thermoplastic temperature stability (°C)	i in in	N/A	
8.11	Mounting means for rack mounted equipment	Not such equipment	"N/A	
8.11.1	General	The state of the s	N/A	
8.11.2	Product Classification	E WALL WALL W	N/A	
8.11.3	Mechanical strength test, variable N		N/A	
8.11.4	Mechanical strength test 250N, including end	White me me	N/A	

9	THERMAL BURN INJURY	
9.2	Thermal energy source classifications	II P
9.3	Safeguard against thermal energy sources	PIET PIET
9.4	Requirements for safeguards	N/A
9.4.1	Equipment safeguard	N/A
9.4.2	Instructional safeguard	N/A

10	RADIATION		P
10.2	Radiation energy source classification		
10.2.1	General classification	LED indicator: Classed as RS1 (Exempt Group)	Y P
10.3	Protection against laser radiation	THE MULL MULL MUST MILL	N/A
NITER IN	Laser radiation that exists equipment:	at let let let liter liter	NITE
, ,	Normal, abnormal, single-fault	MUT. MUT. MU. M.	N/A
TET WITE	Instructional safeguard	TEK ITEK SITEK SLITER	
4 4	Tool	Mr. Mr. M. M.	_
10.4	Protection against visible, infrared, and UV radiation	MITER WHITE WHITE WHITE WH	Р
10.4.1	General	LEK TEK JEK JIEK OLIF	P
10.4.1.a)	RS3 for Ordinary and instructed persons	in in in	N/A

stops

8.12



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01	EN 6236		
Clause	Requirement – Test	Result – Remark	Verdict
10.4.1.b)	RS3 accessible to a skilled person	et tet tet sit	N/A
sir si	Personal safeguard (PPE) instructional safeguard	The me we the	TEX STEE
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1	Must mus must	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions	MILE WALTER WALTER	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	STEEL SLIEN WITER MIN	N/A
10.4.1.f)	UV attenuation	70, 7	N/A
10.4.1.g)	Materials resistant to degradation UV	EX NIET MILE WAITE	N/A
10.4.1.h)	Enclosure containment of optical radiation	The state of	N/A
10.4.1.i)	Exempt Group under normal operating conditions	Mr. E. Millie Mill	N/A
10.4.2	Instructional safeguard	ALTER MITE AN	N/A
10.5	Protection against x-radiation	20, 20,	N/A
10.5.1	X- radiation energy source that exists equipment	INLIER WALLE WALL	N/A
LIE WAL	Normal, abnormal, single fault conditions	H TEX TEX STEE	N/A
.L .	Equipment safeguards	The The	N/A
WILL	Instructional safeguard for skilled person	TEL STEE STEEL	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	et let let	TEK JALI EK JALIF
7.	Abnormal and single-fault condition	Vr. Mr. Mr. M.	N/A
WILLE W	Maximum radiation (pA/kg)	TIE CLITE	N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification	Mr. M. M.	N/A
MULL	Acoustic output, dB(A)	LIEK OLIEK WITER ON	N/A
,ex	Output voltage, unweightedr.m.s	We were	N/A
10.6.4	Protection of persons	LIEX WITE WALL WAL	N/A
All .	Instructional safeguards		N/A
ur in	Equipment safeguard prevent ordinary person to RS2	ex uniter unite white	me -
MULL	Means to actively inform user of increase sound pressure	MILIER WALTER WALTER	mir v —
WALTER	Equipment safeguard prevent ordinary person to RS2	DITER OWIER MATER ON	IIEK WAT -
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	TEX TEX LIFE LIFE	N/A



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EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
10.6.5.1	Corded passive listening devices with analog input	itek multer multer and	N/A
NLTEK WAL	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	The street white white	_
10.6.5.2	Corded listening devices with digital input	The second second	∠ N/A
MU	Maximum dB(A)	White White White White	41 -
10.6.5.3	Cordless listening device	t at at at	N/A
m.	Maximum dB(A)	LIFE WALTE WALT WATER W	_

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions	The terminal Marie Marie .	P
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	IEK P
MLIEK	Audio Amplifiers and equipment with audio amplifiers	No audio amplifiers	N/A
B.2.3	Supply voltage and tolerances		Р
B.2.5	Input test	(See appended table B.2.5)	MILL P
B.3	Simulated abnormal operating conditions	The state of	P
B.3.1	General requirements	. TEX SLIER WIFE WALLE	P.I
B.3.2	Covering of ventilation openings	M M T	N/A
B.3.3	D.C. mains polarity test	LIFE OLIFE WALLE WALLE WAS	N/A
B.3.4	Setting of voltage selector	No such voltage selector	N/A
B.3.5	Maximum load at output terminals	of the main was	N/A
B.3.6	Reverse battery polarity	No batteries used	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	me we will me	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3)	Р
B.4	Simulated single fault conditions	TEK JEK WIEK WILL WILL	NP
B.4.2	Temperature controlling device open or short-circuited	No such controlling device	N/A
B.4.3	Motor tests	No motors used	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	WHITE WHITE WHITE WHITE	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р



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	EN 62368	3-1	
Clause	Requirement – Test	Result – Remark	Verdict
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	O P
B.4.4.3	Short circuit of functional insulation on coated printed boards	* NIFE WITE WAITER WALK	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	TEL P
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	NI P
B.4.7	Continuous operation of components	The Mary Mary Mary Mary	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	(See appended table B.4)	P
B.4.9	Battery charging under single fault conditions	. No batteries used	N/A
A 10	Internation of the state of the	The Mark My My	14 21/0
C	UV RADIATION	ALTER RITER OF LIFE	N/A
C.1	Protection of materials in equipment from UV radiation	THE THE TEXT	N/A
C.1.2	Requirements	during any and any	N/A
C.1.3	Test method	a at at let it	N/A
C.2	UV light conditioning test	is my my my	N/A
C.2.1	Test apparatus	et let jet liet	N/A
C.2.2	Mounting of test samples	Will Mr. Mur. Mur.	N/A
C.2.3	Carbon-arc light-exposure apparatus	et let tet tet tet	N/A
C.2.4	Xenon-arc light exposure apparatus	ver my my m	N/A
D	TEST GENERATORS	TE MILITE VIA	NI/A
D.1			N/A
D.1 D.2	Impulse test generators Antenna interface test generator	Mr In In Mr	N/A N/A
D.2 D.3	Antenna interface test generator Electronic pulse generator	at at all all	N/A N/A
D.5 (1)	Lieutionio puise generator	Merr Augh Augh Mar	IV/A
Enrice	TEST CONDITIONS FOR EQUIPMENT CONT	AINING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	The second second	N/A
Mr. M	Audio signal voltage (V)	EX WILL MILL MULL AND	nu _
TEX S	Rated load impedance (Ω)	The state of the s	JEX
E.2	Audio amplifier abnormal operating conditions	WILL WILL MUST MUST	N/A

F VIII	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS	
F.1	General requirements	<i>n</i> _u b <i>n</i>



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EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
WILEK W	Instructions – Language	. English	ie unite	
2	Letter symbols and graphical symbols	S No. My My My	Р	
F.2.1	Letter symbols according to IEC60027-1	* TEK STEE WITE SMITE	JILL P	
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	the tex tex start	TELE P	
3	Equipment markings	Mr. Mr. Mr. Mr.	Р	
F.3.1	Equipment marking locations	TEX TEX STEX OUTER SI	U NP	
3.2	Equipment identification markings	The My My	P	
3.2.1	Manufacturer identification	(See copy of marking plate)	nn P	
3.2.2	Model identification	(See copy of marking plate)	Р	
3.3	Equipment rating markings	- TEX STEEL WITE WAITE	JAN PA	
F.3.3.1	Equipment with direct connection to mains	The sale of the	N/A	
3.3.2	Equipment without direct connection to mains	white white white	W P	
3.3.3	Nature of supply voltage	. (See copy of marking plate)	P.	
F.3.3.4	Rated voltage	. (See copy of marking plate)	√ P	
3.3.4	Rated frequency	the state of	N/A	
F.3.3.6	Rated current or rated power	(See copy of marking plate)	n P	
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection	N/A	
F.3.4	Voltage setting device	No such device	N/A	
F.3.5	Terminals and operating devices	at let tet tex	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlets or socket-outlets	N/A	
F.3.5.2	Switch position identification marking	. No switches	N/A	
F.3.5.3	Replacement fuse identification and rating markings	TEX MATE	N/A	
F.3.5.4	Replacement battery identification marking	Mr. M. T. St.	N/A	
F.3.5.5	Terminal marking location	LIEF RIFE WALTER WALTER	N/A	
F.3.6	Equipment markings related to equipment classification	TEX SEEK SLIEK MITER WA	N/A	
3.6.1	Class I Equipment	Class III	N/A	
F.3.6.1.1	Protective earthing conductor terminal	EX LIEK OLIEK WITER WILL	N/A	
3.6.1.2	Neutral conductor terminal	M. M. P.	N/A	
F.3.6.1.3	Protective bonding conductor terminals	NITER WITE WALTE WALTE	N/A	
F.3.6.2	Class II equipment (IEC60417-5172)	Class III	N/A	
F.3.6.2.1	Class II equipment with or without functional earth	NITE WHITE WHITE WALL W	N/A	
F.3.6.2.2	Class II equipment with functional earth terminal marking	TEX NOTES WHITE WAITE WA	N/A	



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				(1) (2)
* (5*	TEX TEX STEE STEE	EN 62368	·1	at let let
Clause	Requirement – Test	A TEX	Result – Remark	Verdict
	L A A A	11 11	11 21	4 4

F.3.7	Equipment IP rating marking	IPX0, no marking is needed	"Wr.
F.3.8	External power supply output marking	The The Angelow	N/A
F.3.9	Durability, legibility and permanence of marking	White white white white	P.
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	TE PAN MULTER MULTER
F.4	Instructions	A TER OLIFE MALL MALL .	Ps
AVILLA MULTER	a) Equipment for use in locations where children not likely to be present - marking	iter stier writer	N/A
	b) Instructions given for installation or initial use	The sure sure	Р
WALLE	c) Equipment intended to be fastened in place	LIFE OLIFE MITE WALT	N/A
ALTEK IN	d) Equipment intended for use only in restricted access area	the set that start	N/A
TEX WALT	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	Lifet nutret united whitek	N/A
t let	f) Protective earthing employed as safeguard	M. M.	N/A
MUL	g) Protective earthing conductor current exceeding ES2 limits	NITER WHITE WAITE WHITE WAS	N/A
WITE	h) Symbols used on equipment	TEN MITTER MAILE	M P
LIFEK IN	i) Permanently connected equipment not provided with all-pole mains switch	THE THE	N/A
EX JE	j) Replaceable components or modules providing safeguard function	The the tex	N/A
F.5	Instructional safeguards	WILL MULL MULL MULL MILL	N/A
WALTER	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	LIER WALTER WALTER WALTER	N/A

G	COMPONENTS		N/A
G.1	Switches		N/A
G.1.1	General requirements	No such component	N/A
G.1.2	Ratings, endurance, spacing, maximum load	TEX STEE MITE MITE	N/A
G.2	Relays	The Thirty	N/A
G.2.1	General requirements	No such component	N/A



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+ (6)	EN 62368		
Clause	Requirement – Test	Result – Remark	Verdict
G.2.2	Overload test	EX TEX TEX	N/A
G.2.3	.2.3 Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2	t tel tell atter	N/A
G.3	Protection Devices	24 24 24	N/A
G.3.1	Thermal cut-offs	No such component	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	TIET MILIER MILIER MINITE	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	EX STEX MITER WAITER	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	TEK TEK NITEK N	N/A
G.3.2	Thermal links	The last the last	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	TEX TEX STER	N/A
	Aging hours (H)	in the su	
nlie whi	Single Fault Condition	IN THE LITER PLITER	Inlie Malie
A	Test Voltage (V) and Insulation Resistance (Ω)	14, 24,	* #
G.3.3	PTC Thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	20 20 20	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	TE RETER	N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors	Harry Market No. 10 Market No.	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	NIEK MIEK WALL WAL	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	TER STER STER WITH	N/A
G.5	Wound Components	L. M. M. M.	N/A
G.5.1	Wire insulation in wound components	ex liet niter inter	N/A
G.5.1.2 a)	ta) Two wires in contact inside wound component, angle between 45° and 90°		N/A
G.5.1.2 b)	Construction subject to routine testing	Mur. Mrs. Mr. M.	N/A
G.5.2	Endurance test on wound components	TEX TEX TIES WIT	N/A
G.5.2.1	General test requirements	We My My 201	N/A
G.5.2.2	Heat run test	LET TEX JET JET	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
0.4400	the state of the s	W W THOMAS	rordio
WITE. W	Time (s)	et let let liet liter	WILE WILL
	Temperature (°C)	Mr. Mr. M.	*
G.5.2.3	Wound Components supplied by mains	t if aliet alies	N/A
G.5.3	Transformers	Mr. 24, 21, 2	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	No such component	N/A
MALTER	Position	TEX TEX STEX WITE	MILE WALL
z.t	Method of protection	2 My 211 21	A
G.5.3.2	Insulation	EX LIEX OLIER WITE	N/A
at a	Protection from displacement of windings	We all the	at all
G.5.3.3	Overload test	TEN MILE WALLE WA	N/A
G.5.3.3.1	Test conditions	3 / 4 / 1	ot N/A
G.5.3.3.2	Winding Temperatures testing in the unit	WALLE WALL MAL	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	SLIER SLIER MUTER	N/A
G.5.4	Motors	0 20	N/A
G.5.4.1	General requirements	No such component	N/A
CEX CE	Position	t at	LEK LEK-
G.5.4.2	Test conditions	WILL MULL MULL AND	N/A
G.5.4.3	Running overload test	at the filt of	N/A
G.5.4.4	Locked-rotor overload test	WILL MULL MULL MULL	N/A
LIEK II	Test duration (days)	TEV TEX	JE NITE
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A
G.5.4.5.2	Tested in the unit	The Man The Man	N/A
EX JEX	Electric strength test (V)	at at alt a	Et JEX-
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	mail mail mar me	N/A
MUL 1	Electric strength test (V)	LIER WITE WALTE WALTE	MUT. MUT.
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	at the lifet suites	N/A
G.5.4.6.2	Tested in the unit	m. m. 2.	N/A
MULL	Maximum Temperature	ALTER MITER MALTER MA	N/A
H JEH	Electric strength test (V)	24 24 24 24 24 24 24 24 24 24 24 24 24 2	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	Will Mile Mile Aut	N/A
all of	Electric strength test (V)	at let tet ite	N/A



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* (6	EN 62368		
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.7	Motors with capacitors	at let let let	N/A
G.5.4.8	Three-phase motors	the sure of the su	N/A
G.5.4.9	Series motors	t tet itet itet nit	N/A
<u> </u>	Operating voltage	My My My	
G.6	Wire Insulation	ITEX SITES ONLY WALLES	N/A
G.6.1	General	My My My	N/A
G.6.2	Solvent-based enamel wiring insulation	LIER OLIER MALIER MALIER W	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	No such mains supply cords	N/A
TEX JI	Type	1 2 A A A	t JEE
'n'	Rated current (A)	Mr. C. Maria Maria Maria	10 -1
EX SITES	Cross-sectional area (mm²), (AWG)		NIEK W
G.7.2	Compliance and test method	Mury Mr. Mur.	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	ALIEK WALTER WALTER W	N/A
G.7.3.2	Cord strain relief	a st set set s	N/A
G.7.3.2.1	Requirements	The way we want	N/A
TEK OLIE	Strain relief test force (N)	et tet tet with	LIER
G.7.3.2.2	Strain relief mechanism failure	any any any	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	TEX TEX STEX SLIFE.	Will Will
G.7.3.2.4	Strain relief comprised of polymeric material	VE MU MI MI	N/A
G.7.4	Cord Entry	C III MITE MY	N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements	the main	N/A
G.7.5.2	Mass (g)	The state of	LEX-
MUS	Diameter (m)	CLIEB MIE WALL WALL	m m
- TEX	Temperature (°C)	and the set left	18 J
G.7.6	Supply wiring space	etter white white white w	N/A
G.7.6.2	Stranded wire	e st set set s	N/A
G.7.6.2.1	Test with 8 mm strand	Write Mr. Mr. Mr.	N/A
G.8	Varistors	et et tet ster	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguard against shock	ex tex tex tex	N/A
G.8.3	Safeguard against fire	ner mer any	N/A
G.8.3.2	Varistor overload test	ex Jex Jex Aller	N/A
G.8.3.3	Temporary overvoltage	Mr. M. M.	N/A



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			11. 12.
* 6*	TEX TEX STER WIT	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

G.9	Integrated Circuit (IC) Current Limiters	TEX TEX TEX STEE	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No such component	N/A
G.9.1 b)	Limiters do not have manual operator or reset	t tex lies sites	N/A
G.9.1 c)	Supply source does not exceed 250 VA	Mr. My My	x 11-
G.9.1 d)	IC limiter output current (max. 5A)	LIER ALTER MITE MALI	11 LT 41
G.9.1 e)	Manufacturers' defined drift	We all the state of	* * -
G.9.2	Test Program 1	LIEF MITE WALTER WALTER	N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3	er unite white whi v	N/A
G.10	Resistors	at at all .	N/A
G.10.1	General requirements	No such component	N/A
G.10.2	Resistor test	LET LET LE	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	Whit whit will have	N/A
G.10.3.1	General requirements	A The Second	N/A
G.10.3.2	Voltage surge test	y liet alier ancie an	N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units	ALTER WITE WALTE WAL	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	ALTER WALTE WALL WALL	N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	It with the same	N/A
LIEK WIL	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	No such component	N/A
MALT	Type test voltage Vini	TEX TEX STEEL WIT	in it was
· ot	Routine test voltage, Vini,b	m m	J+ -<
G.13	Printed boards	LIET WILL WALLE	N/A
G.13.1	General requirements	14 14 14 14	N/A
G.13.2	Uncoated printed boards	EX INLIER MALTE MALLE VI	N/A
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface	White while when whi	N/A
MUL	Compliance with cemented joint requirements (Specify construction)	NITER WALTER WALTER WALTER	mi an i
G.13.5	Insulation between conductors on different surfaces	TEX WITER WAITER WAITER	N/A



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			W D
* 64	- TEX LIEK NITER MITE	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

4	it let the the other of the one	1 1 1
WILLE M	Distance through insulation	N/A
ALTEX WALL	Number of insulation layers (pcs) :	UNLIEK WALLEK WALLES
G.13.6	Tests on coated printed boards	N/A
G.13.6.1	Sample preparation and preliminary inspection	N/A
G.13.6.2a)	Thermal conditioning	N/A
G.13.6.2b)	Electric strength test	N/A
G.13.6.2c)	Abrasion resistance test	N/A
G.14	Coating on components terminals	N/A
G.14.1	Requirements	N/A
G.15	Liquid filled components	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	N/A
3.15.3.2	Creep resistance test	N/A
G.15.3.3	Tubing and fittings compatibility test	N/A
G.15.3.4	Vibration test	N/A
G.15.3.5	Thermal cycling test	N/A
G.15.3.6	Force test	N/A
G.15.4	Compliance	N/A
G.16	IC including capacitor discharge function (ICX)	The MANA
a) et unité	Humidity treatment in accordance with sc5.4.8 – 120 hours	TEL MITEL NIA
o) witer	Impulse test using circuit 2 with Uc = to transient voltage	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	N/A
C2)	Test voltage	Mr. Mr. An.
O1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	N/A
02)	Capacitance	VILLE NUTLE AVIL - N
D3)	Resistance	1 1 1 -1

H	CRITERIA FOR TELEPHONE RINGING SIGNALS	
H.1	General	N/A



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EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
	The set of the second second	M. M. A.	± 20
H.2	Method A	THE THE STEE STEE	N/A
H.3	Method B	m, m, m,	N/A
H.3.1	Ringing signal	THE TEX STEEL WITER	N/A
H.3.1.1	Frequency (Hz)	The Maria And And	at at
H.3.1.2	Voltage (V)	at aller while while w	لارزر الماري عمال
H.3.1.3	Cadence; time (s) and voltage (V)		at at a
H.3.1.4	Single fault current (mA):	LIER WALL WALL WALL	Mr. Mr.
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	unit water water water	N/A
H.3.2.2	Tripping device	TE OFTER NITE WITE	N/A
H.3.2.3	Monitoring voltage (V)	- Y	at at -

JUNLIEK	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	
int .	General requirements	N/A

K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism	ALTER WALTER WALTER WALTER ON	N/A
K.3	Inadvertent change of operating mode	TE STEEL STEEL	N/A
K.4	Interlock safeguard override	1. 4. 1. 1.	N/A
K.5	Fail-safe	E TEL MITE	N/A
	Compliance	" Mr. M. M.	N/A
K.6	Mechanically operated safety interlocks	TEX LIER OLIER WITER	N/A
K.6.1	Endurance requirement	Mr. Mr. Mr.	N/A
K.6.2	Compliance and Test method	TEX STEEL WITE MUTE WAY	N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	THE WALL WHILE WHILE WHILE WHILE	N/A
K.7.2	Overload test, Current (A)	They we we will	N/A
K.7.3	Endurance test	et tet tet tet	N/A
K.7.4	Electric strength test	" Lin My My My My	N/A



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			11. 12.
* 6*	TEX TEX STER WIT	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

Latie	DISCONNECT DEVICES		N/A
L.1	General requirements	Not connected to Mains supply	N/A
L.2	Permanently connected equipment	Text ITEX ALTER OUTER MILITE	N/A
L.3	Parts that remain energized	me me m	N/A
L.4	Single phase equipment	TEX STEE SUITE MITE MITE SHITE	N/A
L.5	Three-phase equipment	n m	N/A
L.6	Switches as disconnect devices	JEK LIER WITE WITE WILL WAS	N/A
L.7_	Plugs as disconnect devices	St. St. At At At	N/A
L.8	Multiple power sources	Little mile with while	N/A

M	EQUIPMENT CONTAINING BATTERIES AND	THEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	No batteries used	N/A
M.2	Safety of batteries and their cells	Wer Mer My My	N/A
M.2.1	Requirements	et tet tet it	N/A
M.2.2	Compliance and test method (identify method)	are and any and	N/A
M.3	Protection circuits	the tex ster ster street	N/A
M.3.1	Requirements	in the things	N/A
M.3.2	Tests	TEX TEX STEE WITE OF	N/A
L A	- Overcharging of a rechargeable battery	The Mr. M.	N/A
MULT	- Unintentional charging of a non-rechargeable battery	NITER WHITER WHITER WHITE WHI	N/A
WITER OF	- Reverse charging of a rechargeable battery	TE LIE OLIE	N/A
20.	- Excessive discharging rate for any battery	, which is the same of the sam	N/A
M.3.3	Compliance	TEN MITE	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery	who will the test test	N/A
M.4.1	General	MULL MULL MULL MULL MIN	N/A
M.4.2	Charging safeguards	at at att att	N/A
M.4.2.1	Charging operating limits	in we we will	N/A
M.4.2.2a)	Charging voltage, current and temperature	et tet tet tilt still still	MITE
M.4.2.2 b)	Single faults in charging circuitry	my my my	`.E
M.4.3	Fire Enclosure	TEX LIER OLIVER ONLY	N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	of the text of	N/A
M.4.4.2	Preparation	WE AVE AVE AVE AVE	N/A
M.4.4.3	Drop and charge/discharge function tests	tet tet tet stet stet wife	N/A
4	Drop	, we my my	N/A



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+ 164	EN 6236	8-1	at at a
Clause	Requirement – Test	Result – Remark	Verdict
TEX.	Charge		N/A
21/2 N	Discharge	THE WILL WALL	N/A
M.4.4.4	Charge-discharge cycle test	t at all the	N/A
M.4.4.5	Result of charge-discharge cycle test	Mult Mil Mar	N/A
M.5	Risk of burn due to short circuit during carrying	WHITEK WHITEK WHITEK W	N/A
M.5.1	Requirement	et let let i	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)	HELL MUST AUGE MAN	N/A
M.6	Prevention of short circuits and protection from other effects of electric current	ist whitek whitek white	N/A
M.6.1	Short circuits	et let let	N/A
M.6.1.1	General requirements	The sale was	N/A
M.6.1.2	Test method to simulate an internal fault	TEX TEX	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	The support	N/A
M.6.2	Leakage current (mA)	The Maria Maria	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	Exter incress married	united uniN/A
M.7.1	Ventilation preventing explosive gas concentration	TEX STEX STEX	N/A
M.7.2	Compliance and test method	Mr. Mr. Mr.	N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	NITER WHITE WHITE WAS	N/A
M.8.1	General requirements	TEVALTE	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 Vz (m³/s)	211 211 111	
M.8.2.3	Correction factors	. LIEK WITEK WITER W	rie Aurie Au
M.8.2.4	Calculation of distance d (mm)	M. M. A.	at at a
M.9	Preventing electrolyte spillage	LIEF MITE MALTER WAL	N/A
M.9.1	Protection from electrolyte spillage	1 1 1	N/A
M.9.2	Tray for preventing electrolyte spillage	ER WILL MULL MULL	N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	MALIER MALIER MALIER	united plain N/A

1	N	ELECTROCHEMICAL POTENTIALS	N/A
	While Wh	Metal(s) used	Will M



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EN 62368-1			at at all
Clause	Requirement – Test	Result – Remark	Verdict

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
INLIE WALL	Figures O.1 to O.20 of this Annex applied	writ — wri

P wer	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS	N/A
P.1	General requirements	N/A
P.2.2	Safeguards against entry of foreign object	N/A
Write W	Location and Dimensions (mm)	WILL (
P.2.3	Safeguard against the consequences of entry of foreign object	N/A
P.2.3.1	Safeguards against the entry of a foreign object	N/A
n,	Openings in transportable equipment	N/A
WALTER	Transportable equipment with metalized plastic parts	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)	N/A
P.3	Safeguards against spillage of internal liquids	N/A
P.3.1	General requirements	N/A
P.3.2	Determination of spillage consequences	N/A
P.3.3	Spillage safeguards	N/A
P.3.4	Safeguards effectiveness	N/A
P.4	Metallized coatings and adhesive securing parts	N/A
P.4.2 a)	Conditioning testing	N/A
1/1	Tc (°C)	111
LIEK	Tr (°C)	L CUTER
711	Ta (°C)	44
P.4.2 b)	Abrasion testing	N/A
P.4.2 c)	Mechanical strength testing	N/A

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
Q.1	Limited power sources	N/A
Q.1.1 a)	Inherently limited output	N/A
Q.1.1 b)	Impedance limited output	N/A



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			20	
EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
18th		(0) (1) (1) (1) (1) (1) (1) (1)	A 100	
Whi.	- Regulating network limited output under	(See appended table Q.1)	N/A	

WALTER	- Regulating network limited output under normal operating and simulated single fault condition	(See appended table Q.1)	N/A
Q.1.1 c)	Overcurrent protective device limited output	et aliet write while while	N/A
Q.1.1 d)	IC current limiter complying with G.9	The state of the	N/A
Q.1.2	Compliance and test method	WILL WILL WHILL WALL .	N/A
Q.2	Test for external circuits – paired conductor cable	THE STIFF STIFF MITTER OUT	N/A
EX	Maximum output current (A)	1 1 1	et zet
mer m	Current limiting method	TEX SLIET WITE WALL WALL	nur nu

R	LIMITED SHORT CIRCUIT TEST	enter of the contract of the c	N/A
R.1	General requirements	at let tet	N/A
R.2	Determination of the overcurrent protective device and circuit	mult mult me me	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	WILL MULTE MULL MULT	N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
211.	Samples, material	Mus Mis Mis
LIEK	Wall thickness (mm)	TEK LITEN METER
<i>0</i> ,	Conditioning (°C)	111 111 11
LIER W	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
er L	- Material not consumed completely	N/A
10	- Material extinguishes within 30s	N/A
LIE	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
1	Samples, material	mr. mr. m a
TEX .	Wall thickness (mm)	TEX TEX LITER OF
40,	Conditioning (°C)	711 7 7
WALTE	Test flame according to IEC 60695-11-5 with conditions as set out	t with the N/A
MITEX	Test specimen does not show any additional hole	N/A



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EN 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
	Let let the the with wall	W. W. A.	- 1 1		
S.3	Flammability test for the bottom of a fire enclosure	TEX WITER WITER WITE	N/A		
ALTEK IN	Samples, material	t ex tex tex	ALTEK MITER		
100	Wall thickness (mm)	mi me me	411		
IER WIT	Cheesecloth did not ignite	TEX TEX LITER	N/A		
S.4	Flammability classification of materials	Mur Aug Aug A	N/A		
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	LIEK WHITEK WHITEK WHI	N/A		
Mr. M	Samples, material	EL WILL MALL WALL	Mur Mur		
TEX J	Wall thickness (mm)	t at at	TEX TEX		
111	Conditioning (test condition), (°C)	Mar Mari	hr. 1 2		
ex white	Test flame according to IEC 60695-11-20 with conditions as set out	UNLIER MILIER WI	N/A		
MALTEK	After every test specimen was not consumed completely	CLIEK SLIEK SKIT	N/A		
SLIEK S	After fifth flame application, flame extinguished within 1 min	at the text	N/A		

T	MECHANICAL STRENGTH TESTS	TEX TEX LIFE MITE	Pur
T.1	General requirements	Mer Me My My	Р
T.2	Steady force test, 10 N	TEX LIER SLIER WITE	N/A
T.3	Steady force test, 30 N	"", L. M. M. M. M.	N/A
T.4	Steady force test, 100 N	JE JE JALIE WA	N/A
T.5	Steady force test, 250 N	(See appended table T.5)	P
T.6	Enclosure impact test	TE WALL	N/A
et s	Fall test	The state of the	N/A
M	Swing test	White White White Whi	N/A
T.7	Drop test	(See appended table T.7)	TIN PIE
T.8	Stress relief test	(See appended table T.8)	Р
T.9	Impact Test (glass)	No parts made of glass	N/A
T.9.1	General requirements	in the many	N/A
T.9.2	Impact test and compliance	EV LIEN ALTER MILE WALTE	N/A
* 16	Impact energy (J)	711	(t) -X
Mr	Height (m)	alter with walter wall	m, m
T.10	Glass fragmentation test		N/A
T.11	Test for telescoping or rod antennas	a the with whi we	N/A



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EN 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
1	Torque value (Nm)		* 10 *		

n on	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		
Ú.1	General requirements	No CRTs	N/A
U.2	Compliance and test method for non- intrinsically protected CRTs	the Authority of the Control of the	N/A
U.3	Protective Screen	e of the Maria Maria Maria	N/A

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)	
V.1	Accessible parts of equipment	N/A
V.2	Accessible part criterion	N/A





Reference No.: WTX20X09067986S

t at	TEX LIER SLIER WIL	EN 62368	-1	A .	et Tex
Clause	Requirement – Test	A All	Result – Remark	in mil	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to EN 62368-1:2014+A11:2017 Attachment Form No. EU_GD_IEC62368_1B_II

Attachment Originator: Nemko AS

Master Attachment.....: Date 2017-09-22

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Clause	Requiremen	nt + Test		, Lill F	Result – Remark	(11), 20,	Verdict
CLIE	CENELEC	соммон мо	DIFICATI	ONS (EN)	TEX	TEX STEE	NIE JALI
JE*		bclauses, note 62368-1:2014			nnexes which ar	e additional to	P
CONTENT S	Annex ZA (r correspondir Annex ZB (r Annex ZC (i	ng European p normative) Spe nformative) A-	mative refe publications ecial nation deviations	s al conditions	ernational public	cations with their	P Whitek
MITER		ne "country" i to the followin		e reference	document (IEC	62368-1:2014)	NIEK P
	0.2.1	Note	1	Note 3	4.1.15	Note	
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	White
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	White M
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	CLIEK MI
	5.7.5	Note	5.7.6.1	Note 1 and	2 10.2.1 Table 39	Note 2, 3 and 4	Tik mitek
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	t let
mi m	For special	national con	ditions, se	e Annex ZB	MALIE WALE	MUT MUT	101,5
1et white	-	use of certain sub oment is restricted			WALTER WALTER	WHITEK WHITEK	N/A



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120.			
* #		EN 62368-1	et et tet
Clause	Requirement – Test	Result – Remark	Verdict

Clause Requirement + Test		Result – Remark	Verdict
4.Z1	Add the following new subclause after 4.9:	Mr. Mr. Mr. A.	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective		
	devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;	EX WHITEK WHITEK WHITEK	
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	Whitek whitek whitek whitek	
	c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	INLIEK WHITEK WHITEK WHITEK	
WALTER W	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	White white whitek whitek whi	TEX WHITE
5.4.2.3.2.4	Add the following to the end of this subclause:	No connection to external circuit.	N/A
LIEKWAL	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	Whi whilek	NATER W
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No radiation.	N/A



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2			
× 16	LIER LIER STEEL WITE	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	et witek writek writek w	N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	Whitek whitek whitek whitek	ex whitex white whitex
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	me my m	TEX TEX
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	WE TEX WHITE WHITE WAS	ir in tex mute
	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	WILEY WHITEK WHITEK	White whitek
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	the wat with w	tex itex it
. MUL	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	WITER WALTER WALL WAL	, hy the
10.6.1	Add the following paragraph to the end of the subclause:	THE LIER OLIER WILLE	N/A
TEX	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	TEXT TEXT	LIE SLIEK
10.Z1	Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	TEL O	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	Whitek whitek whitek whitek	MILIER MULIER
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566	TEX WHITEK WHITEK WHITEK WH	WILEX MULTER WIL
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	ALTER WALTER WALTER WHITE	N/A



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n .	20		20.
*	TEX TEX LIER NITER IN	EN 62368-1	- At Att
Claus	se Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
Bibliograph	Add the following standards:	me me m	N/A
y see the	Add the following notes for the standards	indicated:	TEN WITE
	IEC 60130-9 NOTE Harmonized as EN 60130-9.		20, 2
	IEC 60269-2 NOTE Harmonized a	s HD 60269-2.	t TEX
	IEC 60309-1 NOTE Harmonized as EN 60309-1.		me m
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.		at de
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.		ant whi
	IEC 60664-5 NOTE Harmonized as EN 60664-5.		
	IEC 61032:1997 NOTE Harmonized as	EN 61032:1998 (not modified).	LIE MITE
	IEC 61508-1 NOTE Harmonized as	EN 61508-1.	10,
	IEC 61558-2-1 NOTE Harmonized as	s EN 61558-2-1.	EX JEX
	IEC 61558-2-4 NOTE Harmonized as	s EN 61558-2-4.	in m
	IEC 61558-2-6 NOTE Harmonized as	s EN 61558-2-6.	- let a
	IEC 61643-1 NOTE Harmonized as EN 61643-1.		"NL" INT
	IEC 61643-21 NOTE Harmonized as EN 61643-21.		4 14
	IEC 61643-311 NOTE Harmonized as EN 61643-311.		WITE WILL
	IEC 61643-321 NOTE Harmonized as EN 61643-321.		10.
TEX IT	IEC 61643-331 NOTE Harmonized as EN 61643-331.		TEX TEX
ZB	ANNEX ZB, SPECIAL NATIONAL CON	DITIONS (EN)	1/1 1
4.1.15	Denmark, Finland, Norway and Sweder		N/A
	To the end of the subclause the following added:	is white white white white	24 20 ZIL
	Class I pluggable equipment type A int for connection to other equipment or a ne shall, if safety relies on connection to relia earthing or if surge suppressors are conn between the network terminals and accesparts, have a marking stating that the equipment shall be connected to an earth mains socket-outlet.	twork able ected ssible	White whitek
	The marking text in the applicable countries shall be as follows:		whitek whi
	In Denmark : "Apparatets stikprop skal tils en stikkontakt med jord som giver forbind stikproppens jord."		WUTE MUTE
	In Finland : "Laite on liitettävä suojakoske varustettuun pistorasiaan"	ıttimilla	LIEK MITEK
	In Norway : "Apparatet må tilkoples jordet stikkontakt"	mer mer mer me	et let
	In Sweden : "Apparaten skall anslutas till juttag"	jordat unit unit unit	AVE. M

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Transferred train with Earliest 1999		1 ago 00 01 t		ar an
* (*)	TEX LIEX NITER WITE	EN 62368	-1	A LET LET
Clause	Requirement – Test	it let	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
4.7.3	United Kingdom	Not a direct plug-in equipment.	N/A
	To the end of the subclause the following is added:	MILER WHITER WHITER WHITER	
	The torque test is performed using a socket- outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	WALLER WHILER WHILER W	
5.2.2.2	Denmark After the 2 nd paragraph add the following: A warning (marking safeguard) for high touch	No high touch current measured.	N/A
	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	my my met tex	





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	et set set stet stet alse	EN 62368-1	t at at
Claus	e Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
5.4.11.1 and Annex	Finland and Sweden	AND AND AND	N/A
3	To the end of the subclause the following is added:	WALTER WALTER WALTER	MULL MULL M
	For separation of the telecommunication network from earth the following is applicable:	THE STEEL STEEL OF	LIEK WILLEK WAL
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	and with with which	ex white
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	et with whitet whitet	WALTER WALTER
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	OF TEX WILLEY WILLEST	NITEK WITEK W
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Whitek whitek whitek	TEX ON TEX WALTER
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 Kv multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 Kv), and	united united united w	liter white m
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5Kv.	HETE MILL WILL WILL WILL	Who willy
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	TEN TO THE	WILEX WILEX
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE STEET WITER AND	TEK WITEK WAL
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 Kv defined in 5.4.11;	tex miles miles miles	White white
	• the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	while wall wall	riek Wiek
	the impulse test of 2,5 Kv is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	WILL MILE MILES MILE	iet uniet uniet



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11			1. 2h.
* 11	TEX LIER NITER MITE	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
5.5.2.1	Norway After the 3 rd paragraph the following is added: Due to the IT power system used, capacitors	- WILER MULTER AMILER AN	N/A
	are required to be rated for the applicable line-to-line voltage (230 V).	TEX TIES DITES WITH	ex writex was
5.5.6	Finland, Norway and Sweden	No such resistor used.	N/A
	To the end of the subclause the following is added:	lifest whilest whilest while	MULL MULL
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipmenttype A shall comply with G.10.1 and the test of G.10.2.	EX WALTER WALTER WALTER W	MITE WHITEK.
5.6.1	Denmark	The The Man Was	N/A
	Add to the end of the subclause	at at a	* TEX ST
	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Intiek whitek whitek where we will also with the whole where	whitek whitek w
5.6.4.2.1	Ireland and United Kingdom	Mur Mr Mr An	N/A
	After the indent for pluggable equipment type A, the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the main along.	LIFEX MULTER MULTER MULTER	White white
5.6.5.1	in the mains plug. To the second paragraph the following is	The state of the s	N/A
3.0.3.1	added:	The sur	in the same
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:	MULTER MULTER MULTER MULTE	* write* wri
WALL Y	1,25 mm ² to 1,5 mm ² in cross-sectional area.	TEX LIER OLIER MITE	with whi
5.7.5	Denmark	2011 101 10	N/A
	To the end of the subclause the following is added:	H WALTER WALTER WALTER W	Will Mill
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	WAITER WAITER WAITER WAI	iek uniter un



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				a_{μ} , a_{μ}
	* #	TEX LIEX NITER MITE	EN 62368-1	at let let
5	Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
5.7.6.1	Norway and Sweden To the end of the subclause the following is added:	t witek writek writek	M/A
	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 screen of a cable distribution system.	JUNITER WHITER WHITER WAS	ALIEK WITEK WALTER
	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. 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:	ex untrex whitek whitek wh	white white whi trex white white ex arres hites
	"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 coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a	MILL WALL WALLEY	MILIEK WALTER WAL
	device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	NITER WHITER WHITER WH	TEX MUTER MUTER
	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.	neir lie until	white white
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	me me m	an tex it
	"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."	an an an	EX WALTER WALTER
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via	at at at	LIEK NITEK INT
	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.".	nitet whitet whitek wh	TEK MUTEK MUTER



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				a_{μ} , a_{μ}
	* #	TEX LIEX NITER MITE	EN 62368-1	at let let
5	Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
5.7.6.2	Denmark	The the the	N/A
	To the end of the subclause the following is added:	thirek whitek whitek whitek	White M
	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.	WALTER WALTER WALTER WALTER	VILLER WAL
B.3.1 and	Ireland and United Kingdom	at all set sets	N/A
B.4	The following is applicable:	the win mur mer me	77,
	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	EX WALTER WALTER WALTER WALTER	MILIER WALLE





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2			
× 16	LIER LIER STEEL WITE	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

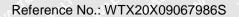
Clause	Requirement + Test	Result – Remark	Verdict
G.4.2	Denmark To the end of the subclause the following is added:	t atter with writer	mirk M/A
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	MUTER MUTER MUTER MU	TEK WITEK WIT
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	EX MULTER MULTER MULTER	White Whitek
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	Mr. Tek Whitek Whitek W	viter write
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	WITER MUTER MUTE	MULTER WALTER
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	lites white white.	Mrtic Mari M
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	Whitek white white w	et while an
	Justification: Heavy Current Regulations, Section 6c	TEX LIE	ALTE MALTER
G.4.2	United Kingdom	100	N/A
	To the end of the subclause the following is added:		INLIER WILLER WI
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Mitek whitek whitek whitek	TEX WILTEX WILTER



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				ω ω
at let	TEX LIER SLIER MY	EN 62368	3-1	at let let
Clause	Requirement – Test	L TEX	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	JUNITER WHITER WHITER WHITER	N/A LIFET WALTER WAL
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	Jun Tek Whitek w	N/A N/A
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A.	Whitek whitek whitek whitek	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	THE THE	LIE NITE
	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel: Int +49-531-592-6320, Internet: http://www.ptb.de	Not such equipment.	N/A LIEK WITER WHITE WHITER WHITER WHITER WHITER WHITER WHITER



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4.1.2	TABLE: List of critical	components	t set set	LIEN LIEN	P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1
PCB	KINGBOARD LAMINATES HOLDINGS LTD	KB-6165F, KB-6160A, KB-616(X)	V-0, 130°C	UL 796, UL 94	UL E123995
Plastic enclosure	LG CHEM LTD	LUPOY GN- 1006F	V-2, 110°C, Min. thickness: 1.5mm	UL 746, UL 94	UL E67171
(Alternative)	COVESTRO DEUTSCHLAND AG [PC RESINS]	6557 + (z)(f1)	V-2, 115°C, Min. thickness: 1.5mm	UL 746, UL 94	UL E41613
Speaker	Various	Various	8Ω, 1W	EN 62368-1	Tested with appliance
Supplementa	ary information:	WILL WATER	W I WII W	and the	applianc

4.8.4, TABLE: Lit	thium coin/button cell ba	atteries mechanical tests	N/A
(The following mechanic	cal tests are conducted in the	he sequence noted.)	+ 2+
4.8.4.2 TABLE: Str	ess Relief test	LEY STEE STEEL STEEL	WILL WALL
Part	Material	Oven Temperature (°C)	Comments
VII MOT MU	Zu	THE LIE - SLIFE MILE IN	ALT WALL W
4.8.4.3 TABLE: Ba	ttery replacement test	A Anna	at at
Battery part no		it will an	not me
Battery Installation/with	drawal	Battery Installation/Removal Cycle	Comments
211 211 211	at at it	LIE MIE MAI WALL WALL	Mrs. Mrs.
		2	TEX LIEX
Mr. 24 25		at any 3	1/1 /11
LIEK SLIEK	A TO MA	4	LIEK SLIEK II
		it will we 50 m	10, 0,
		6 4	EK NITER INIT
		10 m 118 m m	20, 2
		9-	WITE WALTE
		10 m	- L 1/2
1.8.4.4 TABLE: Dro	p test	tex tex stex strex miles	Mile Walit
Impact Area	Drop Distance	Drop No.	Observations
141 241 2	it et itet si	TEX WILL MILLE MILLE MUNICIPAL	Mr. Mr.
ANTER WALTER VAL	Mary All All	2 / 1/	MITEL MALTE
A A A	t itex write write	M 2 M 3 M 2	7. L
4.8.4.5 TABLE: Imp	pact	It let tet iter ster	Wile Wile



Surface tested	Impact energy (Nm)	Comments	
in with the m	1 3 1 1 A A	ITEX - LITER	
Crush test	TER MALTER WALL WALL WALL WALL	n, <u>n,</u>	
Surface tested	Crushing Force (N)	Duration force applied (s)	
WILE MULL AND MULL	7 - A A	LET SET SET	
	Crush test	crush test	

4.8.5	1.8.5 TABLE: Lithium coin/button cell batteries mechanical test result					
Test p	oosition	Surface tested	Force (N)		tion force blied (s)	
TEX	THE CLIE	WITE WILL MULT WILL	10 L - 2 L	H EH	UTEN AU	
Supplem	entary informa	tion:	LIET OF THE WALL	Mr. W	11),	

5.2	TAE	BLE: Classification	n of electrical ene	rgy sources	ALTE WALTE	Mus M	Р
5.2.2	2.2 – Steady	State Voltage and	Current conditions		at at	TEX S	EX LIEK
'm	722	I Starte day	THE IT IS	Parameters			71, 2
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	(Apk or Arms)	Hz	ES Class
	ne in		Normal	5Vrms	unlin-white	DC	70,
£ 1	5Vd.c.	Input and internal circuits	Abnormal		.tet	7. 1. 1. 1.	ES1
	211	internal circuite	Single fault –	TER WATER OR	TIL TAVE	nur - in	an
	Et TE	WIE WILL	Normal	5.01Vrms	- T.II'	DC (ES1
2	5Vd.c.	Vd.c. USB port	Abnormal	mil nu	<u>1</u>	70	
NITE!			Single fault – D7 SC	0	-	EX WALTER	
5.2.2	2.3 - Capacit	tance Limits	MULL MULL	211 211	4 Z	x ex	TEX TE
	Supply	Location (e.g.	at Jet	LIER RUTER	arameters	MUC M	ES Class
No.	Voltage	circuit designation)	Test conditions	Capacitance,	nFL CL	Jpk (V)	
70.			TEX MITE ON	MULL - MU	in.	14. 14.	
5.2.2	2.4 - Single F	Pulses		t at a	F CIENT	LIER WITE	W. The
L	Supply	Location (e.g.	H WILL	Parameters			
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
*	alt is	EX LIEX SLIES	Normal	711	<u> </u>	*	EX TEX
	Mr. Mur.	The sur	Abnormal	TEX TIEK	LIET JALTE	WILL MY	MULL
	EX WALTER	VALTER WALTER	Single fault – SC/OC	# 26# 2	EK TIEK	OLIEK- MIT	* WALTER

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	Supply	Location (e.g.	LIEK WITER W	in in it	Parameters	20, 7	F0.01
No.	Supply Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
16	LEX	TEK OLIER M	Normal	111 - 111		A 11	TEXT OF
V	Mr. My	- 40. 20.	Abnormal	ALTER OLIFE	WILL WU	The state of the s	Wr My
	WALTEX WALTE	WALTER WALT	Single fault – SC/OC	The Tex	TEXT STR	t alter	LIEK NALTE

Test Conditions:

Normal -

Abnormal -

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements							ntie Pynti
MULL	Supply voltage (V)		:	5Vd.	c.	IEK TILE	write wr	an ann
TEX	Ambient T _{min} (°C)		"T. 1	IL.	See b	elow		y Tex
Mur M	Ambient T _{max} (°C)		:		AINLIE		VIII MUL	no.
Maximum measured temperature T of part/at:				1.15	T (°	°C)	IEK WALTEK	Allowed T _{max} (°C)
PCB near l	J1 TEK STEE	E. WALT	55	5.7	80.8			130
PCB near l	J6,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	42	2.3	67.4	LIE MALIE	MUT. M	130
PCB near l	J10 (** , J** , M**)	.0	38	3.9	64.0	* - "	At s	130
C109 body	n 2 st	LI*	39	9.8	64.9	JIAL.	nur - mu	105
L2 winding	TE WILL	AND I	4	1.3	66.4		TEX - TE	130
Plastic enc	losure inside	AVS	32	2.3	57.4	- 1/1	711	Ref.
Plastic enc	losure outside	6	30).4	<u></u>	Þ - -	EX CLIER	~1 ⁷ 77 ~1
Knob	et set	TEX NITE	30	0.4	111 1	11 -12	70,	77
Ambient			24	1.9	50.0	JEK - LIEK	WITEL OR	LIE WALLE
Supplemen	tary information:	A CLIER	Will	int.	me m	70	4	t it
Temperatu	re T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C	$R_2 (\Omega)$	r) T (°C)	Allowed T _{max} (°C)	Insulation class
- Life on	in with Aut	m 2			x zt	16th-	1 - 1 ET	الهاناه

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

Note 3: The maximum ambient temperature specified by manufacturer is 50°C.

5.4.1.10.2 TABLI	7.2 TABLE: Vicat softening temperature of thermoplastics					
Penetration (mm)	* If the alies all and wall wall was an	10 -				

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	and .	y .
oftenir	ng (°C)	in an
		d .

Object/ Part No./Material	Manufacturer/trad emark	T softening (°C)
little outer outer while while we	1 I	TEX TEX - TEX OUTER OF
Supplementary information: *: See appended Table 4.1.2 for details.	The White White	THE THE THE STEEL WE

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					
Allowed imp	pression diam	neter (mm) :	≤ 2 mm	111 11	<u> </u>
Object/Part No./Material Manufacturer/trademark		Test temperature (°C)	meter (mm)		
- 1	at at	- TEK JEK SJEET S	in the time of	4, 4,	
Supplemen	tary informati	on:	A LET LET LIET	LIER WIFE	WILL W
*: See appe	ended Table 4	.1.2 for details.			

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum Clearances/Creepage distance					N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required cr (mm)	cr (mm)
TIEL WILL WALL AND					18t-	EX TEX	INLIE NOL

Supplementary information: Note1: Material Group: Illa/Illb;

Note 2: BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage					
TEX	Overvoltage Category (OV):					
14. 1	Pollution Degree:	الله الله	i al	Mr. Mr.	2	
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measured	l cl (mm)	
(1 16	t liet nifet mit	Mur au m		et et -	TEX I	

Supplementary information:

BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

See appended table 5.4.2.2, 5.4.2.4 and 5.4.3 for measurements.

5.4.2.4 TABLE: Clearances b	ased on electric st	trength test	ST WA W
Test voltage applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No
I at let let lie	INLIE WALL W	11 m m. 1	L - A A
Supplementary information:	1	et tet tet ster	WITE WALL WALL
Not used the alternative method to d	determine the cleara	nces.	

W

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5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements					
Distance the insulation d		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
an me	Me	M. M.		t alter and	" WILL MU!	Mr. Mu
Supplement *: See appe		tion: 4.1.2 for details.	Murit Mir	TEX TEX	ALTER MITER	WALTEK WALTER

5.4.9	TABLE: Electric strength	tests		N/A	
Test voltag	ge applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No	
Functional	et ret ret treet	WITE WILL MAL MAN	24, 24	.L ./L ./	
LIFE WALL	Mr. Mr. M.	# At A	E LIER - LIER JA	WIT WILL	
Basic/supp	elementary:	21, 21,	10	t at at	
- wri	Mur Mir Mr.	at the Tit	OLITER METER MALITY	mrmr	
Reinforced	E TEX STER STER MIST	MALI WA	in the est	LEK LEK	
and a	le m m		OLITE WALL WALL	Mrs. Files 1	
Routine Te	ests:		at at at	TEX TEX	
Tr. M	The state of	LIF	The write while we	20,-	
	ntary information: native sources have been cons	sidered.	t aliet writet and	EX WITEK WALTE	

5.5.2.2	5.5.2.2 TABLE: Stored discharge on capacitors							
Supply Voltage (V), Hz		Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification		
TEK MITE			1/2/	X	J	ALTER WILL		
Supplement	tary infor	mation:	y JEE 10		ne me m	14, 14,		
X-capacitors	s installe	d for testing a	re: 🗥 😘			TEX LIEX OLIES		
Bleeding	resistor	rating:				Mur Mr. M.		
☐ ICX:						at at let		
Notes:						kill whi will a		
A. Test Loca	ation:					1 1 2		
Phase to Ne	Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth							
B. Operatin	g condit	ion abbreviation	ons:			70, 7,		
N – Normal	operatin	g condition (e	.g., normal ope	ration, or oper	n fuse); S –Single faul	t condition		

5.6.6.2	TABLE: Resistance of protective conductors and terminations						
A	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
111.	n	et - uter	ALTER MATTER MALT	Mr Mr.	7/1 7/11 /		

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5.6.6.2	TABLE: Resistance of protective conductors and terminations							
A	ccessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)			
Suppleme	entary information:	t tex tex "	LIE MALTE WA	i nur nur	14, 14,			

5.7.2.2, 5.7.4	TABLE: Earthed accessible condu	Earthed accessible conductive part				
Supply vo	ltage	in the water with the court of	m_ m			
Location	unties white until whitek whitek	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)			
Measured to protective earthing terminal		RITE WILL THE WAY	N/A			
		2*	N/A			
		THE THE WAY	N/A			
		4 4	N/A			
		W 5 W W	N/A			
		106 July July	N/A			
		8 70	N/A			

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.
- N: Normal condition, R: Reverse condition.

6.2.2	Table: Electric	Р					
Source	Description	Measurement	Max Power after 3	Max Power after 5 s*)	PS Classification		
Input and	LIER OUTER	Power (W) :	- 111 - 121	- + A	TEX TEX		
Input and internal Normal		V _A (V) :	EK STEK WITE	WILL MUTTER AND	PS1 (declared)		
circuits	IEL MITER WA	I _A (A) :	24, -2,	at at at	(design od)		
11		Power (W) :	3.84	in min mun	11, 11, 1		
USB port	Normal	V _A (V) :	3.89	- 11t - 11t	PS1		
	The set	I _A (A) :	0.89	mer and m			
NITE	WILL WILL	Power (W) :	0	TEX TEX SIT	ALTER WITE		
USB port	D7 SC	V _A (V) :	The man of man	We Me in	PS1		
	LI WALL WI	I _A (A) :	0	TEX JEX JEX			



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Supplementary Information:

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

SC=Short Circuit, OC=Open Circuit

6.2.3.1 Table: Dete	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
k rek rek crek	NIEK MITE WALL	mr - m	201 - 7	- H- 14

Supplementary information:

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

6.2.3.2	Table: Determination of Potential Ignition Sources (Resistive PIS)								
Circuit Lo	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No			
NITE WA	T WILL A	D 10		EX - TEX	CIER OTTER	The Marie W			

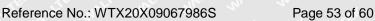
Supplementary Information:

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, or (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
Descriptio	on wife wife while when the	Values	Energy Source Classification
Lamp type	9::	CLIER WILLER WAL	in the me on the
Manufactu	urer:		t et tet tet stet stet
Cat no		LIE WALL	Me Me Me
Pressure ((cold) (MPa):	L A A	MS_
Pressure ((operating) (MPa):	MULL WALL	MS_
Operating	time (minutes):	et et	TEX LIFE NITE MITE MILE
Explosion	method:	when any an	- In - It - It
Max partic	cle length escaping enclosure (mm):	et set s	MS_
Max partic	cle length beyond 1 m (mm):	Vr. Myr. Myr.	MS_
Overall res	sult:	Et TEX JEX	alter retter white wall w





Supplementary information:

B.2.5 TA	BLE: Input	test	14,	et	TEX TEX	ALTEK MY	IE WALL MAR W
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5Vd.c.	0.22	t 15EK	1.1 m	ier Avri	nur n	The The	Maximum normal load
5Vd.c.	0.22	2	1.1	4 WILLIEM	anlier ani	<u>Muria</u>	Maximum normal load

Supplementary information:

The measured input power did not exceed the marked input rating by more than 10 percent when the apparatus was operated to produce the maximum normal input power

B.3	TABLE: Abnormal operating condition tests									
Ambient temp	perature (°C)): et	See below							
Power source for EUT: Manufacturer, model/type, output rating :						See cover page	for detail	ls		
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current (A)	T-couple	Temp. (°C)	Observation		
Speaker	r SC 5Vd.c. 1h52min Plastic enclosure outside	30.9	Input current: 0.22A; Unit was							
iek maiter.	mite whi			ex	WALTE	Ambient	24.8	operating normally, no damged, no hazard.		
USB port	SC	5Vd.c.	10min	WALTE JALY	MITE OF		TEK WA	Input current: 0.01A; Unit shut down immediately, recoverable, no damaged, No hazard.		

Supplementary information:

- 1) SC: short circuit, OL: overload, OC: open circuit; CD: components damaged;
- 2) The Hi-pot test conducted successfully after the completion of fault condition test.
- 3) #: For fault where fuse opened, tested were repeat nine times and same result was obtained.
- 4) No ignition during and after all tests.

B.4	TABLE: Fault condition tests	P A
-----	------------------------------	-----

W

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Ambient tem	perature (°C) 	F 75%	aliti(25 (unless other specified)	wise	Murity mili	
Power sourc	e for EUT: M	lanufacturer, m	nodel/type, d	output ra	iting S	See cover page	for deta	ils —	
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse curren (A)	•	Temp. (°C)	Observation	
C109	MITISC MIT	5Vd.c.	2h5min	No	NITEY KLITEY	Plastic enclosure outside	32.5	Input current: 1.1A; Unit was	
WUTER W		WALTER WALT	Whit	WITEK WITEK	WILER A	Ambient	24.9	operating normally, no damged, no hazard.	

Supplementary information:

- 1) SC: short circuit, OL: overload, OC: open circuit; CD: components damaged;
- 2) The Hi-pot test conducted successfully after the completion of fault condition test.
- 3) #: For fault where fuse opened, tested were repeat nine times and same result was obtained.
- 4) No ignition during and after all tests.

Annex M	TABLE:	Batteries						EK (II)	N/A	
The tests of Annex M are applicable only when appropriate battery data is not available									N/A	
Is it possible to install the battery in a reverse polarity position?										
	Non-re	Non-rechargeable batteries Rechargeable batteries								
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	d charging	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. current during normal condition	TEN THE	y t vur <u>ite</u> k	reliek out	MALTE	unii .		er on	- Whitek	onliex	
Max. current during fault condition	WULLER OF	nitek wai	et white.	TEX MIT	ite wal H walte	Whitek.	milek M	i i i i i i i i i i i i i i i i i i i	EX WILL	
MULLI	ur, m	11/2	10,	et let	- JEX	ALTEK OF	LIER	in Milita	MULL	
Test result	s: K	LIFER	WILL MUL	m	die.	n - x		L 24	Verdict	
- Chemical	leaks	70,	T. EX	- LEX	TEX	LIER INLI	WILL	with.	N/A	
- Explosion of the battery								et	N/A	
- Emission of flame or expulsion of molten metal								Wir Ol	N/A	
- Electric strength tests of equipment after completion of tests								N/A		
Supplemer	ntary inform	nation:	at the same of the	TEX ST	IT STEE	NITE O	Will M	in Mi	In.	

10/0	Table: Additional safeguards for equipment containing secondary lithium	N/A
M.4	batteries	et .

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Battery/Cell	Test condition	Test conditions		Measurements			
No.	WILL MULL MULL			I (A)	Temp	(C) (C)	
111 12	Normal	TEX	WILE - W	The Will M	nu.	10 25	
LIFE NEW NO	Abnormal	10		x x	EF (()	~ \\[\(\frac{1}{2} \) \\ \(\frac{1}{2} \) \\\ \(\frac{1}{2} \) \\\ \(\frac{1}{2} \) \\\ \(\frac{1}{2} \) \\\ \(\frac{1}{2} \) \\\\ \(\frac{1}{2} \) \\\\\ \(\frac{1}{2} \) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	Single fault –SC/O	Cot	TEX JOLI	win -wir	nu -	20,	
Supplementary In	formation:	11,	*	alt let	TEX	ALTER WITE WAL	
Battery identification	Charging at T _{lowest} (°C)	Observation		Charging at T (°C)	highest	Observation	
1/1, - 1/1,	4 - A	A EX	- CLIFE	Life MILE W	Vr. In	24 - 24	

Annex Q.1	TABLE: Circuits in	ntended for int	erconnection w	ith building v	viring (LPS)	N/A
Note: Mea	sured UOC (V) with a	Il load circuits d	isconnected:	at the same of the	LET LET	LIEK N
Output Circuit	Components	U _{oc} (V)	I _{sc} (A)		S (VA)	
			Meas.	Limit	Meas.	Limit
111 1			15 - A	Will Wh	an an	10,

T.2, T.3, T.4, T.5 Part/Locati on	TABLE: Steady force test							
	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation			
Enclosure top	Plastic	See table 4.1.2	250	5	Enclosure remained intact, no crack/opening developed.			
Enclosure side	Plastic	See table 4.1.2	250	1 15 M	Enclosure remained intact, no crack/opening developed			
Enclosure bottom	Plastic	See table 4.1.2	250	5 VIII 5 VIII 1	Enclosure remained intact, no crack/opening developed			

T.6, T.9 TABLE: Impact tests						
Part/Locatio n	Material	Thickness (mm)	Vertical distance (mm)	Observation	*	
Mr. M.	14, 74	THE A	- JEL JER	WILL MULT MULT MULT	nu.	
Supplementary	y information:	MUL MUL	24, 24,	at at at the	TEX	



T.7	TABLE: Drop te	TEX LIEX NITER OF P				
Part/Locatio	Material Thickness (mm)		Drop Height (mm)	Observation		
Enclosure top	Plastic	See table 4.1.2	750	Enclosure remained intact, no crack/opening developed		
Enclosure side	Plastic	See table 4.1.2	750	Enclosure remained intact, no crack/opening developed		
Enclosure bottom	Plastic	See table 4.1.2	750	Enclosure remained intact, no crack/opening developed		

D // //			T.8 TABLE: Stress relief test							
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation					
Enclosure	Plastic	See table 4.1.2	70	ALTE! RLIE!	Enclosure remained intact					





Photo Documentation

Model: HM2-G01



Photo 1

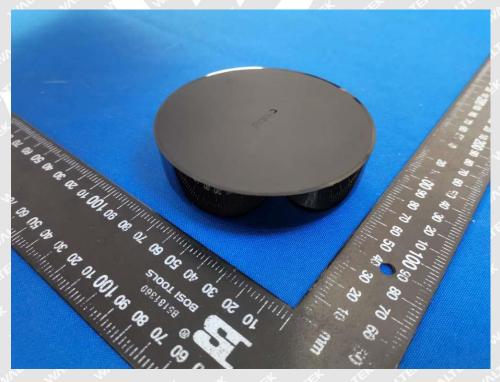


Photo 2



Photo Documentation



Photo 3



Photo 4



Photo Documentation

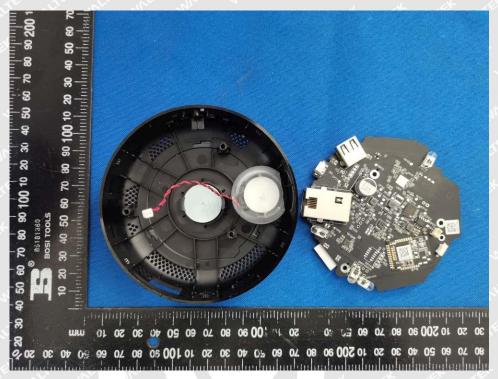


Photo 5

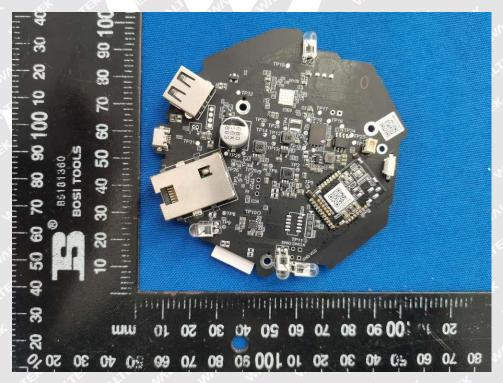


Photo 6

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Photo Documentation

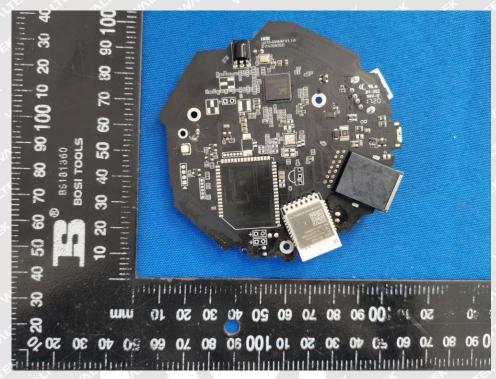


Photo 7

===== End of Report ======

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