

# **TEST REPORT**

**Reference No.** ..... : WTX20X11088157S

Applicant .....: Lumi United Technology Co., Ltd

Address ...... : 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian 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 ...... Wireless Remote Switch H1(Double Rocker)

Model(s).....: WRS-R02

Total pages ..... : 60 pages

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

BS 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 .... : 2020-11-30

Date of Test ...... : 2020-11-30 to 2020-12-11

Date of Issue .....: 2020-12-11

Test Result .....: Pass

#### Remarks:

Tested by

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.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

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Compiled by: Approved by:

Billy Thou

Harvid Wei / Manager

Billy Zhou / Testing Engineer

Ian Sun / Project Engineer



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Test item description: Wireless Remo	te Switch H1(Double Rocker)
Trademark: Aqara	
Model and/or type reference: WRS-R02	
Rating(s): Input: 3V=== (Po	owered by 1 pcs coin battery)
Whether parts of tests for the product have been sub	contracted to other labs:
☐ Yes ⊠ No	
If Yes, list the related test items and lab information:	
Test items:	
Lab information:	
Summary of testing:	IN THE TEN LITER STITE WITE SMITE
Tests performed (name of test and test clause):	Testing location:
- EN 62368-1:2014+A11:2017	WALTEK Testing Group (Shenzhen) Co., Ltd.
- BS EN 62368-1:2014+A11:2017	Address: 1/F., Room 101, Building 1, Hongwei
LEK TEK ITEK STIER MITE MIT WAS	Industrial Park, Liuxian 2nd Road, Block 70 Bao'an
The submitted samples were found to comply with	District, Shenzhen, Guangdong, China
the requirements of above specification.	The me my my







Copy of marking plate:	Et Tet Tet Mile Will Will Will Will Will Will Will W
NIEL WILL WILL.	
201	
ALTEK MITER	altek altek
LIER WILLER	TEX MITTER IV
'n' 'n'	
EX JOLIER NAL	K NITER WAL
70, 7	
MITEL WALTE	WITE WITE
70. 2	
NLTER WALTER V	Aqara Wireless Remote Switch H1 (Double Rocker)
	wheless remote switch in ( bouble rocker) Беспроводной выключатель H1 (2 клавиши)
TEN WALTE WA	Model: WRS-R02 Battery Type: CR2450 Lumi United Technology Co., Ltd. Made in China
L at a	Address: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen, China
WALTE WALL	
at at	ERI C € ∧ Z
MALITE MALIN	Marit Walit
LIL WALL	Lite white a
EK TEK	
MUT, MU M	The life will while while while
TEX TEX LITER	Importer name: XXX Importer address: XXX
MUT, MUT, MIKE	The state of the s
at at let	

# 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:				
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:	:			
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	<ul> <li>☐ movable</li> <li>☐ hand-held</li> <li>☐ transportable</li> <li>☐ stationary</li> <li>☐ for building-in</li> <li>☐ direct plug-in</li> <li>☐ rack-mounting</li> <li>☐ wall-mounted</li> </ul>			
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 <sub>L-L</sub> ☐ not AC mains			
Altitude during operation (m)	⊠ 2000 m or less			
Altitude of test laboratory (m)	⊠ 2000 m or less			
Mass of equipment (kg)	⊠ 0.077kg			
alter with white white will be	at the test the life with			



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POSSIBLE TEST CASE VERDICTS:	the me me me the			
- 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:	And An			
Date of receipt of test item	2020-11-30			
Date (s) of performance of tests	2020-11-30 to 2020-12-11			
Mer Me Me Me Me	TEX LIES BLIEF WILL WHILL WHILL WHILL			
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:	A A A LET TEX STEE STEE STEE			
Product Description  1. The product covered in this report is a Wireless Ren audio/video, information and communication technology. As the applicant declares, the Max. ambient temperature.	gy equipment.			
Model Differences N/A	NITER WHITE WHITE WHITER WHITER WHITE			
Additional application considerations – (Consideration)	ations used to test a component or sub-assembly)			





#### **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):**

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

Example: +5 V dc input, ES1

Source of electrical energy	Corresponding classification (ES)	
All internal circuits	ES1	

#### 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)	
All internal circuits	PS1 (declared)	

# 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 35.)

Example: Wall mount unitMS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Mass of the unit	MS1
Edges and corners	MS1 Life mil me un v
Wall/ceiling mount	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.)

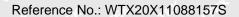
Example: Hand-held scanner – thermoplastic enclosure

Source of thermal energy	Corresponding classification (TS)		
Accessible surfaces	TS1 WE WE WILL THE TOTAL T		

#### 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

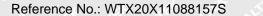
⊠ TS

 $\boxtimes$  RS

Details see ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE

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Clause	Possible Hazard				
5.1	Electrically-caused injury	Anti wai wa sa			
Body Part	Energy Source	Safeguards			
(e.g. Ordinary) (ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)		
Ordinary person	ES1: All internal circuits	N/A	N/A	N/A	
6.1 and and	Electrically-caused fire	LEX S	EX LIEX NITER	WILL WAL	
Material part	Energy Source	in an	Safeguards	- J	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Enclosure	PS1: All internal circuits (declared)	N/A	N/A	N/A	
7.1	Injury caused by hazardou	s substance	st who we	72.	
Body Part	Energy Source	iet .	Safeguards	NITER	
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused injury	iry un			
Body Part			Safeguards	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	
Ordinary person	MS1: Wall/ceiling mount	N/A	N/A	N/A	
9.1	Thermal Burn	10,		et et	
Body Part	Energy Source	EX STEE	Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary person	TS1: Accessible surfaces	N/A	N/A un	N/A	
10.1	Radiation	TEX II	EK OLIEK MILE	WILL WILL	
Body Part	Energy Source	Safeguards		at at	
(e.g., Ordinary)	Ordinary) (Output from audio port)	Basic	Supplementary	Reinforced	
Ordinary person	RS1: LED indicator	N/A	N/A	N/A	

Supplementary Information:

<sup>(1)</sup> See attached energy source diagram for additional details.

<sup>(2) &</sup>quot;N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault



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	WYL	m. m. m.	EN 62368-1	MUL. MUL
C	lause	Requirement – Test	Result – Remark	Verdict

4	GENERAL REQUIREMENTS	Kr. We Mr. M. M.	Р
4.1.1	Acceptance of materials, components and subassemblies	TEX WAITER WAITER WAITER WAIT	W 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	MILLER MAL
4.1.3	Equipment design and construction	The men we may	Р
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.4	Safeguard robustness	me me m	Р
4.4.4.2	Steady force tests	(See Annex T.4, T.5)	ALT P
4.4.4.3	Drop tests	(See Annex T.7)	N/A
4.4.4.4	Impact tests	(See Annex T.6)	Pru
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	The external enclosure cannot be opened without tool.	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)	P
4.4.4.8	Air comprising a safeguard	No such safeguard used	N/A
4.4.4.9	Accessibility and safeguard effectiveness	THE THE STREET	N/A
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	EK P
4.6	Fixing of conductors		N/A
4.6.1	Fix conductors not to defeat a safeguard	ER WITER WITE WALL MALL	N/A
4.6.2	10 N force test applied to		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	INTER WATER WALTER WHITE WE	N/A
4.7.3	Torque (Nm)	THE THE LIFT NITE ONLY	N/A
4.8	Products containing coin/button cell batteries	" Mr Mr M. M.	Р
4.8.2	Instructional safeguard	* TEX LIER SLIER WITE	nn P
4.8.3	Battery Compartment Construction	The Mr. Mr. Mr.	Р
WALTE	Means to reduce the possibility of children removing the battery	WILLER WILLER WILLER	Vri —M
4.8.4	Battery Compartment Mechanical Tests	Internal fixed by clip and external secured by enclosure	PALI



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EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
4.8.5	Battery Accessibility	NIET WITE WITE WALL WA	P	
4.9	Likelihood of fire or shock due to entry of conductive object	No openings	N/A	

5	ELECTRICALLY-CAUSED INJURY	Mury Mur Ally All	Р
5.2.1	Electrical energy source classifications	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current	(See appended table 5.2.2.2)	P
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	Not the Man My the	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	TEX WHITEX WHITEX WHITEX WHITE	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit can be accessed	MALIP
5.3.2.2	Contact requirements	+ 15	N/A
M	a) Test with test probe from Annex V	WITE WITE WALL AND A	N/A
TEX	b) Electric strength test potential (V)		N/A
11/2 1	c) Air gap (mm)	LIFE MILL WALL WALL WAS	N/A
5.3.2.4	Terminals for connecting stripped wire	A A SET SET SE	N/A
5.4	Insulation materials and requirements	TE WILL MILL MAN WAY	N/A
5.4.1.2	Properties of insulating material	at at the the	N/A
5.4.1.3	Humidity conditioning	No such material used	N/A
5.4.1.4	Maximum operating temperature for insulating materials	NITER UNLIER WAITER WALTER W	N/A
5.4.1.5	Pollution degree		*
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	the mail man man was	N/A
5.4.1.5.3	Thermal cycling	ex alter white white white	N/A
5.4.1.6	Insulation in transformers with varying dimensions	TEX STEX STEX WITH	N/A
5.4.1.7	Insulation in circuits generating starting pulses	Mr. Mr. M. M.	N/A
5.4.1.8	Determination of working voltage	TEX LIEX OLIER WITE W	N/A
5.4.1.9	Insulating surfaces	le m n	N/A



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	EN 62368	3-1	
Clause	Requirement – Test	Result – Remark	Verdict
5/1/10		Lift with with whi	in white
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	a state	N/A
5.4.1.10.2	Vicat softening temperature	it will my must	N/A
5.4.1.10.3	Ball pressure	L LIK TEK	N/A
5.4.2	Clearances	Mur, Aur. Au.	N/A
5.4.2.2	Determining clearance using peak working voltage	WITER MITER WALTER WA	N/A
5.4.2.3	Determining clearance using required withstand voltage	itex altex writex will	N/A
et a	a) a.c. mains transient voltage	201	- A
in Mur	b) d.c. mains transient voltage	EX CLIER WILE WILL	Mr. Mr.
EX LEX	c) external circuit transient voltage	The state of	est let
- Lik	d) transient voltage determined by measurement	MULTER MULTER MILLE A	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	UNLIER WALTER WALTER WAS	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	TEX WALTER WALTE	N/A
5.4.3	Creepage distances	A THE STATE OF THE	N/A
5.4.3.1	General	2 41	N/A
5.4.3.3	Material Group		LIEN NIE N
5.4.4	Solid insulation	MUTI MUTI MUTICAL	N/A
5.4.4.2	Minimum distance through insulation	et set set set	N/A
5.4.4.3	Insulation compound forming solid insulation	ir, Mur Mir Mir	N/A
5.4.4.4	Solid insulation in semiconductor devices	EX TEX LIER SLIER	N/A
5.4.4.5	Cemented joints	Mr. M. M.	N/A
5.4.4.6	Thin sheet material	- TEK LIEK SLIER	N/A
5.4.4.6.1	General requirements	Mr. Mr. An	N/A
5.4.4.6.2	Separable thin sheet material	LIER WIFE WIFE WA	N/A
et	Number of layers (pcs)	11 11 11	N/A
5.4.4.6.3	Non-separable thin sheet material	LIER OLIER WILL WHITE	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	of the tier wifer	N/A
5.4.4.6.5	Mandrel test	Mr. M. M.	N/A
5.4.4.7	Solid insulation in wound components	TEN LITER WITER	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	14, 14, 14, 1	N/A
5.4.5	Antenna terminal insulation	LIER SLIER WILLER WAL	N/A
5.4.5.1	General	1, 4, 4, 4,	N/A



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2/11	EN 62368		L. M. M.
Clause	Requirement – Test	Result – Remark	Verdict
- 100		Lift with the way	in white war
5.4.5.2	Voltage surge test		N/A
ing in	Insulation resistance (MΩ)	THE RESERVE WITE WALTER	and and
5.4.6	Insulation of internal wire as part of supplementary safeguard	L It let let	N/A
5.4.7	Tests for semiconductor components and for cemented joints	must must must	N/A
5.4.8	Humidity conditioning	WILL AUTHORITY	N/A
JEK.	Relative humidity (%)		et et te
111 111	Temperature (°C)	LIER WHIE WHILL WHI	my my
LIEK NI	Duration (h)	at at let let	TE STEE
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for a solid insulation type test	- at left left	N/A
5.4.9.2	Test procedure for routine tests	MULL MULL MILL A	N/A
5.4.10	Protection against transient voltages between external circuit	THE WALTER WALTER WAS	N/A
5.4.10.1	Parts and circuits separated from external circuits	TEX STEX WIFE SMIF	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	NALLY STATES	M/A
5.4.10.2.2	Impulse test	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	N/A
5.4.10.2.3	Steady-state test	MITE MALTE WALL W	N/A
5.4.11	Insulation between external circuits and earthed circuitry	LIER STER WITER WIT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	et tet itet stet	N/A
5.4.11.2	Requirements	My My My	N/A
TE WALTE	Rated operating voltage U <sub>op</sub> (V)	TEX LIER SLIFE	WILL WILL
t it	Nominal voltage U <sub>peak</sub> (V)	Mr. In m.	* J.+-
WILL.	Max increase due to variation U <sub>sp</sub>	LIER ALTER MITE NO	right and the same
, Et	Max increase due to ageing $\Delta U_{sa}$		* # -0
Mr. M	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa} \dots$	LIET INLIER ANLIER MALT	Mr. Mr.
5.5	Components as safeguards		TEX TEX
5.5.1	General	IN ITEM MALIE WALLE	N/A
5.5.2	Capacitors and RC units	* * *	N/A
5.5.2.1	General requirement	WILL MULT MILL A	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	LIEK OLIEK WILEK MAL	N/A
5.5.3	Transformers	De 211. 12. 2	N/A



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7/1/2	EN 62368-1	m, m
Clause	Requirement – Test Result – Remark	Verdict
	We will be a second of the sec	The Mark
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
TEX	Protective earthing conductor size (mm²)	THE THE
5.6.4	Requirement for protective bonding conductors	N/A
5.6.4.1	Protective bonding conductors	N/A
10,1	Protective bonding conductor size (mm²)	7/2
NITE ON	Protective current rating (A)	ALTER-IN
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
	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 conductor 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	
	The same of the sa	et the the	The Maria War.	
	System of interconnected equipment (separate connections/single connection)	he me me m	t list slight	
	Multiple connections to mains (one connection at a time/simultaneous connections)	in mil mil mil	Mr. M.	
5.7.4	Earthed conductive accessible parts	CLIEB WILL WALL	N/A	
5.7.5	Protective conductor current	70 T	N/A	
Me	Supply Voltage (V)	WITE WALLE WALLE	Vr. M. M.	
TEX	Measured current (mA)		Et Et TE	
711, 1	Instructional Safeguard	The Mile Mr. Mr.	N/A	
5.7.6	Prospective touch voltage and touch current due to external circuits	EX STEX WIFE MILE	WALLE WAY	
5.7.6.1	Touch current from coaxial cables	The state of	N/A	
5.7.6.2	Prospective touch voltage and touch current from external circuits	MILLE MILL MULL	N/A	
5.7.7	Summation of touch currents from external circuits	INLIER WHITER WHITE WA	N/A	
NALTER W	a) Equipment with earthed external circuits     Measured current (mA)	TEX MUTEX WALTER WALT	N/A	
LIEK WAL	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	HELD MITTEL	N/A	

6 m	ELECTRICALLY- CAUSED FIRE	alie with whit wall o	V. Pal
6.2	Classification of power sources (PS) and potenti	al ignition sources (PIS)	P.
6.2.2	Power source circuit classifications	LIET WITE WALL WALL WALL	P
6.2.2.1	General	a state of	P
6.2.2.2	Power measurement for worst-case load fault	: (See appended table 6.2.2)	P
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	MITP
6.2.2.4	PS1	: (See appended table 6.2.2)	P
6.2.2.5	PS2	alie mile mil wall w	N/A
6.2.2.6	PS3		N/A
6.2.3	Classification of potential ignition sources	Life Will MULL AND AND	N/A
6.2.3.1	Arcing PIS	A ST SET SET	N/A
6.2.3.2	Resistive PIS	This was we we	N/A
6.3	Safeguards against fire under normal operating	and abnormal operating conditions	P
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	No combustible materials outside fire enclosure	N/A



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2/1,	EN 62368		10,
Clause	Requirement – Test	Result – Remark	Verdict
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard Method	Method of "control of fire spread" is used.	UNP
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	- NITER WITER WHITER	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	THE STEP STEP WITH W	N/A
6.4.3.1	General	in in in	N/A
6.4.3.2	Supplementary Safeguards	ITEX SITEX NITER SINITE WAY	N/A
LIEK NAL	Special conditions if conductors on printed boards are opened or peeled	of the the state with	N/A
6.4.3.3	Single Fault Conditions	Mu, Mu, Mi, Mi	N/A
WALTE	Special conditions for temperature limited by fuse	Whitek Whitek Whitek White	N/A
6.4.4	Control of fire spread in PS1 circuits	at at the the	P
6.4.5	Control of fire spread in PS2 circuits	Will MUT, MUT, MUT, MUT, MI	N/A
6.4.5.2	Supplementary safeguards	ex tex tex ties ties all	N/A
6.4.6	Control of fire spread in PS3 circuit	in my m	N/A
6.4.7	Separation of combustible materials from a PIS	Mulier White	N/A
6.4.7.1	General	The The	N/A
6.4.7.2	Separation by distance	"MUTTE MUTE AND A	N/A
6.4.7.3	Separation by a fire barrier	it jet jet jet ni	N/A
6.4.8	Fire enclosures and fire barriers	iti mer mer me m	N/A
6.4.8.1	Fire enclosure and fire barrier material properties	ex writer writer writer write	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	White Muli and any	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	ALTER WIFER WHITER WHITER W	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		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)	No openings	N/A
et et	Needle Flame test	Mr. Mr.	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	No openings	N/A
WALTE	Flammability tests for the bottom of a fire enclosure	NIFE WITER WHITE WHITE WA	N/A



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	EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
	We will the the	ill the time	in one	
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	he was also as	N/A	
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	it must must must	N/A	
6.5	Internal and external wiring	ALTER WITE WALTE	M N/A	
6.5.1	Requirements	The state	N/A	
6.5.2	Cross-sectional area (mm²)	WITE WALL MALL M	L. 11 _	
6.5.3	Requirements for interconnection to building wiring	TEX STEEL BUTER SALE	N/A	
6.6	Safeguards against fire due to connection to additional equipment	at the tree street	N/A	
TEX TE	External port limited to PS2 or complies with Clause Q.1	Me Me Me	N/A	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		TEN POLIE
7.2	Reduction of exposure to hazardous substances	with my my my	N/A
7.3	Ozone exposure	ITE WALLE WALL WALL WA	N/A
7.4	Use of personal safeguards (PPE)	A A A A A A A A A A A A A A A A A A A	N/A
10	Personal safeguards and instructions	2 July My	_
7.5	Use of instructional safeguards and instructions	BLIFE WILLE WHILE	N/A
- TEX	Instructional safeguard (ISO 7010)	The state of the	Ex TEX
7.6	Batteries	(See Annex M)	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General	at the text the	IT P
8.2	Mechanical energy source classifications	MULL MULL MULL MILL	Р
8.3	Safeguards against mechanical energy sources	EX TEX TEX STEEL O	LIE PAL
8.4	Safeguards against parts with sharp edges and corners	Edges and corners are classed as MS1	P
8.4.1	Safeguards	LIE WALTE WALL WALL WALL	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	MULT MULT MULT MILE	N/A
8.5.2	Instructional Safeguard	CLIEB WITE WALL WALL	_
8.5.4	Special categories of equipment comprising moving parts	TEK TIEK WITH WITEK W	N/A
8.5.4.1	Large data storage equipment	L 41	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	requirement – rest	result - Remark	verdict
8.5.4.2	Equipment having electromechanical device for destruction of media	out my my my	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	it will me me	N/A
8.5.4.2.2	Instructional safeguards against moving parts	L SEK TEK TEK	N/A
	Instructional Safeguard	Mur, Mur, Mr. M.	_
8.5.4.2.3	Disconnection from the supply	· TEX TEX TEX ST	N/A
8.5.4.2.4	Probe type and force (N)	" My My My My	N/A
8.5.5	High Pressure Lamps	TEX TEX STEE STEE	N/A
8.5.5.1	Energy Source Classification	A THE THE THE	N/A
8.5.5.2	High Pressure Lamp Explosion Test	ex liex oliex orlies	N/A
8.6	Stability	The the	N/A
8.6.1	Product classification	Equipment mass: MS1	N/A
t TEX	Instructional Safeguard	Not required	<u>+                                    </u>
8.6.2	Static stability	WILL WILL MILL MAN	N/A
8.6.2.2	Static stability test	A SH SH SH	N/A
71, 2,	Applied Force	The Wall Wall Wall	
8.6.2.3	Downward Force Test	d et la chi	N/A
8.6.3	Relocation stability test	a full a	N/A
ER INITE	Unit configuration during 10° tilt		_
8.6.4	Glass slide test	Mury Mury My My	N/A
8.6.5	Horizontal force test (Applied Force)	TEX JEX LITER OLITER	N/A
*	Position of feet or movable parts	he we want	_
8.7	Equipment mounted to wall or ceiling	Mounted < 2m MS1	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	White White white wh	N/A
8.7.2	Direction and applied force	BY THE LIER OUT	N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	TEX TEX LIER OUTER	N/A
8.8.2	Applied Force	in Mr. M. M.	N/A
8.9	Wheels or casters attachment requirements	Not such equipment	N/A
8.9.1	Classification	Mr In In	N/A
8.9.2	Applied force	LIEN WILL WILL WATER	
8.10	Carts, stands and similar carriers	Not such equipment	N/A
8.10.1	General	ALTER WALTER WALTE WALTE	N/A
8.10.2	Marking and instructions		N/A



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	EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
	The Mr. An An St.	et the the til	This NAME		
	Instructional Safeguard	ur mu m. m.	_		
8.10.3	Cart, stand or carrier loading test and compliance	VIEW WALTER WALTER	N/A		
LIER MLTE	Applied force	t let let liet	LIFEK —		
8.10.4	Cart, stand or carrier impact test	Mr. Mr. M. A	N/A		
8.10.5	Mechanical stability	- TEX STEX STEX ON	N/A		
*	Applied horizontal force (N)	"he he he	_		
8.10.6	Thermoplastic temperature stability (°C)	TEL STEE STEET SOUTE	N/A		
8.11	Mounting means for rack mounted equipment	Not such equipment	N/A		
8.11.1	General	TEX ALTER MITE MALTE	N/A		
8.11.2	Product Classification	An an	N/A		
8.11.3	Mechanical strength test, variable N	ALTER WITE WALTE	N/A		
8.11.4	Mechanical strength test 250N, including end stops	THE STEEL NITER WIL	N/A		
8.12	Telescoping or rod antennas	" No. 141 141 141	N/A		
Write M	Button/Ball diameter (mm)	TEX LIER SLIER WITE	writ —		

9	THERMAL BURN INJURY	Nr. B M
9.2	Thermal energy source classifications	At APP OF
9.3	Safeguard against thermal energy sources	Pull Pull
9.4	Requirements for safeguards	← N/A
9.4.1	Equipment safeguard	N/A
9.4.2	Instructional safeguard	N/A

10	RADIATION	t it let tet itet	Р
10.2	Radiation energy source classification	MULT MULT MULT MILE	Р
10.2.1	General classification	LED indicator: Classed as RS1 (Exempt Group)	TE PALT
10.3	Protection against laser radiation		N/A
Mr. M.	Laser radiation that exists equipment:	life white white white whi	n <sub>l</sub>
LIEK OLI	Normal, abnormal, single-fault	at at at the state	N/A
14	Instructional safeguard	White Music Music Music Music Music	_
EK OLIE	Tool	EX TEX TEX LITER	_
10.4	Protection against visible, infrared, and UV radiation	Must Aug Aug Aug	P
10.4.1	General	Write Muri Anti Anti An	Р
10.4.1.a)	RS3 for Ordinary and instructed persons	a start of the	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result - Remark	Verdict
10.4.1.b)	RS3 accessible to a skilled person	VIII MUI MUI MUI	N/A
NITE WAY	Personal safeguard (PPE) instructional safeguard	TEX MITEX WATER WATER	MULLE MUTTER
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1	L OUTEK OUTEK OUTEK	IN N/A
10.4.1.d)	Normal, abnormal, single-fault conditions	70 7 7	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	MULTER WALLE WALLE WA	N/A
10.4.1.f)	UV attenuation	TEX TEX STEE STEE	N/A
10.4.1.g)	Materials resistant to degradation UV	- W W	N/A
10.4.1.h)	Enclosure containment of optical radiation	EX STEE RITER SPITE	N/A
10.4.1.i)	Exempt Group under normal operating conditions	THE THE STREET	N/A
10.4.2	Instructional safeguard	Mr. M. M.	N/A
10.5	Protection against x-radiation	TEX LIEX NITER INT	N/A
10.5.1	X- radiation energy source that exists equipment	of the text its	N/A
	Normal, abnormal, single fault conditions	I MILL MILL	N/A
IE WILL	Equipment safeguards	X AF A LITER	N/A
t	Instructional safeguard for skilled person	1 3	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	White Mills Miller	ite, Avri An
NLTER 1	Abnormal and single-fault condition		N/A
20, 2	Maximum radiation (pA/kg)	Tri Mur Mur My	N/A
10.6	Protection against acoustic energy sources	ex sex sex stex	N/A
10.6.1	General	in were any	N/A
10.6.2	Classification	- TEK TEK STEK	N/A
1	Acoustic output, dB(A)	Mur Mr M	N/A
WILL	Output voltage, unweightedr.m.s.	TEX LIEX NITER IN	N/A
10.6.4	Protection of persons	in in in	N/A
NULL VI	Instructional safeguards	TEX LIER NITER WITE	N/A
LIEK MIL	Equipment safeguard prevent ordinary person to RS2	of the text of the	CLITER -
EK JIEK	Means to actively inform user of increase sound pressure	Who we will	TEX _
TEK	Equipment safeguard prevent ordinary person to RS2	Murin muri muri M	<u> </u>
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	NITER WALTER WALTE WALTE	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	Milet white wait	N/A		
TEX TO	Input voltage with 94 dB(A) L <sub>Aeq</sub> acoustic pressure output	The many war was an	<u>_</u>		
10.6.5.2	Corded listening devices with digital input	ALTER WILL WALL WALL	N/A		
y TEX	Maximum dB(A)	The second second	_		
10.6.5.3	Cordless listening device	WILL MILL MILL MILL	N/A		
TEX	Maximum dB(A)		_		

BIEK	NORMAL OPERATING CONDITION TESTS, A CONDITION TESTS AND SINGLE FAULT CO		WIL
B.2	Normal Operating Conditions	The set set	P
B.2.1	General requirements	. (See Test Item Particulars and appended test tables)	M <sup>™</sup> P <sup>™</sup>
Will	Audio Amplifiers and equipment with audio amplifiers	No audio amplifiers	N/A
B.2.3	Supply voltage and tolerances	LEK TEK STEK STEK BLI	Р
B.2.5	Input test	. (See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	EN SET STIFE MITE	an 'P
B.3.1	General requirements	. (See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No openings	N/A
B.3.3	D.C. mains polarity test	All All All All	N/A
B.3.4	Setting of voltage selector	. No such voltage selector	N/A
B.3.5	Maximum load at output terminals		N/A
B.3.6	Reverse battery polarity	TEX SLIER MILE WALL WALL	W P
B.3.7	Abnormal operating conditions as specified in Clause E.2.	- TEX LIEX SLIER MITEX	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3)	TEK P
B.4	Simulated single fault conditions	MULL MULL MULL MILL MILL	Р
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	ment ment ment ment	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)	TEX P



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EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	Wer All An An An A	LEK TEK TEK MIT	WILL MAL	
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р	
B.4.4.3	Short circuit of functional insulation on coated printed boards	the main man w	N/A	
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	W P	
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	JI LI PIN	
B.4.7	Continuous operation of components	et let let let	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	E WILL MUT MUT AND	N/A	

C	UV RADIATION	M/A
C.1	Protection of materials in equipment from UV radiation	STEET STEET N/A
C.1.2	Requirements	N/A
C.1.3	Test method	W N/A
C.2	UV light conditioning test	N/A
C.2.1	Test apparatus	N/A
C.2.2	Mounting of test samples	N/A
C.2.3	Carbon-arc light-exposure apparatus	N/A
C.2.4	Xenon-arc light exposure apparatus	N/A

D	TEST GENERATORS	CH TEX TEX LIER NUTE	N/A
D.1	Impulse test generators	Mus Mus Mus And And	N/A
D.2	Antenna interface test generator	E TEX ITEX STEE STEE	N/A
D.3	Electronic pulse generator	in my my my my	N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	N/A
114	Audio signal voltage (V)	* *
الل الله	Rated load impedance (Ω)	Mr. Mu
E.2	Audio amplifier abnormal operating conditions	N/A

FUNLTER	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS	TEX PITER
F.1	General requirements	L P



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NUL	EN 62368	3-1 the other will are	ur m
Clause	Requirement – Test	Result – Remark	Verdict
21/1/2	Instructions – Language	English	<u> </u>
F.2	Letter symbols and graphical symbols	et tet tet stet stet suit	P
F.2.1	Letter symbols according to IEC60027-1	Mr. Mr. Mr. Mr.	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	WALTER WALTER WALTER WALTER	MALIP W
F.3	Equipment markings	ex tex tex stex.	LIE PIN
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible	EK ALTEN
F.3.2	Equipment identification markings	See below	Р
F.3.2.1	Manufacturer identification	(See copy of marking plate)	Р
F.3.2.2	Model identification	(See copy of marking plate)	Р
F.3.3	Equipment rating markings	Et TEX TEX LITER	out <sup>©</sup> P of
F.3.3.1	Equipment with direct connection to mains	with my my mind	N/A
F.3.3.2	Equipment without direct connection to mains	et set set siet with	Je Poli
F.3.3.3	Nature of supply voltage	(See copy of marking plate)	Р
F.3.3.4	Rated voltage	(See copy of marking plate)	Р
F.3.3.4	Rated frequency	111 111 111	N/A
F.3.3.6	Rated current or rated power	y st suite mile	N/A
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	m m t	P 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	EX TEX LIEX NITES INLIV	N/A
F.3.5.3	Replacement fuse identification and rating markings	THE THE TEXT LIES	N/A
F.3.5.4	Replacement battery identification marking	(See copy of marking plate)	Р
F.3.5.5	Terminal marking location	EX TEX TEX STEEL OF	N/A
F.3.6	Equipment markings related to equipment classification	THE THE THE THE	N/A
F.3.6.1	Class I Equipment	Class III	N/A
F.3.6.1.1	Protective earthing conductor terminal	at the text text	N/A
F.3.6.1.2	Neutral conductor terminal	"MULL MULL MULL MULL	N/A
F.3.6.1.3	Protective bonding conductor terminals	at let let let	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	NIEK WILEK WHILEK WHILEK WA	N/A



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M	EN 62368	3-1 the strength with the	no m
Clause	Requirement – Test	Result – Remark	Verdict
F.3.6.2.2	Class II equipment with functional earth terminal marking	neighbor the set of	N/A
F.3.7	Equipment IP rating marking	IPX0, no marking is needed	4,
F.3.8	External power supply output marking	L at let tet tet	N/A
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions	ITEK P
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	EX PIE
F.4	Instructions	The Mr M. M.	Р
WALTE	a) Equipment for use in locations where children not likely to be present - marking	WILER WATER WATER WATER	N/A
LIER	b) Instructions given for installation or initial use	at at test test	TE PUT
70,	c) Equipment intended to be fastened in place	WILL MULL AND AND AND AND	N/A
WITEE W	d) Equipment intended for use only in restricted access area	TEX WIFE WHITEK WHITEK WHITE	N/A
LIEX WALK	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	MILIER WALTER	N/A
NITE	f) Protective earthing employed as safeguard	THE THE LITER	N/A
TEX	g) Protective earthing conductor current exceeding ES2 limits	when the text is a	N/A
1/12 1	h) Symbols used on equipment	FILE MULL MULL MULL MULL	Р
William AN	Permanently connected equipment not provided with all-pole mains switch	EX WILEY WILEY WILEY	N/A
IEK WALTE	j) Replaceable components or modules providing safeguard function	- TEK STEK STEK MITEK	N/A
F.5	Instructional safeguards	The Mr. Mr.	Р
WILL	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	WILL MULLE MULLE MULLE MI	er ite

G	COMPONENTS	the state of	N/A
G.1	Switches	TER MILL WALL WALL WALL	N/A
G.1.1	General requirements	No such component	N/A
G.1.2	Ratings, endurance, spacing, maximum load	Mari Mari Mari Maria	N/A
G.2	Relays	et et tet tet s	N/A
G.2.1	General requirements	No such component	N/A



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	EN 62368	3-1 LIER SLIFE WITE WA	
Clause	Requirement – Test	Result – Remark	Verdict
and a	he my my my	LEEK TEK LIER NIT	MULL MULL
G.2.2	Overload test	Vi M. M.	N/A
G.2.3	Relay controlling connectors supply power	cet jet liet with	N/A
G.2.4	Mains relay, modified as stated in G.2	All III II	N/A
G.3	Protection Devices	y tex tex wife,	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)	WALLER WALLER WALLER WAL	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	STE WALL MAN MAN	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	ex white white white	M/A
G.3.2	Thermal links	- TEX LIER LIER O	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	Write Mur. Mur. Mur.	N/A
NLIER W	Aging hours (H)	At let let lies	ALT MELTER
	Single Fault Condition	I MULL MULL AUD	74
LIET WILL	Test Voltage (V) and Insulation Resistance ( $\Omega$ ).	A LET OF LITTLE	WILL WILL
G.3.3	PTC Thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	TE TE WITH MIN	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	RITER WHITER WHITE WHITE	N/A
G.3.5.2	Single faults conditions	Et TEX TEX STEET	N/A
G.4	Connectors	Mr. M. M.	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	My My My My	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	UNLIER WALTER WALTER WAL	N/A
G.5	Wound Components	et set set set	N/A
G.5.1	Wire insulation in wound components	r, mr, mr, m	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	MULTER WALTER WALTER	unit un N/A
G.5.1.2 b)	Construction subject to routine testing	at at at	N/A
G.5.2	Endurance test on wound components	MULL MILL MILL MILL	N/A
G.5.2.1	General test requirements	at at all of	N/A
G.5.2.2	Heat run test	inti mati mati mati	N/A



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7/1	EN 62368		. M. M.
Clause	Requirement – Test	Result – Remark	Verdict
210, 1	Time (s)	CITED WITH WALL WALL	The Mr.
	Temperature (°C)	4	
G.5.2.3	Wound Components supplied by mains	the transfer with	N/A
G.5.3	Transformers	A LEK TEK TEK	N/A
G.5.3.1	Requirements applied (IEC61204-7,	No such component	N/A
0.5.5.1	IEC61558-1/-2, and/or IEC62368-1)	No such component	TEK LITEINA
*	Position	m, m, m,	
	Method of protection	TEX LIEX OLIEX WIFE	WALL WALL
G.5.3.2	Insulation	and the second	N/A
VII. WIL	Protection from displacement of windings	ex lifex niter white	WILL MUT.
G.5.3.3	Overload test	24, 24, 2	N/A
G.5.3.3.1	Test conditions	ALTER MALTE WALTER WI	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	The state of	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	NUTER WHILE MULL MULL	N/A
G.5.4	Motors	TEX LIEK NITER WITE	N/A
G.5.4.1	General requirements	No such component	N/A
ir, Mur.	Position	y little and the	nur nur n
G.5.4.2	Test conditions	1 3	N/A
G.5.4.3	Running overload test	alter with wall wa	N/A
G.5.4.4	Locked-rotor overload test	The state of	N/A
Mr. 1	Test duration (days)	LIER WALLE WALL MALE	m m
G.5.4.5	Running overload test for d.c. motors in secondary circuits	LEK LIFEK OLIFEK MILIEK	N/A
G.5.4.5.2	Tested in the unit	111 11	N/A
Muri	Electric strength test (V)	- LIER WITE WITE W	الم — المالة _ المالة
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	TEX SEX SLIEN BY	N/A
<i>**</i>	Electric strength test (V)	ing the second	x - 18
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	LIER WHITE WHITE WHITE	N/A
G.5.4.6.2	Tested in the unit	et tet tet liet	N/A
	Maximum Temperature	Mus. Mrs. My	N/A
MALIE	Electric strength test (V)	TEX LIER LIER OF	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	White the text of	N/A
77, 7	Electric strength test (V)	uri mri mri mri	N/A



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n,	EN 62368	3-1 The with white	" "
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.7	Motors with capacitors	NIET WITE WITE WALL	N/A
G.5.4.8	Three-phase motors	at at alt all a	N/A
G.5.4.9	Series motors	the Maria August And And	N/A
TEX MIT	Operating voltage	t tex tex treit all	1017
G.6	Wire Insulation	Music Aug Aug Aug	N/A
G.6.1	General	TEL LIET ALTER MAINER	N/A
G.6.2	Solvent-based enamel wiring insulation	Mr. My All Market	N/A
G.7	Mains supply cords	ITER ALTER MITTER AMILIER	N/A
G.7.1	General requirements	No such mains supply cords	N/A
Vit Mu	Type	EK OLIEN WILL MULLENNE	'M'
Et E	Rated current (A)		t dit
In The	Cross-sectional area (mm²), (AWG)		10, _0,
G.7.2	Compliance and test method	L A LET LET	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Milliant million	N/A
G.7.3.2	Cord strain relief	TEL WILL NOTE WALL AN	N/A
G.7.3.2.1	Requirements		N/A
100	Strain relief test force (N)	Aur. Mur.	1112
G.7.3.2.2	Strain relief mechanism failure	THE THE	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	Write Aut. Aug. Aug.	1, _1,
G.7.3.2.4	Strain relief comprised of polymeric material	et tet tet tet	N/A
G.7.4	Cord Entry	Fre AND AND AND A	N/A
G.7.5	Non-detachable cord bend protection	EX TEX LIEX WILL W	N/A
G.7.5.1	Requirements	Mr. Mr. M.	N/A
G.7.5.2	Mass (g)	- TEX LIEX NLIER WITE	Write a
t et	Diameter (m)	Mr. Mr. Mr.	- t-
WILL	Temperature (°C)	LIER NITER MITER MILIE	Mr. Av.
G.7.6	Supply wiring space	an an an	N/A
G.7.6.2	Stranded wire	LIEF RITER WHITE WALTE W	N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors	EL WILL MULL AND AND	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguard against shock	WILL MULL MULL MULL	N/A
G.8.3	Safeguard against fire	at the text	N/A
G.8.3.2	Varistor overload test	VILL MUT, MUT, MUT,	N/A
G.8.3.3	Temporary overvoltage	the state of	N/A



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Classes	EN 62368		1/
Clause	Requirement – Test	Result – Remark	Verdict
G.9	Integrated Circuit (IC) Current Limiters	AUTE MUTTE MITTER AND THE	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	in my	N/A
G.9.1 c)	Supply source does not exceed 250 VA	t itel tier outer	NITE WALTER
G.9.1 d)	IC limiter output current (max. 5A)	Mr. 200 11, 1	* **
G.9.1 e)	Manufacturers' defined drift	LIEK OLIEK MLIER OM	MALL - ON
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2	LIER OLIER WHITE WALTE	N/A
G.9.4	Test Program 3		N/A
G.10	Resistors	TEL WITE WALTER WALTER	N/A
G.10.1	General requirements	No such component	N/A
G.10.2	Resistor test	White white white wi	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	WITER WHITER WHITER WHITE	N/A
G.10.3.1	General requirements	TEX ITEX LITER WITE	N/A
G.10.3.2	Voltage surge test	WIN WILL AND	N/A
G.10.3.3	Impulse test	A LEL COLLEGE	N/A
G.11	Capacitor and RC units	2 3	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	711. 22.	L N/A
G.11.3	Rules for selecting capacitors	LIER WITE MITE WALL	N/A
G.12	Optocouplers		N/A
ilek ivile	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	No such component	N/A
	Type test voltage Vini	Mur, Mur My M	
MALTE	Routine test voltage, Vini,b	TEX SEX STEX OF	ier with an
G.13	Printed boards	Mr. Mr. Mr. Mr.	N/A
G.13.1	General requirements	TEX TEX STEE STEE	N/A
G.13.2	Uncoated printed boards		N/A
G.13.3	Coated printed boards	Et LIER OLIER MITE	N/A
G.13.4	Insulation between conductors on the same inner surface	THE TEX TEX	N/A
LIEK	Compliance with cemented joint requirements (Specify construction)	me me me	H JEK NI
G.13.5	Insulation between conductors on different surfaces	with mur my	N/A



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MUL		EN 62368	3-1	
Clause	Requirement – Test	LIE WALL WALL	Result – Remark	Verdict

	MI WE WIND THE SECOND AS LET LET	it lie die no
711 - 7	Distance through insulation	N/A
INITE WILL	Number of insulation layers (pcs)	ALTER MITTER WALTER
		An an an
G.13.6	Tests on coated printed boards	anti anti an' 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	W N/A
G.14	Coating on components terminals	N/A
G.14.1	Requirements	M' M'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
G.15.3.2	Creep resistance test	N/A
G.15.3.3	Tubing and fittings compatibility test	N/A S
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)	N/A
a)	Humidity treatment in accordance with sc5.4.8  – 120 hours	W/A
b) whi	Impulse test using circuit 2 with Uc = to transient voltage	until unit un N/A un
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	N/A
C2)	Test voltage	et let let the
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	N/A
D2)	Capacitance	411 411
D3)	Resistance	LIEF ALTE PLIE OF

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



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EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
110		et liet with with whi	The Marin Marin	
H.2	Method A		N/A	
H.3	Method B	CEX TEX LITER MITE	N/A	
H.3.1	Ringing signal	My My My M	N/A	
H.3.1.1	Frequency (Hz)	THE SITES WITER	Write Muri-	
H.3.1.2	Voltage (V)	in the shift		
H.3.1.3	Cadence; time (s) and voltage (V)	aliet mile while we	ris and an	
H.3.1.4	Single fault current (mA):		et the	
H.3.2	Tripping device and monitoring voltage	LIE JALIE WALL WALL	N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	ist lifet wifet miles	N/A	
H.3.2.2	Tripping device	Mr. Mr. Mr.	N/A	
H.3.2.3	Monitoring voltage (V)		mir _ M	

Jan	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION			
MALT	General requirements	EX TEX STIER WITER WITE WILL	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	who was the rest rest	N/A
K.3	Inadvertent change of operating mode	Will Murit Mury Muse Any	N/A
K.4	Interlock safeguard override	at let let let si	N/A
K.5	Fail-safe	With My My My My	N/A
TER IN	Compliance	- Let Tex STER STER	N/A
K.6	Mechanically operated safety interlocks	in the the the	N/A
K.6.1	Endurance requirement	* TEX TEX LIER WITE.	N/A
K.6.2	Compliance and Test method	hu h	N/A
K.7	Interlock circuit isolation	TEK ITEK ALTER OLITER AN	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	W WIFE WITER WITER WITER	N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test	E WILL MULT WILL WALL	N/A
K.7.4	Electric strength test		N/A



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I WALLE	Mer, Mr. Mark	EN 62368	-1 life outer multiplication	WILL MULL
Clause	Requirement – Test	NLTE WALTE WAL	Result – Remark	Verdict

L	DISCONNECT DEVICES		N/A
L.1	General requirements	Not connected to Mains supply	N/A
L.2	Permanently connected equipment	An An An An	N/A
L.3	Parts that remain energized	THE TEXT STEEL WITE WITE	N/A
L.4	Single phase equipment	Mr. Mr. M. M.	N/A
L.5	Three-phase equipment	THE LIFE ALTER PALTER MALLE AN	N/A
L.6	Switches as disconnect devices	ar ar ar	N/A
L.7	Plugs as disconnect devices	TEX LIER NITE WITE WALL WAS	N/A
L.8	Multiple power sources	1 1 1 st 0	N/A

M-	<b>EQUIPMENT CONTAINING BATTERIES AND</b>	THEIR PROTECTION CIRCUITS	P
M.1	General requirements	WILL MILL MALL MALL	P w
M.2	Safety of batteries and their cells	The state of the s	AP O
M.2.1	Requirements	Certified coin battery	P
M.2.2	Compliance and test method (identify method)	at at at the s	P
M.3	Protection circuits	The Wife All All All All	Р
M.3.1	Requirements	of the life's	ĺΡ
M.3.2	Tests	a cult an	Р
INLIE.	- Overcharging of a rechargeable battery	THE THE LIFE	N/A
TEX	- Unintentional charging of a non-rechargeable battery	wer we are the	N/A
111 11	- Reverse charging of a rechargeable battery	Will Mary Aug My	N/A
aliek "V	- Excessive discharging rate for any battery	at at alt alt of	Р
M.3.3	Compliance	(See appended tables and Annex M and M.4)	P
M.4	Additional safeguards for equipment containing secondary lithium battery	White Mail Mail Man	N/A
M.4.1	General	TEX SITES ONLIER WITES W	N/A
M.4.2	Charging safeguards	11 21 11 11 11 11 11 11 11 11 11 11 11 1	N/A
M.4.2.1	Charging operating limits	ITEL SLIER WITE WALL WAL	N/A
M.4.2.2a)	Charging voltage, current and temperature		<del></del>
M.4.2.2 b)	Single faults in charging circuitry	ex outer white wall wall	mi_ 1
M.4.3	Fire Enclosure	in the set set	N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	MILLE MULLE MULL MANY	N/A
M.4.4.2	Preparation	LIET SLIEF WILL WALLE WA	N/A
M.4.4.3	Drop and charge/discharge function tests	1. 20. 2.	N/A



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01	EN 62368		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Clause	Requirement – Test	Result – Remark	Verdict
4/12	Drop	VILL MUTT MITT MUTT	N/A
WILL OU	Charge	ex rex tex ties	N/A
	Discharge	And And And	N/A
M.4.4.4	Charge-discharge cycle test	t TEX LIER SLIER	N/A
M.4.4.5	Result of charge-discharge cycle test	My My My	N/A
M.5	Risk of burn due to short circuit during carrying	WALLER WALLER WALLER WAL	N/A
M.5.1	Requirement	LET TEX TEX TEX	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)	ir me me m	N/A
M.6	Prevention of short circuits and protection from other effects of electric current	EX MULTER MULTER WALLER	MILTE WAY
M.6.1	Short circuits	Certified coin battery	LIEF NITEP
M.6.1.1	General requirements	MULL MULL MULL MI	Р
M.6.1.2	Test method to simulate an internal fault	Certified coin battery	PNI PNI
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	wer and any and	P
M.6.2	Leakage current (mA)	IE WALL WALL WALL	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	No NiCd battery	N/A
M.7.1	Ventilation preventing explosive gas concentration	The The still cut	N/A
M.7.2	Compliance and test method	me me me	N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries	No lead acid battery	N/A
M.8.1	General requirements	et let let liet	N/A
M.8.2	Test method	MUT. My All	N/A
M.8.2.1	General requirements	- TEX TEX STER O	N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s)	Mr. Mr. M. M.	, ,
M.8.2.3	Correction factors	TEX LIFE SLIFE WIT	E WILL AV
M.8.2.4	Calculation of distance d (mm)	Mr. Mr. Mr. And Andrews	* -0
M.9	Preventing electrolyte spillage	LIEK NITER MITER WALTER	N/A
M.9.1	Protection from electrolyte spillage	20, 20, 2	N/A
M.9.2	Tray for preventing electrolyte spillage	A WILL WILL A	N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	MILES WALTER WALTER WA	ITEX WITE P



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	EN 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
N	ELECTROCHEMICAL POTENTIALS	write write write write wa	N/A
	Metal(s) used		

1	O mer	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	
	y let	Figures O.1 to O.20 of this Annex applied	1EX- 1E

PALIER	SAFEGUARDS AGAINST ENTRY OF FOREIGN	ON OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements	No openings	N/A
P.2.2	Safeguards against entry of foreign object	ex tex stex with with	N/A
et e	Location and Dimensions (mm)	The The Table	<del></del>
P.2.3	Safeguard against the consequences of entry of foreign object	MILE WATER WATER WALLE WALLE	N/A
P.2.3.1	Safeguards against the entry of a foreign object	WHILE MUTER WHILE WHILE W	N/A
LIEK "	Openings in transportable equipment	at the text of	N/A
111 10	Transportable equipment with metalized plastic parts	The same of the	N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)	RETER MILLER MALLEY	N/A
P.3	Safeguards against spillage of internal liquids	the state of the state of	N/A
P.3.1	General requirements	KITER WILL WALL WALL WAS	N/A
P.3.2	Determination of spillage consequences	L A ST ST ST	N/A
P.3.3	Spillage safeguards	it will will and any	N/A
P.3.4	Safeguards effectiveness	at at the test	N/A
P.4	Metallized coatings and adhesive securing parts	Must me my my	N/A
P.4.2 a)	Conditioning testing	CLIEF WILL WALL WALL W	N/A
TEX	Tc (°C)	e at at at	er Ter
me in	Tr (°C)	LIFE WALTER WALL WALL WALL WALL	Any.
LIEK N	Ta (°C)		NITTE !
P.4.2 b)	Abrasion testing	MULL MULL MULL MULL	N/A
P.4.2 c)	Mechanical strength testing	. It let get	N/A

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	
Q.1	Limited power sources	N/A



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	EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
	all all the second	et all the all	whi we	
Q.1.1 a)	Inherently limited output	aler me me	N/A	
Q.1.1 b)	Impedance limited output	TEK TEK STEK SLIER SU	N/A	
TEK WIT	- 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		N/A	
Q.1.1 d)	IC current limiter complying with G.9	CLIEF WITE WALL WALL	N/A	
Q.1.2	Compliance and test method		N/A	
Q.2	Test for external circuits – paired conductor cable	WILL MILL MILL WILL WILL	N/A	
Vr. Mu	Maximum output current (A)	Ex alter mite mite wh	MUT.	
et e	Current limiting method		*	

R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General requirements	N/A
R.2	Determination of the overcurrent protective device and circuit	et intet until N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	N/A N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	et write white
TEX	Samples, material	- TEN TE TEN
11. 1	Wall thickness (mm)	Mur Mir M
TEX N	Conditioning (°C)	TEK LIEK KLIER I
# 16	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
Me	- Material not consumed completely	N/A
TEX	- Material extinguishes within 30s	N/A
111.	- No burning of layer or wrapping tissue	W N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	untilk untilk un N/A
Et 1	Samples, material	et et et
M	Wall thickness (mm)	ALL MULL AUG - MIL
- LIE	Conditioning (°C)	et let set to
W.	Test flame according to IEC 60695-11-5 with conditions as set out	N/A



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	EN 62368	3-1 the star with	
Clause	Requirement – Test	Result – Remark	Verdict
ant.	My My An An An St	LET TET TE	it all war
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure	in mil me me	N/A
MUL	Samples, material	RUTER WALTER WALTER	mr. mr. n
it the	Wall thickness (mm)	· · · · · · · · · · · · · · · · · · ·	LET SEX
m	Cheesecloth did not ignite	WITE WALL WALL ON	N/A
S.4	Flammability classification of materials	at the set of	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	er tex itex original	N/A
ر بار	Samples, material	Mr. M. M.	
MULT	Wall thickness (mm)	TEX SLIER BLIER	write wir -w
- LEX	Conditioning (test condition), (°C)	111 111 111	24 24 X
MUL	Test flame according to IEC 60695-11-20 with conditions as set out	William Mulipe Mulipe M.	N/A
MALITE W	After every test specimen was not consumed completely	TEX WILLER WILLER WILL	N/A
LIER WAL	After fifth flame application, flame extinguished within 1 min	MILIEN	MA O

T when	MECHANICAL STRENGTH TESTS	WITE WALL MALL WALL	P
T.1	General requirements	A SH TEN	PUTE
T.2	Steady force test, 10 N	ALTER WALTE WALL WALL	N/A
T.3	Steady force test, 30 N	at the left test	N/A
T.4	Steady force test, 100 N	ite Murit Aut. Mur. Al	N/A
T.5	Steady force test, 250 N	(See appended table T.5)	ALT P
T.6	Enclosure impact test	(See appended table T.6)	Р
N. INLIE	Fall test	LET TEX TEX STE	OLITE POLIT
- Si	Swing test	Mr. Mr. My My	Р
T.7	Drop test	TEX LIEX NUTER OUTER	N/A
T.8	Stress relief test	. (See appended table T.8)	, P+
T.9 🐠	Impact Test (glass)	No parts made of glass	N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance	White White White White	N/A
CLIER	Impact energy (J)	at at tet tet tet	A TEX WIFE
20,	Height (m)	Will Mur Mur Mir	2, 2,

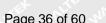


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	EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
T.10	Glass fragmentation test	neter write write water will	N/A		
T.11	Test for telescoping or rod antennas	TEK ITEK NITEK MITER MALTE	N/A		
	Torque value (Nm)	The said that the	<del>d</del>		

U	MECHANICAL STRENGTH OF CATHODI PROTECTION AGAINST THE EFECTS O	N/A MA	
U.1	General requirements	No CRTs	N/A
U.2	Compliance and test method for non- intrinsically protected CRTs	EX WILLER WHILE MILLE WHILE WHI	N/A
U.3	Protective Screen	the get get affer affer	N/A

V WALT	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		
V.1	Accessible parts of equipment	the set set set	N/A
V.2	Accessible part criterion	it with any and	N/A



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Ś	IEC62368_1B - ATTACHMENT					
	Clause	Requirement – Test	WILL MILL MAL	Result – Remark	Verdict	EX

# 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	t + Test		F	Result – Remark	C TEXT OF		Verdict
40	CENELEC	соммон мс	DIFICATI	ONS (EN)	NULL WILL	Mr. Mr.	200	
WALTER	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed "Z".					W.LT	Pali	
CONTENT	Add the following annexes:  Annex ZA (normative) Normative references to international publications with their corresponding European publications  Annex ZB (normative) Special national conditions  Annex ZC (informative) A-deviations  Annex ZD (informative) IEC and CENELEC code designations for flexible cords				LITER ON	Pres vintek nitek v		
WALTE		ne "country" i to the followin		e reference	document (IEC	62368-1:2014)	uni	Pun
	0.2.1	Note	1	Note 3	4.1.15	Note	IN IE	
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	LIEN.	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note		
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	111	
	5.7.5	Note	5.7.6.1	Note 1 and	2 10.2.1 Table 39	Note 2, 3 and 4	W.L.	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	UL EX	
LEX IN	For special	national con	ditions, se	e Annex ZB.	7/1 4/1			TEX
1 WALTER		use of certain sub oment is restricted			WHITE WHIT	WILL MA	, '' '	N/A



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				· · · · · · · · · · · · · · · · · · ·	
, with	m. m. m.	IEC62368_1B - ATT	TACHMENT	White M	Vr. Mur
Clause	Requirement – Test	WILL MULT AND	Result – Remark	*	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
4.Z1	Add the following new subclause after 4.9:	the tex the life will	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. <b>mains</b> , 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	MATER MATER MATER MATER	
	devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;	TEX MULTER WALTER MULTER WAS	
	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.	TEK WILLER WALTER WHILER WALTER	
Whitek A	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	White white whitek whitek wh	nitek wat
5.4.2.3.2.4	Add the following to the end of this subclause:	No connection to external circuit.	N/A
ite air	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	white mit will will the	WITEK
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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I THE WALTER	White will when	IEC62368 1B - ATT		WILL MULT
Clause	Requirement – Test	ALTER MALTER WALL	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:	TEK WHITEK WHITEK WHITEK	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	whitek whitek
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	EX JULIER WITER WALTER W	VILE MULLE
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	WHITEK WALTER WALTER WAL	SEX MUTER WA
	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.	INITER WHITER WHITER WHITER	MUTER MUTER
	For RS1, the dose-rate shall not exceed 1 μSv/h taking account of the background level.  NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	Multer and	TEK MULIEK W
10.6.1	Add the following paragraph to the end of the subclause:	white white with whi	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	LIEK MITEK MITEK WALTER	WALTER WALTE
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	EX MULTER MULTER MULTER	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).	WALLER WHILER WHILER WHILE	TEX UNLIES ON
	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	LIER WALTER WALTER WALTER	WALL WALTER
G.7.1	Add the following note:  NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	WAITE WALL WALL WALL WALL	N/A



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MUL	Mur Mr M	IEC62368_1B - ATT	ACHMENT	in Mur. Mur.
Clause	Requirement – Test	NLTER MALTE WAL	Result – Remark	Verdict

Clause	Requirement + Test Result – Remark	Verdict	
Bibliograph	Add the following standards:	N/A	
у	Add the following notes for the standards indicated:	20,	
	IEC 60130-9 NOTE Harmonized as EN 60130-9.	TEX LIER	
	IEC 60269-2 NOTE Harmonized as HD 60269-2.		
	IEC 60309-1 NOTE Harmonized as EN 60309-1.	et let.	
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series	WALL WAY	
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	1 1	
	IEC 60664-5 NOTE Harmonized as EN 60664-5.	nlie antil	
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	10 10	
	IEC 61508-1 NOTE Harmonized as EN 61508-1.	THE LIER	
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	Mr. Mr.	
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	et et	
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.		
	IEC 61643-1 NOTE Harmonized as EN 61643-1.		
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	I LIE WIL	
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	20, 22,	
	IEC 61643-321 NOTE Harmonized as EN 61643-321.	TEX TEX	
	IEC 61643-331 NOTE Harmonized as EN 61643-331.	mer mer	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	CENT TEXT	
4.1.15	Denmark, Finland, Norway and Sweden	N/A	
	To the end of the subclause the following is added:	iek mliek wh	
	Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	JUNIEK WHITEK	
	The marking text in the applicable countries shall be as follows:	in whi w	
	In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	ex white whi	
	In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Mur. Muri.	
	In <b>Norway</b> : "Apparatet må tilkoples jordet stikkontakt"	NLTEX WALTER	
	In <b>Sweden</b> : "Apparaten skall anslutas till jordat uttag"	TEX TEX	



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Ý	MAL	me me	IEC62368_1B - ATTACHMENT	MUT. MUT.
7	Clause	Requirement – Test	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:	AND MADE AND AND	
	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	Whitek whitek whitek whitek	
5.2.2.2	<b>Denmark</b> After the 2 <sup>nd</sup> paragraph add the following:	No high touch current measured.	N/A
	A warning (marking <b>safeguard</b> ) for high <b>touch current</b> is required if the <b>touch current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	ex writex writex writex write	





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LET LE				
MULL	my m. m.	IEC62368_1B - AT	TACHMENT	in whi war
Clause	Requirement – Test	NITE MALTE WAL	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
5.4.11.1 and Annex G	Finland and Sweden  To the end of the subclause the following is added:	TEX WHITEK WHITEK WHITEK W	N/A
	For separation of the telecommunication network from earth the following is applicable:	Whitek whitek white whi	mer m
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	MILIER WALTER WALTER	White whi
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	LIER WHITER WHITER WHITER	in the murit
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	ex whitex white wh	ek izek a
	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 wh	ME WALTER 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	CLIE WILL WALLE	t while whi
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5Kv.	LIEK WILLEK WILLEK	an itek walitek
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	EX MULTER MULTER MULTER M	LIFE WALTER
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	WHITEK WHITEK WHITEK WHI	ex writer w
	• 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;	INTEX WHITEK WHITEK WHITEK	Mr. Ex Miles
	• the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	st writes maines market	TE WILLEY W
	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.	MILIER WALTER WALTER WALTE	TEX TIES



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i, m	in the many	IEC62368_1B - ATTACHMENT	while when when
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
5.5.2.1	Norway  After the 3 <sup>rd</sup> paragraph the following is added:  Due to the IT power system used, capacitors are required to be rated for the applicable line-	TEK WHITEK WHITEK	N/A
	to-line voltage (230 V).	The Mr. In.	* *
5.5.6	Finland, Norway and Sweden  To the end of the subclause the following is added:	No such resistor used.	N/A
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipmenttype A</b> shall comply with G.10.1 and the test of G.10.2.	tier while while whiles	WILLER MUTTER
5.6.1	Denmark	1 A A	N/A
	Add to the end of the subclause	INLIER MILIE MINLIE WIN	Mr. M
	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.	Mitely whitely whitely whitely	whitek antie
	Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	THE WILLEY W	NITEY WILLEY
5.6.4.2.1	Ireland and United Kingdom  After the indent for pluggable equipment type  A, the following is added:  - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	white white white white	N/A
5.6.5.1 W	To the second paragraph the following is added:  The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:  1,25 mm² to 1,5 mm² in cross-sectional area.	MILER MILER WILER WILE	N/A
5.7.5	Denmark	et let let liet	N/A
	To the end of the subclause the following is added:  The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10	A MUTER MUTER MUTER	nitet whitek



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i' whi	Mr. M. M.	IEC62368_1B - ATTACHMENT	NUT WILL WALL
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:	TEX MULTER MULTER MULTER	N/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.	White white whitek w	ant white an
	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:	et untiet whitet untiet whitet	MULTER WHITEK
	"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	TEX MITEX WHITEX WHITE	X WILL AWILLER
	cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	white while while w	itel writer unit
	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.	EX MILE MATER MATER	MULTER MULTER
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	LIER SLIER WILER	NUTEK WUITER
	"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."	TEX MITTER MUTTER MUTTER	TEX WITEX WATE
	Translation to Swedish:	ex itex litex witex	MITE WALTER
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	Whitek whitek whitek wh	United Maries Mari



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	101010110011	011 77 77 207 77 70 00 707 0	10 ago 10 or		
IEC62368_1B - ATTACHMEN		TACHMENT	MUL. MUL		
	Clause	Requirement – Test	LIE WALL WAL	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict	
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 Ma.	THE WALLER WALLER WALLER WALLER	N/A	
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: 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	untick whitek	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	



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		10. 290 10 0.		
my my my		IEC62368_1B - ATTACHMENT		NUT, MUT
Clause	Requirement – Test	LIE, WALTE WAL	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
G.4.2	Denmark  To the end of the subclause the following is	TEX WHITEK WHITEK WHITE	N/A
	added: 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.	Whitek whitek whitek	Whitek White v
	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.	of the steet of th	TEK WILLEK WILLER
	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.	whitek whitek whitek	Writek Writek W
	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.	nitek whitek whitek w	ex write
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	Mary William	WALTER WALTER
	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	White white white	MITER NITER ON
	Justification: Heavy Current Regulations, Section 6c	LIFEK WILLER WILLER WI	TER WASE MUCH
G.4.2	United Kingdom	A A A A	N/A
	To the end of the subclause the following is added:	Autic Autic Autic	All All
	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.	Whitek Whitek Whitek W	until unit

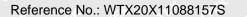


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		1/1 290 10 0.		
in in in in		IEC62368_1B - AT	TACHMENT	MUT. MUT.
Clause	Requirement – Test	LIE WALL WAL	Result – Remark	Verdict

Clause	Requirement + Test	Result – Remark	Verdict
G.7.1	United Kingdom	CEX TEX STEX STEE	N/A
	To the first paragraph the following is added:	, Mr. Mr. M.	7
	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	Whitek whitek whitek wh	inites white v
	exempted by those regulations.	lie with white whi	me m
LIEK WA	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	et liet will miles	WALTER WALTER
G.7.1	Ireland	m m t	N/A
	To the first paragraph the following is added:	LIEK NITER WITER	VII. MULL M
	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	Whitek whitek whitek	EX WILLEY WAL
G.7.2	Ireland and United Kingdom	MALTE	N/A
	To the first paragraph the following is added:		et let
	A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	MILIE WHITE WHITE WAS	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	With Marie Mari	20, 20,
10.5.2	Germany	Not such equipment.	N/A
	The following requirement applies:	ier with white whi	Mus Mis
	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.	Whitek whitek whitek wh	nitek untlek v
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	TEK WALTER WALTER	White white
	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	MUTER MITER MITER M	LIEK MITEK W







4.1.2	TABLE: List of critical	components	in mur mu	141 141	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1
PCB	JIANGXI UNIONGAIN ELECTRONICS TECHNOLOGY CO LTD	DS5	V-0, 130°C	UL 796, UL 94	UL E464601
Plastic enclosure	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	LUPOY EF- 1006F(m)	V-0, 120°C, Min. thickness: 1.0mm	UL 746, UL 94	UL E248280
Coin battery	Panasonic Corporation	CR2450	3VDC, 620mA	IEC 60086-4: 2019	DEKRA test report No.: 4367188.50
Supplementa	ary information:	at the	ALTER WITE NA	it with with	m, m

4.8.4, 4.8.5	TABLE: L	ithium coin/button cell ba	atteries mechanical tests	P	
(The follow	wing mechani	cal tests are conducted in th	ne sequence noted.)	MULT WILL	
4.8.4.2	TABLE: St	ress Relief test	Mr. All All All	P A	
Pa	art	Material	Oven Temperature (°C)	Comments	
Complete	ed sample	See table 4.1.2	70	No damage	
4.8.4.3	TABLE: Ba	attery replacement test	TEX LIE . WILL V	N JP	
Battery pa	art no		CR2450	CET TET S	
Battery Installation/withdrawal Battery Installation/Removal Cycle		Comments			
TEX	NITER INLI	E. WILL MULL MI	1, 1,	No damage	
			The mile was and	No damage	
			3 Feb Test	No damage	
			ne white will 4 will am	No damage	
			5 11	No damage	
			The second secon	No damage	
			the set of the set of	No damage	
			Vr. Mr. 1/8 M. 2	No damage	
			9° 11° 11°	No damage	
			ur ur 10 ur	No damage	
1.8.4.4	TABLE: Dro	op test	TEX TEX LIFE SLIFE MITE	Inlife JPILL	
Impac	t Area	Drop Distance	Drop No.	Observations	
JUL TO	ор	THE MITTER WALTER	EX MULTE MULTE AT LIVE WALL WE	No damage & hazard	
Si Si	de	1m Internation	THE MILE WAS MILE WAS	No damage & hazard	



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Bot	tom	LITER WHITEK 1M TEX WHITEK	unit unit 3th unit	No damage & hazard
4.8.4.5	TABLE: I	mpact	LIE WHITE MULT MULT M	Р
	cts per face	Surface tested	Impact energy (Nm)	Comments
TEK WINTO	op mili	Тор	TEL STEE 2J	No damage & hazard
y Si	de	Side Inch	at the the	No damage & hazard
Bot	tom	Bottom	ne une v2J	No damage & hazard
4.8.4.6	TABLE: 0	Crush test	te write white white will	N/A
Test p	osition	Surface tested	Crushing Force (N)	Duration force applied (s)
CENT CT	it liter	WILL MULL MULL MINE	711 - 14 (it	TEX TEX
Suppleme	entary inforn	nation:	outility with the	NOTER AND TELL

4.8.5 TABLE	: Lithium coin/button cell batterie	P P	
Test position	Surface tested	Force (N)	Duration force applied (s)
Battery compartment door cover	Bottom	30 Juniter	o Liter 10 ex
	Est TE MITE	Life Constitution of the C	<u>.</u>

5.2	TABL	E: Classification	n of electrical ene	rgy sources	et et	TEX	JEE PLIE	
5.2.2	2.2 – Steady S	tate Voltage and	Current conditions	LIE WALTE WA	r. Mur.	111, 111,		
الالا	WALLE M	Lastin (a.		t at A	Parameters	NITER INLIE	MILLE	
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	I (Apk or Arms)	Hz set	ES Class	
<i>*</i>	3Vd.c.		Normal	3Vrms	11 16	DC	LIEK OLIE	
151	1 (Powered by fully coin	•	Abnormal	LITE WILLE V	Vr AVE.	no n	ES1	
	battery)	On Ganto	Single fault –		et - et	JE J	EX OLIER	
5.2.2	2.3 - Capacitar	nce Limits	TEX SLIER IN	ie while whi	MULL	Mr. M	12	
UE	Supply	Location (e.g.		Parameters		JEK JE	alle of	
No.	Voltage	circuit designation)	Test conditions	Capacitance, r	nFs <sup>ss</sup>	Jpk (V)	ES Class	
	the Mer	-un un	+ +	THE THE STATE OF T		14 Mr.		
5.2.2	2.4 - Single Pu	Ises	Whit whi	Mr. Mr.	<i>0</i> 1.		et et	
m	Supply	Location (e.g.	_ st	Parameters			C. W.	
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class	



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	1 1	at let	Normal	Incie Tincie	mi - m	71/2	
	-NITE WALTE	MULL WALL	Abnormal	A - A	TEX - JEX	NI EL	TEN SINITE
THE STEEL STEEL SIN	ULITEK MALITEK	Single fault – SC/OC		it in	76x 7	y liet	
5.2.2	2.5 - Repetitiv	e Pulses	ret tet te	A WILL MULT	MUC	no m	70
TEX			ation (e.g.	Parameters			FO OL MA
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
	VIII WALL	Mr. My	Normal	LET - LET	JEE STE		VIII MUL
	<u>.</u>	-TEX TEX	Abnormal	V. 271	11 12	ī	A - A
	MULL	ing his	Single fault – SC/OC	iek witek	TER WALTER	White wh	MULL

Normal -

Abnormal -

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Tempera	ature measure	ements				Myr M	PILITER
LIEK WALTE	Supply voltage (V	)		3Vd.c (Powered by fully coin battery)				
et let	Ambient T <sub>min</sub> (°C)				See be	low	L at	Al .
Ambient T <sub>max</sub> (°C)			: JEX				MULL	WrMy
Maximum	Maximum measured temperature T of			111 12	T (°C	<u> </u>	TEX	Allowed
part/at:		it et un	Junit Junit was war		2	T <sub>max</sub> (°C)		
PCB near l	Ú1 W	42	30	.1	57.7	WILLEY W	Life White	130
Battery boo	dy the state	WITE WILL	29	.5 !	57.1	ī	* - "	Ref.
Plastic ecn	losure inside	in the second	29	.0 (	56.6	LIE WAL	Var.	Ref.
Plastic ecn	losure outside	LIL WALL	28	.4		A- 0	TEX	77 /
Switch butt	ton	at at	27	.5	II. M.C	MULL	mr n	77
Ambient			22	.4 !	50.0	<u> E</u>	.10 <u>1-</u> .0	EK TIER
Supplemen	tary information:	LEX N	JER N	TE" NALT	MILL	MUT 2	V 111	10
Temperatu	re T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
H TEN	LITER OLITER	المال - المال	The	1,,-		A - 0	+ <del>-</del> e+	7E*

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.

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5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics			
Penetration	n (mm)	LIEK WILLE WALL WALL	Mr. Mr. M.	
Object/ Part No./Material		Manufacturer/trad emark		
JEK OLI	White White White Whi	All - CX	et Tet Tet	CLIER
	ntary information: ended Table 4.1.2 for details.	WHITEK WHITE WHITE WA	it the text	TEX 1

5.4.1.10.3 TABLE: Ba	3.4.1.10.3 TABLE: Ball pressure test of thermoplastics					
Allowed impression dia	neter (mm) :	≤ 2 mm	Mr. M.	72		
Object/Part No./Materia	Manufacturer/trademark	Test temperature (°C)	Impression dia	ameter (mm)		
- 1	Tex Tex Tex Ini	is write Mar Mur	111 111 -	4		
Supplementary informa  * See appended Table		- NITER WITER SMITER	UNLIER WALTER	White whi		

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimur	n Cleara	inces/Cree	epage dista	nce while	WILLER N	NITEK MALT	N/A
	cl) and creepage ) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) <sup>1</sup>	Required cl (mm)	cl (mm) <sup>2</sup>	Required cr (mm)	cr (mm)
CH CLIER		^ \	XII		]		TEK	NITER- NITE

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

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  Overvoltage Category (OV):				
CEX C					
1/1/2	Pollution Degree:	t et liet di	EL WITE WITE	Mr. DV.	12
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measured	d cl (mm)
- ,4+	TEX LIEX LIEX	WILL MUT MUT	10 Tay 2	L .*	et et

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	2.4 TABLE: Clearances based on electric strength test				
Test voltag	ge applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No	
720	L A A	TEX NOTE WIT	MULL TILL MU	24. 7	



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		<u> </u>		. ~ ~	4117	~ <i>U</i> ,
Supplementary information:	Whi. W	r. Mur	211	10.	4	
Not used the alternative method to determine the clear	arances.					NITE

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE:	: Distance through insu	lation measu	rements		N/A
Distance thr insulation di		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
- whi	11/2 1/	- m - m	AL	ITEK SITER	WITE WALTE	MULT - MUL
Supplementa *: See apper	1	nation: le 4.1.2 for details.	T THE	TEX TEX	WILER WILER	NALTEK WALTER

5.4.9	TABLE: Electric strength	tests	TEX STEP WITE	N/A
Test voltaç	ge applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional	et let let	TEX WITE WALL WALL	Mr. Mr. M.	1 1 1
- WALTE	MUT, AND MUT AND	THE THE	TEX STEEL WIFE	MALTE WALL
Basic/supp	plementary:	A WILL MULL MULL	Mr. M. M.	
NO THE	ir, Mr. Mr. Mr.	TEXT TEXT	LIEK SLIEK WILLES	Write Auri
Reinforced		INTER VIOLE IN IN	70 7	at at
TI, MUT,		TEX TEX	· Je	HIL WALL OF
Routine Te	ests:	Tre Will	3 1	at let i
- WUT	Mr. M.	A JEK JEK SITE	MILL WALL	nur nur
Suppleme #: all altern	ntary information: native sources have been con	sidered.	TEX LIEK ALTER	L MITER WALTER

5.5.2.2 TABLE	: Stored disch	arge on capa	citors	LIER STEEL WI	N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
H LIEK CLIEK	nlie - mil	Mur M	- Co.		TEX TEX SITE
Supplementary info	rmation:				Wer Alexan
X-capacitors installe	ed for testing a	re:			LET TEX LIER
Bleeding resistor	rating:				in mur mur.
□ ICX:					1 1 st st
Notes:					er with white wh
A. Test Location:					10, 1,
Phase to Neutral; P	hase to Phase	; Phase to Eart	h; and/or Neu	tral to Earth	TEX LIFE OUT
B. Operating condit	tion abbreviation	ons:			MUL. MU. MI.
N - Normal operatir	ng condition (e.	g., normal ope	ration, or ope	n fuse); S –Single fault	condition

5.6.6.2	TABLE: Resistance of protective conductors and terminations	N/A
---------	---	-----





Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
711 721 7	11t 11t	WILL STATE	in in my	111 121
Supplementary information:	MULT MILL	7. T	at at A	LIER SLIER

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive	N/A or	
Supply vo	ltage		
Location	NITER WHITER WHITER WHITER	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	1 1	N/A
		CLIF OF 2 TO VICE VICE VICE VICE VICE VICE VICE VICE	N/A
		3 1	N/A
		mit whi at we we	N/A
		5 10	N/A
		1 The sur can	N/A
		L 18 10 100	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: Electrical power sources (PS) measurements for classification								
Source	Description Measurement		Max Power after 3	Max Power after 5 s*)	PS Classification				
All internal circuits	1 m 1	Power (W) :	CENT TEN	OLIER WILLER WAL	MUL! MUL				
	Normal	V <sub>A</sub> (V) :	2/15 2/11	- L	PS1 (declared)				
		I <sub>A</sub> (A) :	t itel liter	LIFE MALL WALL	Mr. Mr.				

### Supplementary Information:

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

SC=Short Circuit, OC=Open Circuit

6.2.3.1	Table: Determin	Table: Determination of Potential Ignition Sources (Arcing PIS)			
WAL	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V <sub>p</sub> x I <sub>rms</sub> )	Arcing PIS? Yes / No



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		100			
	/		110 411	~//	
. 6.5					

#### Supplementary information:

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

6.2.3.2 Table: Dete	rmination of Pot	ential Ignition S	Sources (Resis	stive PIS)	N/A
Circuit Location (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
LIER WILE WILE	VII NOT M	7. 74	- J	et - et	LIEN CLIER

#### Supplementary Information:

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

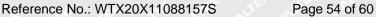
If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

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

8.5.5	TABLE: High Pressure Lamp	N/A W	
Description	n jir jir , kir	Values	Energy Source Classification
Lamp type		TEX ITE	The Will Mill Mill Mill
Manufactu	ırer:	ne me m	1 1 1 - H
Cat no		TEX TEX SUIT	it with while with while
Pressure (cold) (MPa):		241 241	MS_
Pressure (	(operating) (MPa):	EX SLIER WITE	MS_ W
Operating	time (minutes):	201 201	at the state of
Explosion	method:	ALTER MITE N	Will Mur Aug Aug
Max partic	cle length escaping enclosure (mm):	20, 2, 2	MS_ MS_
Max particle length beyond 1 m (mm):		WITER WITE WAL	MS_ MS_
Overall res	sult:		t tex tex tree atter
Suppleme	ntary information:	TEN NITE NALL	Mur. Mr. Au. Au.

B.2.5	TA	BLE: Input	test	LIER	NITE NALTE	WILL	in in	70	Р
U (V)	nn'	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condit	ion/status
3Vd.c (Powere fully co	d by	0.003	onlite v	0.009	WILLER W	TEK WALTE	rantiek v		um normal eration
batter	430	WILL	The MUT			+ +	ill.	TEX IT	







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: A	onormal ope	erating con	dition t	ests			n P
Ambient tem	perature (°C	): " " " " " " " " " " " " " " " " " " "	2, 4	See below	et Jet o			
Power source	e for EUT: M	lanufacturer,	See cover page	is —				
Component No. Supply voltage, (V) Test time mo. Fuse current (A)					T-couple	Temp. (°C)	Observation	
Coin battery	Reverse polarity	3Vd.c. (Powered by fully coin battery)	10min	ovnijek Nijek	whitek w	TEK WALTER	nis <mark>.</mark> Tek No	Battery current: 0A. Unit doesn't operation. No damaged, no hazards.

Supplementary information:

- 1) SC: short circuit, OL: overload, OC: open circuit; CD: components damaged;
- 2) No ignition during and after all tests.

B.4	TABLE: Fau	Ilt condition te	ests					MUL	N.B.	
Ambient tem	Ambient temperature (°C)									
Power source	e for EUT: M	lanufacturer, m	nodel/type, o	output ra	ting See	cover pag	e for det	ails	/6 <del>-</del> 4	
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Ob	servation	
Coin battery + to	SC MALTER WA	3Vd.c. (Powered by fully coin battery)	10min	INLIE V SEK VI SEK VI	INCTO TONICE  STEP WALTER  MALTER  MAL	Whitek Whitek	WALTEX W	0.592 Unit s imme recov	hut down diately, erable. amaged, no	
C1 TELL WALTER	ELT SCALLE	3Vd.c. (Powered by fully coin battery)	10min	diversity of	MULIER MULI	TEK UNITE WILLE	EK VINLIEK	0A. Unit s imme recov	ry current: thut down diately, erable. amaged, no ds.	

Supplementary information:

- 1) SC: short circuit, OL: overload, OC: open circuit; CD: components damaged;
- 2) No ignition during and after all tests.



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Annex M	TABLE:	Batteries						20,	Р
The tests of Annex M are applicable only when appropriate battery data is not available									P
Is it possible to install the battery in a reverse polarity position?									Р
INLIE WA	Non-re	echargeab	e batteries		,e⊁ F	Rechargea	ble batter	ies	MILITE
	Discharging		Un-	Cha	rging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas.	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas.	Manuf. Specs.
Max. current during normal condition	3mA	EK WALTE	untity un	iek whi	MILE MILEK	Whitek	unlifek unlifek	est wat	i i white is
Max. current during fault condition	592mA (Coin battery + to - short circuit)	white w	TEX MILTER	WALLEY WA	Nitek Wit	TEK MU MUTE	Whitek	MULTER OF	antife un
NALTE	ALT. AL	T. MUT.	1/1, 1,		* (6*	- TEX	LIEK	ALTER AN	TENNLI
Test results	s: , t	EX TEX	LIEK NI	IET WILL	MUL	m.	20, 20		Verdict
- Chemical	leaks	M	1/1, 14,	et	(Et	TEX	TEX OU	ie anti	NP.
- Explosion	of the bat	tery	THE NAME OF THE PARTY OF THE PA	Val.	112	ne m			PL
- Emission of flame or expulsion of molten metal							MILIEN.	WL B W	
- Electric strength tests of equipment after completion of tests							N/A		

	able: <i>A</i>				quipment containing secondary lithium			
Battery/Cell No.		Test conditions		Measurements				Observation
				U	I (A)	I (A) Temp (C)		ALK SEX
Norma		Normal	LET LIET W		Inlie - Inlie	MUL	- m	1/1, - 1/1
H LIEH OLIFER AND		Abnormal		4.	* - *	, Et	<u>,                                  </u>	LIE <u>k</u> N
S		Single fault –	* .J.	N. T.E.	an'it water	ANT	-2/1/2	111 - 111
Supplementar	y Inforr	nation:	14,		at at	TEX	TEX	SLIFE OLIFE
Battery identification			Observation		Charging at T <sub>highest</sub> (°C)		Observation	
1/1	The same of		THE THE OUT		" Intit "White Mile		" " " " " " " " " " " " " " " " " " "	
Supplementar	y Inforr	mation:	10 11	7,		L 1	+ 1	A LEX



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Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)  N/A						
Note: Mea	sured UOC (V) with	all load circuits d	isconnected:	IE WILL MY	AUT A	11. 11.	
Output Circuit	Components	U <sub>oc</sub> (V)	I <sub>sc</sub> (A)		S (VA)		
			Meas.	Limit	Meas.	Limit	
.E* .1°	ALTE - MIT	Vr. 710.	'	48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	

T.2, T.3, T.4, T.5	TABLE: Steady force test					
Part/Locati on	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	
Enclosure	Plastic	See table 4.1.2	250	5 State of the same	Enclosure remained intact, no crack/opening developed.	

rial Thickness	Vertical	Observation
(mm)	distance (mm)	COOST VALION
tic See table 4.1.2	1300	Enclosure remained intact, no crack/opening developed
		tic See table 4.1.2 1300

T.7	TABLE: Drop tests	5	et college outle more many on the	N/A		
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation		
الد - باد	- Let - Let	LIEN - NITE	Whi Aur	in in in	×	
Supplement	tary information:	1, 4,	et et	THE STEE WITE WITE WILL	ال	

T.8	TABLE: Stress reli	ef test	- TEX TE	ALTER MITE	White Mark Burn
Part/Locatio	n Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Completed equipment		See table 4.1.2	70	7	No shrinkage or distortion.
Supplementa	ary information:	TILE MULE M	20, 70	1 4	et set set s

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# **Photo Documentation**

Model: WRS-R02

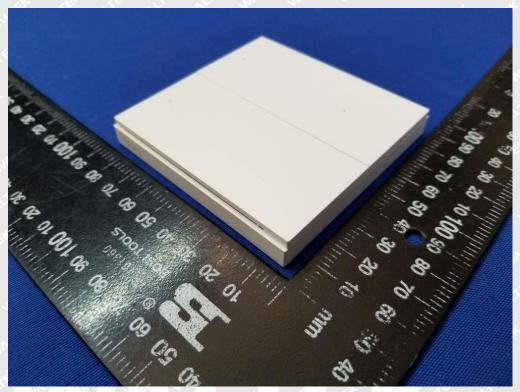


Photo 1

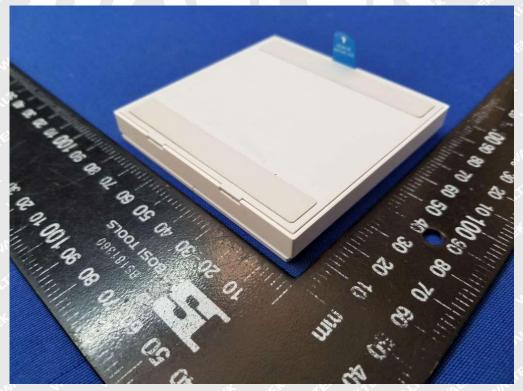


Photo 2

Reference No.: WTX20X11088157S



# **Photo Documentation**

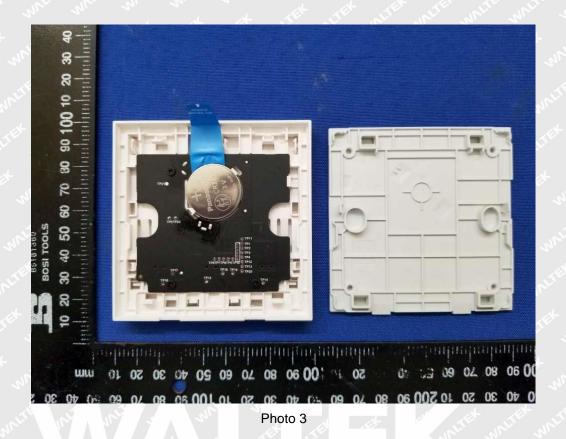




Photo 4

Reference No.: WTX20X11088157S



# **Photo Documentation**

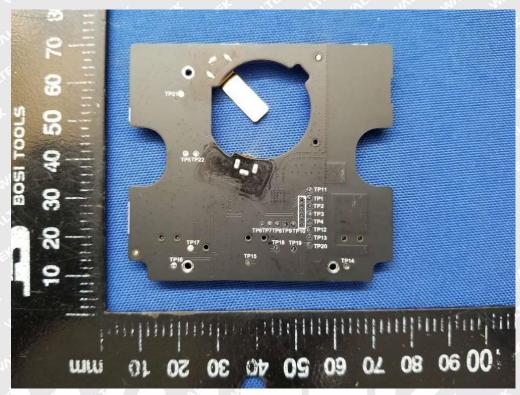


Photo 5

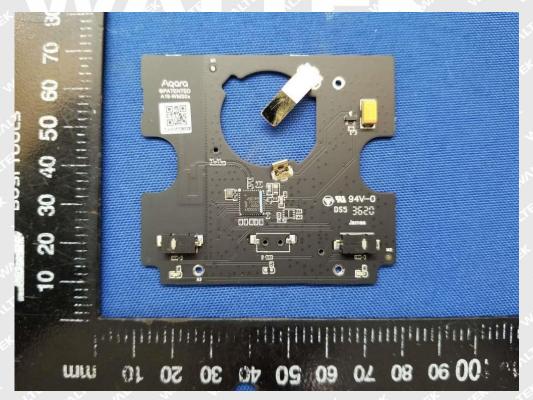


Photo 6

Reference No.: WTX20X11088157S Pag



# **Photo Documentation**



Photo 7

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