

## **TEST REPORT**

Test Report No.....: WTH22H12245530Y

Applicant.....: : Shenzhen QM Smart Panlee Technology Co., Ltd.

Valley, Nanshan District, Shenzhen

Manufacturer .....: Shenzhen QM Smart Panlee Technology Co., Ltd.

Address....... Room 805, Block A, Building 6, Shenzhen International Innovation

Valley, Nanshan District, Shenzhen

Product Name..... : PANLEE SC01 Plus

**Standards.....** : EN62368-1:2014

Date of Receipt sample..... : 2022-12-06

Date of Issue..... 2023-02-08

Test Report Form No......: WTH\_IEC62368\_1D

Test Result..... Pass

#### Prepared By:

#### Shenzhen Hongcai Testing Technology Co., Ltd.

Address: Building B, Tianji Industrial Park, 1/F. & 2/F. & 3/F., No.30-9, Laiyin Road, Xinsheng Community,

Longgang Subdistrict, Longgang District, Shenzhen, Guangdopg, Chinag Ten

Tel: +86-0755-84616666 Fax: +86-0755-89594380 Email: hongoai@ijet-test.com

Tested by:

700

Compiled by:

Zoe Mo / Test Engineer

Jasen Huang / Project Engineer

Jasen Huang

Toby Zhang / Manager

Approved換水有限公司



Report No. WTH22H12245530Y Page 2 of 61

Test item description:	PANLEE SC01 Plus
Trade Mark:	N/A LET THE STEEL WITH WALL A
Model/Type reference:	ZX3D50CE08S-USRC-4832
Ratings:	Input: 5V==5W

#### List of Attachments (including a total number of pages in each attachment):

-Attachment No.1: European Group Differences And National Differences(10 pages)

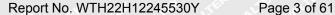
-Attachment No.2: Product photos (4 pages)	The state of the s	
Summary of testing:		
Tests performed (name of test and test clause):	Testing location:	
EN 62368-1:2014+A11:2017	Shenzhen Hongcai Testing Technology Co., Ltd. Building B, Tianji Industrial Park, 1/F. & 2/F. & 3/F., No.30-9, Laiyin Road, Xinsheng Community, Longgang Subdistrict, Longgang District, Shenzhen, Guangdong, China	
	of text multex multex multex multex multex	
	I's altest miles whites whites white w	

**Summary of compliance with National Differences:** 

List of countries addressed

**EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES** 

☑ The product fulfils the requirements of EN 62368-1:2014(Second Edition)+A11:2017.





#### Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

PANLEE SC01 Plus

Model: ZX3D50CE08S-USRC-4832

Input:5V == 5W

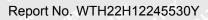
SEHNZHEN PANLEE TECHNOLOGY CO., LTD

RoHs FC CE

#### Remark:

- The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
- Above information was labelled or silk-screened on rear enclosure.
- The CE mark and WEEE symbol (if any) should be at least 5.0mm and 7.0mm respectively in height. The model name in above marking plate can be replaced by others listed in this report.

As declared by the applicant the authorized EEA representative or importer was not decided at the time of application, but will be marked on the products before placing them on the market.







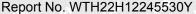
TEST ITEM PARTICULARS:			
Classification of use by:	<ul> <li>☑ Ordinary person</li> <li>☐ Instructed person</li> <li>☐ Skilled person</li> <li>☑ Children likely to be present</li> </ul>		
Supply Connection:	□ AC Mains □ DC Mains □ External Circuit - not Mains connected - □ ES1 □ ES2 □ ES3		
Supply % Tolerance:	□ +10%/-10% □ +20%/-15% □ +%/% ☑ None		
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ mating connector</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: Supplied by external</li> <li>5Vd.c. power supply</li> </ul>		
Considered current rating of protective device as part of building or equipment installation:	N/A STEEL ST		
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: Supplied by external 5Vd.c. power supply		
Class of equipment:	□ Class I □ Class II ⊠ Class III     □ Class II with functional earthing     □ Not classifed		
Access location:	☐ restricted access location ☐ N/A		
Pollution degree (PD):	□ PD 1		
Manufacturer's specified maxium operating ambient:	35°C		
IP protection class:			
Power Systems	<ul><li>□ TN</li><li>□ TT</li><li>□ IT V <sub>L-L;</sub></li><li>□ dc mains</li><li>□ N/A</li></ul>		
Altitude during operation (m):	⊠ 2000 m or less □ m		
Altitude of test laboratory (m):	⊠ 2000 m or less □ m		
Mass of equipment (kg)	⊠0.052_kg		

Report No.	WTH22H12245530Y	

	杰		7	9
£	V	V	4	١
	•	V		

Report No. WTH22H12245530Y Page 5 of	61 111 111 111
POSSIBLE TEST CASE VERDICTS:	are me m m
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	
- test object does not meet the requirement:	
GENERAL REMARKS:	- itek alter outle unit wall was
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended throughout this report a $\square$ comma $I \boxtimes$ point is un	to the report.
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
The application for obtaining a Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☑ Not applicable
When differences exist; they shall be identified in t	he General product information section.
Name and address of factory (ies):	Shenzhen QM Smart Panlee Technology Co., Ltd. Room 805, Block A, Building 6, Shenzhen International Innovation Valley, Nanshan District, Shenzhen
GENERAL PRODUCT INFORMATION:	
Product Description –	Mr. An An A
	1 Plus it can be supplied by external 5Vdc power source
2. The maximum ambient temperature specified by m	anufacturer is 35°C.
Model Differences –N/A	
Additional application considerations – (Consider	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):

(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) ES1		
DC input circuit			
Internal circuit	ES1 ET LITE OUT OF THE TOTAL THE TOT		

#### Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS

Corresponding classification (PS)

DC input circuit

PS1

Internal circuit

PS1

#### Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical		
tet	the test of the state of		

#### Mechanically-caused injury (Clause 8)

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

Source of kinetic/mechanical energy	Corresponding classification (MS)		
Sharp edges and Corners	MS1 MS1		
Equipment mass	MS1		

#### Thermal burn injury (Clause 9)

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

Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
External enclosure	TS1 un un un un

#### Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.)

Example: DVD – Class 1 Laser Product

RS1

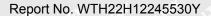
Type of radiation	Corresponding classification (RS)
THE THE STEEL WITCH MITTER WITCH AND AND	The set set set set with



Report No. WTH22H12245530Y	Page 7 of 61	1,,	
	ENERGY SOURCE D	IAGRAM	
Indicate which energy sources are inclu	ded in the energy source	e diagram.	Insert diagram below
it were my my my		TEX :	TER STEE WILL MALL WALL W
	TER STEEL WITH A	ur, au	70
Refer to ENERGY SOURCE II	NDENTIFICATION ANI	D CLASSIF	FICATION TABLE for DETAIL
⊠ ES	⊠ PS ⋈ MS	⊠ TS	□ RS 4 At At At
			Life original with the

# AND THE REPORT OF THE PARTY OF







Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part	Energy Source		Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person	ES1: DC input circuit	N/A	N/A	N/A	
6.1	Electrically-caused fire				
Material part	Energy Source		Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Enclosure and PCB	PS1:DC input circuit	JIN/A	N/A	N/A	
7.1	Injury caused by hazardous subs	tances			
Body Part	Energy Source		Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A ciff mill m	N/A	N/A	N/A	
8.1	Mechanically-caused injury				
Body Part	Energy Source		Safeguards	ırds	
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary person	MS1: Sharp edges and Corners	N/A	N/A	N/A	
Ordinary person	MS1: Equipment mass (0.052kg)	N/A	N/A	N/A	
9.1	Thermal Burn				
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary person	TS1: External enclosure	N/A	N/A	N/A	
10.1	Radiation	har wante			
Body Part	Energy Source		Safeguards		
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
Ordinary	RS1: LED used for indicating light	N/A	N/A W	N/A	

#### Supplementary Information:

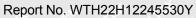
- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault



## Page 9 of 61

Result - Remark	Verdict
	Result - Remark

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	White White White white	N. B.
4.1.2	Use of components	TEX STEX WITE WITE	W PIL
4.1.3	Equipment design and construction	Mr. Mr. Mr.	+ P
4.1.15	Markings and instructions	(See Annex F)	WP.
4.4.4	Safeguard robustness	10 1 1 2 t	N/A
4.4.4.2	Steady force tests	(See Annex T.4, T.5)	N/A
4.4.4.3	Drop tests		N/A
4.4.4.4	Impact tests	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	(See Annex T.3)	N/A
4.4.4.6	Glass Impact tests:	(See Annex T.9, Annex U)	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	N/A
4.4.4.8	Air comprising a safeguard:	(See Annex T)	N/A
4.4.4.9	Accessibility and safeguard effectiveness	the write with white	N/A
4.5	Explosion	THE THE	N/A
4.6	Fixing of conductors	The Maria Maria	N/A
4.6.1	Fix conductors not to defeat a safeguard	t Tel	N/A
4.6.2	10 N force test applied to	WILL MULL MULL AND A	N/A
4.7	Equipment for direct insertion into mains socket - outlets	THE MITES MITES WALTER WAY	N/A
4.7.2	Mains plug part complies with the relevant standard	t stet wifet writer water	N/A
4.7.3	Torque (Nm)	141 An	N/A
4.8	Products containing coin/button cell batteries	SITE MITE WALLE WALLE	N/A
4.8.2	Instructional safeguard	an an at the	N/A
4.8.3	Battery Compartment Construction	LIER WILL MILL MILL MILL	N/A
et whilet	Means to reduce the possibility of children removing the battery	Et stet with with our	et —
4.8.4	Battery Compartment Mechanical Tests	(See Table 4.8.4)	N/A
4.8.5	Battery Accessibility	LIER CLIER WILL MILE	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	(See Annex P)	N/A

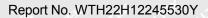




EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5	ELECTRICALLY-CAUSED INJURY		Р	
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P	
5.2.2	ES1, ES2 and ES3 limits	THE THE THE	A P	
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р	
5.2.2.3	Capacitance limits:	(See appended table 5.2)	N/A	
5.2.2.4	Single pulse limits	(See appended table 5.2)	N/A	
5.2.2.5	Limits for repetitive pulses:	(See appended table 5.2)	N/A	
5.2.2.6	Ringing signals:	(See Annex H)	N/A	
5.2.2.7	Audio signals:	(See Clause E.1)	N/A	
5.3	Protection against electrical energy sources	"Mrit Mri Mri Mri V	N/A	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	NITER WILER WHITER WHITER WA	N/A	
5.3.2.1	Accessibility to electrical energy sources and safeguards	TEX SIEK WITEK WITEK WITE	N/A	
5.3.2.2	Contact requirements	The state of	N/A	
MULL	a) Test with test probe from Annex V	Not contact a bare internal conductive part.	N/A	
WITE	b) Electric strength test potential (V):	THE WITE WITE W	N/A	
, t	c) Air gap (mm):	7	N/A	
5.3.2.4	Terminals for connecting stripped wire	LIE SLIE WILL WALL WALL	N/A	
5.4	Insulation materials and requirements	in the state of th	P	
5.4.1.2	Properties of insulating material	LIER WITE WHITE WALL WALL	N/A	
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	N/A	
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	P	
5.4.1.5	Pollution degree	LIET NITER WITER WITE W	_	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	et let let out	N/A	
5.4.1.5.3	Thermal cycling	and the said	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	Et JEK WIEK WIEK WILE	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	The My My And	N/A	
5.4.1.8	Determination of working voltage	LIER OLIER WILL MULTER	N/A	
5.4.1.9	Insulating surfaces	The The Tay	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	WHILE MULTER MULTER MULTER MAN	N/A	
5.4.1.10.2	Vicat softening temperature:	(See appended table 5.4.1.10.2)	N/A	
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	N/A	

Page 10 of 61





				7	7
	۹	7	V	Я	٩
V		<b>)</b>	V	9	
•		-			

EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5.4.2	Clearances	The will such the sure	N/A	
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A	
5.4.2.3	Determining clearance using required withstand voltage:	(See appended table 5.4.2.3)	N/A	
₹, ~	a) a.c. mains transient voltage:	My My My My In In	_	
ALTE MALT	b) d.c. mains transient voltage:	TEX LIEX OLIER MITE MITE	_	
at at	c) external circuit transient voltage:	Tur Tur	_	
WALT	d) transient voltage determined by measurement	TEX WHITE WHITE WHITE WHITE	_	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A	
5.4.2.5	Multiplication factors for clearances and test voltages:	<2000m	N/A	
5.4.3	Creepage distances	(See appended table 5.4.3)	N/A	
5.4.3.1	General	The Multiplication and and	N/A	
5.4.3.3	Material Group	Material group IIIb is assumed to be used	_	
5.4.4	Solid insulation	it it	N/A	
5.4.4.2	Minimum distance through insulation:	(See appended table5.4.4.2)	N/A	
5.4.4.3	Insulation compound forming solid insulation	the state of	N/A	
5.4.4.4	Solid insulation in semiconductor devices	With Muli Man Man Mile	N/A	
5.4.4.5	Cemented joints	at let let liet liet	N/A	
5.4.4.6	Thin sheet material	in mir mer mer mir	N/A	
5.4.4.6.1	General requirements	t et tet tet tet stet	N/A	
5.4.4.6.2	Separable thin sheet material	mer mer mer m	N/A	
INLIER NA	Number of layers (pcs)	TEX TEX STEEL STEEL STEEL STEEL	N/A	
5.4.4.6.3	Non-separable thin sheet material	m m m	N/A	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A	
5.4.4.6.5	Mandrel test	A SER THE THE STEEL	N/A	
5.4.4.7	Solid insulation in wound components	Muri Mr. Mr. Mr.	N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz	(See appended Table 5.4.4.9)	N/A	
5.4.5	Antenna terminal insulation	Mer Mr Mr Mr Mr	N/A	
5.4.5.1	General	TEK ITEK LITEK KLITER INLI	N/A	
5.4.5.2	Voltage surge test	We we my my my	N/A	
TE JOLIE	Insulation resistance (MΩ):	THE THE THE WITE WITE	_	



<u> </u>		har the the the		
Clause	Requirement + Test	Result - Remark	Verdic	
5.4.6	Insulation of internal wire as part of supplementary safeguard	(See appended table 5.4.4.2)	N/A	
5.4.7	Tests for semiconductor components and for cemented joints	Me Me The Tex	N/A	
5.4.8	Humidity conditioning	White milit was well an	N/A	
LIEK SLIV	Relative humidity (%):	at let tet till stil	_	
(1)	Temperature (°C):	the sure sure sure	_	
EK NITES	Duration (h):	et tet tet atter atter	_	
5.4.9	Electric strength test:	(See appended table 5.4.9)	N/A	
5.4.9.1	Test procedure for a solid insulation type test	- TEN LIER NITER WITER	N/A	
5.4.9.2	Test procedure for routine tests	m m m	N/A	
5.4.10	Protection against transient voltages between external circuit	No transient voltage from external circuit	N/A	
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A	
5.4.10.2	Test methods	The same of	N/A	
5.4.10.2.1	General	H ITEX STEEL WITE WITE	N/A	
5.4.10.2.2	Impulse test:	(See appended table 5.4.9)	N/A	
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	N/A	
5.4.11	Insulation between external circuits and earthed circuitry:	(See appended table 5.4.9)	N/A	
5.4.11.1	Exceptions to separation between external circuits and earth	int with the lifet lifet	N/A	
5.4.11.2	Requirements	it must mer my	N/A	
CLIER	Rated operating voltage U <sub>op</sub> (V):	t get get light wifer	_	
70. 1	Nominal voltage U <sub>peak</sub> (V):	Mer Mer Mr. M.	_	
INLIE WA	Max increase due to variation U <sub>sp</sub>	TEX LIEX OLIER WITH M	_	
× 1	Max increase due to ageing ΔUsa:	me me m	_	
LIE	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$ .	THE STEE STEE SINTE SUITE	_	
5.5	Components as safeguards		ZEX.	
5.5.1	General	Et NITER WITE WALL WALL	N/A	
5.5.2	Capacitors and RC units		N/A	
5.5.2.1	General requirement	WITE WITE WILL MALL W	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	N/A	
5.5.3	Transformers	(See Annex G.5.3)	N/A	
5.5.4	Optocouplers	(See sub-clause 5.4 or Annex G.12)	N/A	



Page 13 of 61

EN62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
5.5.5	Relays	(See Annex G.2)	N/A		
5.5.6	Resistors	(See Annex G.10)	N/A		
5.5.7	SPD's	(See Annex G.8)	N/A		
5.5.7.1	Use of an SPD connected to reliable earthing	OLIER WITE WALLE WALL	N/A		
5.5.7.2	Use of an SPD between mains and protective earth	THE STIFE STIFE MITTER SU	N/A		
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A		
5.6	Protective conductor	is mer me me me	N/A		
5.6.2	Requirement for protective conductors	TEX LIER SLIER MITE	N/A		
5.6.2.1	General requirements	Mr. Mr. M. M.	N/A		
5.6.2.2	Colour of insulation	ITEK SLIER WITER WITER	N/A		
5.6.3	Requirement for protective earthing conductors	Mr. Mr. D.	N/A		
LIE WALTE	Protective earthing conductor size (mm²):	TER STEE WILL WA	_		
5.6.4	Requirement for protective bonding conductors	The same of the same of	N/A		
5.6.4.1	Protective bonding conductors	EX OLIER WILL MULTER WALLE	N/A		
LEX.	Protective bonding conductor size (mm²):	The set			
Mr. M	Protective current rating (A)	White white	<i>z</i> <sub>n</sub>		
5.6.4.3	Current limiting and overcurrent protective devices	THE CHIEF WHITE W	N/A		
5.6.5	Terminals for protective conductors		N/A		
5.6.5.1	Requirement	LET WITE WALL WALL WALL	N/A		
* WATER A	Conductor size (mm²), nominal thread diameter (mm):	A STEEL WITH WITH WITH	N/A		
5.6.5.2	Corrosion	Any Any As Cit	N/A		
5.6.6	Resistance of the protective system	ALTER MITER WALTE WALLY	N/A		
5.6.6.1	Requirements	Dir Ch	N/A		
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	N/A		
5.6.7	Reliable earthing		N/A		
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A		
5.7.2	Measuring devices and networks	the set set	N/A		
5.7.2.1	Measurement of touch current	MULL AND MULL AND	N/A		
5.7.2.2	Measurement of prospective touch voltage	et et tet tet	N/A		
5.7.3	Equipment set-up, supply connections and earth connections	with any any any and	N/A		
* "hu	System of interconnected equipment (separate connections/single connection)	The write will war with	_		



## Page 14 of 61

n	EN62368-1	are are all a	
Clause	Requirement + Test	Result - Remark	Verdict
" ML	THE STATE OF THE STATE OF	The wife was well and	10,
t Wiley	Multiple connections to mains (one connection at a time/simultaneous connections)	of the the state wife	_
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current	TEX LIEX NITER OUTER	N/A
	Supply Voltage (V)	Mus. Au. Au.	_
NITE WALL	Measured current (mA)	ITEX SLIER WITER WALTER WI	n –
et et	Instructional Safeguard	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	THE WALTER WALTER WALTER WALTER	N/A
5.7.6.1	Touch current from coaxial cables	TEX SLIER WITER WITER	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	the tex tex stex	N/A
5.7.7	Summation of touch currents from external circuits	unit with the text	N/A
it ist	a) Equipment with earthed external circuits Measured current (mA)	THE MUTTER MALL MALL WITH	N/A
MULL	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	H WALTER WALTE WALL WALL	N/A

6	ELECTRICALLY- CAUSED FIRE		
6.2	Classification of power sources (PS) and potential i	gnition sources (PIS)	, NP
6.2.2	Power source circuit classifications		P.
6.2.2.1	General	TEX WITE WILL MALL	Mu B M
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	AP (
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	Р
6.2.2.4	PS1	(See appended table 6.2.2)	Р
6.2.2.5	PS2	(See appended table 6.2.2)	- N/A
6.2.2.6	PS3	(See appended table 6.2.2)	N/A
6.2.3	Classification of potential ignition sources	A A A A	N/A
6.2.3.1	Arcing PIS:	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and	d abnormal operating conditions	N/A
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	N/A
6.3.1 (b)	Combustible materials outside fire enclosure	TEX LIEX OLIER WITE WALL	N/A
6.4	Safeguards against fire under single fault conditions	S THE STATE OF THE	Р



Page 15 of 61

Clause	Doguiroment + Teet	Result - Remark	Verdic
Clause	Requirement + Test	Result - Remark	verdic
6.4.1	Safeguard Method	AND	N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	MALTER WALTE WALTE WALL	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Whitek whitek whiteh whiteh w	N/A
6.4.3.1	General	IN LET TEX SEX SEX	N/A
6.4.3.2	Supplementary Safeguards	TI MIT MUT MY MI	N/A
EX WALTER	Special conditions if conductors on printed boards are opened or peeled	SEX MITEL MILIER WHITE WHITE	N/A
6.4.3.3	Single Fault Conditions:	(See table B.4)	N/A
Mr. 1	Special conditions for temperature limited by fuse	MULL MULL MULL MULL	N/A
6.4.4	Control of fire spread in PS1 circuits	at let tet tet .	P.C
6.4.5	Control of fire spread in PS2 circuits	WILL AUT AUT AU AU	N/A
6.4.5.2	Supplementary safeguards:	Be mounted on min. V-1 class material printed boards.	N/A
6.4.6	Control of fire spread in PS3 circuit	Fire enclosure used and be mounted on min. V-1 class material printed boards	N/A
6.4.7	Separation of combustible materials from a PIS	LET THE MITTER	N/A
6.4.7.1	General	(See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance	TE LIE SLIFE WITE ON	N/A
6.4.7.3	Separation by a fire barrier	W. M. M. A.	N/A
6.4.8	Fire enclosures and fire barriers	THE STEEL WITE MITE WALL	N/A
6.4.8.1	Fire enclosure and fire barrier material properties	(See appended table 4.1.2)	N/A
6.4.8.2.1	Requirements for a fire barrier	LIER WITE WALL WALL	N/A
6.4.8.2.2	Requirements for a fire enclosure	The state of the s	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	MULTER MULTE MULT MULT M	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No Fire enclosure openings	N/A
6.4.8.3.2	Fire barrier dimensions	10 T 7 1	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm):	EL WHITEL WHITE WHITE WHI	N/A
WILLE W	Needle Flame test	TEX LIER WITE WITE	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):	THE THE STEEL STEEL STEEL STEEL STEEL	N/A
iek iiek	Flammability tests for the bottom of a fire enclosure:	incit with win with the	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	LIE WALL WALL WALL WALL	N/A



## Page 16 of 61

	EN62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	of the text text the suit	N/A
6.5	Internal and external wiring	Mus Me Me	N/A
6.5.1	Requirements	TEX TEX STEEL WITE	N/A
6.5.2	Cross-sectional area (mm2):	Mr. Mr. M. M.	_
6.5.3	Requirements for interconnection to building wiring	(See Annex Q.)	N/A
6.6	Safeguards against fire due to connection to additional equipment	THE WALTER WALTER WALTER WAL	N/A
WALTER	External port limited to PS2 or complies with Clause Q.1	ALTER WILLER WHITER WHITER	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	et let let liet	N/A
7.3	Ozone exposure	The Maria Angel Angel	N/A
7.4	Use of personal safeguards (PPE)	EX TEX TEX STEEL	N/A
- J.	Personal safeguards and instructions	Mr. Mr. M. M.	
7.5	Use of instructional safeguards and instructions	ALL PROPERTY OF THE PROPERTY O	N/A
*	Instructional safeguard (ISO 7010):		_
7.6	Batteries:	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		n b n
8.1	General	the state of	Р
8.2	Mechanical energy source classifications	MS1(0.052kg)	A <sub>1</sub> P <sub>1</sub>
8.3	Safeguards against mechanical energy sources	at at all all	N/A
8.4	Safeguards against parts with sharp edges and corners	MULL MILL MILL MILL WITH	N/A
8.4.1	Safeguards	LIER WILL WHILE MALL WALL	N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	The water water was	N/A
8.5.2	Instructional Safeguard:	Y alter outer walter walter	4 —
8.5.4	Special categories of equipment comprising moving parts	TEX STEX STEX WIFE W	N/A
8.5.4.1	Large data storage equipment	August Au	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	TEX WHITE WHITE WHITE WALL	N/A



EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A	
8.5.4.2.2	Instructional safeguards against moving parts	I's alter outer antition water	N/A	
et	Instructional Safeguard:	The state of the s	_	
8.5.4.2.3	Disconnection from the supply	WITE WITE MILLE MILL	N/A	
8.5.4.2.4	Probe type and force (N):	the state of	N/A	
8.5.5	High Pressure Lamps	HITE WALL MALL MALL WIT	N/A	
8.5.5.1	Energy Source Classification	at let let let life	N/A	
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A	
8.6	Stability	- TEX TEX LITER SLITER	N/A	
8.6.1	Product classification	Mur Mr My And	N/A	
WILL WA	Instructional Safeguard;	Mentioned in user manual	N	
8.6.2	Static stability	My Aug Aug	N/A	
8.6.2.2	Static stability test	LIER SLIEF WILL WALLE WAL	N/A	
y let	Applied Force		<u> </u>	
8.6.2.3	Downward Force Test	THE MILE WALL WALL WALL	N/A	
8.6.3	Relocation stability test	THE THE	N/A	
Mr. M	Unit configuration during 10° tilt	and the	z <sub>11</sub> —	
8.6.4	Glass slide test	The Take	N/A	
8.6.5	Horizontal force test (Applied Force):	WILL ME ME ME AN	N/A	
IEK WITE	Position of feet or movable parts:	EX TEX STEX SLIER OLD	_	
8.7	Equipment mounted to wall or ceiling	in the man in the	N/A	
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	MULTER WHITER WHITER WHITE	N/A	
8.7.2	Direction and applied force:	EX TEX STEX SITES	N/A	
8.8	Handles strength	aur. Aur. My Au.	N/A	
8.8.1	Classification	TEX TEX TEX NITER IN	N/A	
8.8.2	Applied Force	in my my my my	N/A	
8.9	Wheels or casters attachment requirements	ex tex stex with white	N/A	
8.9.1	Classification	My M. W.	N/A	
8.9.2	Applied force:	Y LIER WIFE WIFE WHILE	<u>u</u> –	
8.10	Carts, stands and similar carriers	The street	N/A	
8.10.1	General	SLIFE WHITE WALLE WALL W	N/A	
8.10.2	Marking and instructions	a state of	N/A	
	Instructional Safeguard	TEN WITH WALL MALL MALL		



## Page 18 of 61

EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
8.10.3	Cart, stand or carrier loading test and compliance	The wall was all	N/A	
NALIER	Applied force	H LIET OLIE! WILL MILE		
8.10.4	Cart, stand or carrier impact test	THE THE PER	N/A	
8.10.5	Mechanical stability	WITE WHITE WALL WALL	N/A	
TEX II	Applied horizontal force (N)	A ST SET SEE	<u> </u>	
8.10.6	Thermoplastic temperature stability (°C)	Will Muli Muli Muli A	N/A	
8.11	Mounting means for rack mounted equipment	et et tet itet i	N/A	
8.11.1	General	Mur. Aur. Aur. Aur.	N/A	
8.11.2	Product Classification	- TEX TEX SITES ONLY	N/A	
8.11.3	Mechanical strength test, variable N	Mr. Mr. M. M.	N/A	
8.11.4	Mechanical strength test 250N, including end stops	TEX LIEX SLIER WITE	N/A	
8.12	Telescoping or rod antennas	(See Annex T)	N/A	
LIE WALL	Button/Ball diameter (mm):	TEX SITEX WITER WITER IN	NII —	

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	TS1	Р
9.3	Safeguard against thermal energy sources		N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard:		N/A

10	RADIATION		LITE P NIT
10.2	Radiation energy source classification	Wer, Mer Aug M.	Р
10.2.1	General classification	LEK TEK STEK STEEK	JE PLIE
10.3	Protection against laser radiation	mr m m m	N/A
LIFE WALTE	Laser radiation that exists equipment:	TEX TEX LIEX NITER INT	_
٠ ٠	Normal, abnormal, single-fault:	(See attached laser test report)	N/A
WALTE	Instructional safeguard	EX TEX STEE WITE WATER	_
- 1	Tool	My My My	_
10.4	Protection against visible, infrared, and UV radiation	LED: RS1	P
10.4.1	General	TEX LIEX SLIER WILL OU	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	We are an are	N/A
10.4.1.b)	RS3 accessible to a skilled person:	TEX LIEK WITE WITE WILL	N/A N
+ .+	Personal safeguard (PPE) instructional	The same of the sa	_



EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
- 4n-	safeguard:	The April Abril Abril Abril Abril		
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:	A TEN TEN TIEN WITTEN	N/A	
10.4.1.d)	Normal, abnormal, single-fault conditions	(See appended table B.3 & B.4)	N/A	
10.4.1.e)	Enclosure material employed as safeguard is opaque:	WALTER WALTER WALTER WALTER W	N/A	
10.4.1.f)	UV attenuation:	et tet tet aitet au	N/A	
10.4.1.g)	Materials resistant to degradation UV:	in my my my my	N/A	
10.4.1.h)	Enclosure containment of optical radiation:	ex tex liex nitex with	N/A	
10.4.1.i)	Exempt Group under normal operating conditions:	WILL THE TEX TEX	N/A	
10.4.2	Instructional safeguard	Mr. Mr. Mr. M.	N/A	
10.5	Protection against x-radiation	TEX TEX LIER OLIVER ON	N/A	
10.5.1	X- radiation energy source that exists equipment	(See appended table B.3 & B.4)	N/A	
1/1	Normal, abnormal, single fault conditions	TIL MUT, MUT, MUT, AND	N/A	
NITER OF	Equipment safeguards:	at lest test litest plifest	N/A	
10,	Instructional safeguard for skilled person:	mur, mr mr m	N/A	
10.5.3	Most unfavourable supply voltage to give maximum radiation:	White while w	_	
TEX ST	Abnormal and single-fault condition:	(See appended table B.3 & B.4)	N/A	
7 m	Maximum radiation (pA/kg):	Will Musi Must Must Miss	N/A	
10.6	Protection against acoustic energy sources	ex sex sex sight alies	N/A	
10.6.1	General	in mer mer me	N/A	
10.6.2	Classification	t tex tex ties liter alter	N/A	
7, 7	Acoustic output, dB(A)	mr. m. m. m.	N/A	
INLIER WA	Output voltage, unweighted r.m.s:	TEX ITEX STIFF WITER OF	N/A	
10.6.4	Protection of persons	me me me	N/A	
LIE	Instructional safeguards:	TEX SIEX NITER WITE WITE	N/A	
	Equipment safeguard prevent ordinary person to RS2	et tet itet itet nitet	_	
TEX	Means to actively inform user of increase sound pressure	THE THE THE	_	
Mr. M	Equipment safeguard prevent ordinary person to RS2	Marie mer war war a	_	
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	WILES MULLE MULLE MULLE MULLE	N/A	
10.6.5.1	Corded passive listening devices with analog input	TEK WAITER WAITER WAITER WAITE	N/A	

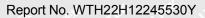


## Page 20 of 61

per une une une une proper de la company				
Clause	Requirement + Test	Result - Remark	Verdict	
L WILLER	Input voltage with 94 dB(A) L <sub>Aeq</sub> acoustic pressure output	- tex tex they will		
10.6.5.2	Corded listening devices with digital input	Mur Mu Mu Mu	N/A	
WITE W	Maximum dB(A)	TEX LIEK SLIEK WITE ON	_	
10.6.5.3	Cordless listening device	No. 2011 2011 211	N/A	
LIL	Maximum dB(A)	TEX STEE WITE WITE WALL	_	

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		WL P
B.2	Normal Operating Conditions	- ITEX LITEX MITE MITE	P.
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	I P
	Audio Amplifiers and equipment with audio amplifiers	(See Annex E)	N/A
B.2.3	Supply voltage and tolerances	5Vdc w w	Р Р
B.2.5	Input test:	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	White Man My My	N/A
B.3.1	General requirements	(See appended table B.3)	N/A
B.3.2	Covering of ventilation openings	(See appended table B.3)	N/A
B.3.3	D.C. mains polarity test	THE THE LITER OF	N/A
B.3.4	Setting of voltage selector	WE ALL MY AND AND AND	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	N/A
B.3.6	Reverse battery polarity	Mr. Mr. Mr.	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	(See appended table B.3)	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	MILIER WALTER WALTER W	N/A
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short-circuited	(See appended table B.4)	N/A
B.4.3	Motor tests	EX OLIER MILL MALL WALL	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	(See Clause G.5)	N/A
B.4.4	Short circuit of functional insulation	Mr. In A.	N/A
B.4.4.1	Short circuit of clearances for functional insulation	LIER CLIER WILL MILLER	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation	et tet itet stet stet sit	N/A





4			7	7
(	1	V		
1		L		4

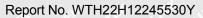
Clause	Requirement + Test	Result - Remark	Verdict
Troid de la constant	The state of the s	The strip of the sub-	10,010
B.4.4.3	Short circuit of functional insulation on coated printed boards	of the lifet writer writer	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	THE THE THE THE	N/A
B.4.6	Short circuit or disconnect of passive components	Merchanic Merchanic March	Р
B.4.7	Continuous operation of components	at let let lifet out	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	ner mer mer mer mer	Р
B.4.9	Battery charging under single fault conditions:	(See Annex M)	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	while many and any	N/A
C.1.2	Requirements	CHIEF WILL MALL MALL WALL WALL	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	Liet Will mi mi with	N/A
C.2.1	Test apparatus	at the first state	N/A
C.2.2	Mounting of test samples	write mr. mr. mr.	N/A
C.2.3	Carbon-arc light-exposure apparatus	THE THE	N/A
C.2.4	Xenon-arc light exposure apparatus	and the same same	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	Ver Mer My My My	N/A
D.2	Antenna interface test generator	LET TEX TEX STEEL MITE	N/A
D.3	Electronic pulse generator	in the sail of	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	m m	N/A
Write W	Audio signal voltage (V)	TIEN STEEL WILL MULTE MILL	_
it de	Rated load impedance (Ω):	an an at	
E.2	Audio amplifier abnormal operating conditions	(See appended table B.3)	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	P
F.1.	General requirements	English	N P
TEX	Instructions – Language:	at at all the	
F.2	Letter symbols and graphical symbols	write with any and a	Р
F.2.1	Letter symbols according to IEC60027-1	at let set stet is	P.T
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	init mil mil mil mil	P
F.3	Equipment markings	LIER ALTE WITH AIRLY MARKET	W P



EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdic	
F.3.1	Equipment marking locations	in the the way	Р	
F.3.2	Equipment identification markings	* LIEK WIFE WILLER WAL	P	
F.3.2.1	Manufacturer identification:	The street of the	_	
F.3.2.2	Model identification	CLIER WILL MALLE WALLE	7/1 _	
F.3.3	Equipment rating markings	THE CHARLET	P	
F.3.3.1	Equipment with direct connection to mains	LIFE WALLE WALLE WALL V	N/A	
F.3.3.2	Equipment without direct connection to mains	at the left of	TP IP	
F.3.3.3	Nature of supply voltage	See the marking plate	_	
F.3.3.4	Rated voltage:	See the marking plate	* _	
F.3.3.4	Rated frequency:	See the marking plate	_	
F.3.3.6	Rated current or rated power:	See the marking plate	ani —	
F.3.3.7	Equipment with multiple supply connections	ne, me me m	N/A	
F.3.4	Voltage setting device	TEX LIEK SLIEK MITER	N/A	
F.3.5	Terminals and operating devices	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	A MULLER MULLER MULLER AND	N/A	
F.3.5.2	Switch position identification marking:	at a nite mile	N/A	
F.3.5.3	Replacement fuse identification and rating markings		N/A	
F.3.5.4	Replacement battery identification marking:	VII MI ME ME	N/A	
F.3.5.5	Terminal marking location	EX TEX TEX STER OF	N/A	
F.3.6	Equipment markings related to equipment classification	t it it it	N/A	
F.3.6.1	Class I Equipment	MULL MALL WALL WALL	N/A	
F.3.6.1.1	Protective earthing conductor terminal	et set set set	N/A	
F.3.6.1.2	Neutral conductor terminal	MUCE MUCE MUCE AND	N/A	
F.3.6.1.3	Protective bonding conductor terminals	EX TEX TEX STER	N/A	
F.3.6.2	Class II equipment (IEC60417-5172)	is my me me	N/A	
F.3.6.2.1	Class II equipment with or without functional earth	ex itex litex alitex an	N/A	
F.3.6.2.2	Class II equipment with functional earth terminal marking	and an an are	N/A	
F.3.7	Equipment IP rating marking:	IPX0	7,	
F.3.8	External power supply output marking	the tex little little	N/A	
F.3.9	Durability, legibility and permanence of marking	We me me m	Р	
F.3.10	Test for permanence of markings	THE THE STEEL STEEL	NITE MAIP	
F.4	Instructions	The Man Man Man	Р	

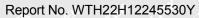


h	EN62368-1	The Mr. M.	
Clause	Requirement + Test	Result - Remark	Verdict
t NITEX	a) Equipment for use in locations where children not likely to be present - marking	tet tet itet si	N/A
- 22,	b) Instructions given for installation or initial use	W. My My My	Р
WITE W	c) Equipment intended to be fastened in place	TEX LIEX NITER WITER	N/A
LIEK NLT	d) Equipment intended for use only in restricted access area	t get get great	N/A
ek whitek	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	with white with a	N/A
. it	f) Protective earthing employed as safeguard		N/A
Whi. A	g) Protective earthing conductor current exceeding ES 2 limits	HITER WALTER WALTE WALTE	N/A
Inlie whi	h) Symbols used on equipment	EX LIEX OLIEX WITE	W. Bri
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
ik Leik	j) Replaceable components or modules providing safeguard function	whi we we w	N/A
F.5	Instructional safeguards	NUTTE WHITE WHITE WAS	n P n
MULIEK M	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	THE WALTER	W TEL PAI
G	COMPONENTS		, P
G.1	Switches	10, 10, 1,	N/A
G.1.1	General requirements	LIER OLIER MILE WA	N/A
G.1.2	Ratings, endurance, spacing, maximum load	M. M. A.	N/A
G.2	Relays	ALTER MITER MALL WALL	N/A
G.2.1	General requirements		N/A
G.2.2	Overload test	iter white while	N/A
G.2.3	Relay controlling connectors supply power	L A At	N/A
G.2.4	Mains relay, modified as stated in G.2	MALIE WALL WALL W	N/A
G.3	Protection Devices	at at let	N/A
G.3.1	Thermal cut-offs	Mrit Muri Muri Mu	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	itek milek milek milek	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	et tiet street mittet	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	THE TEX LIEX	N/A
G.3.2	Thermal links	MUT, MUT, MILL AND	N/A





EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
G.3.2.1a)	Thermal links separately tested with IEC 60691	The state of the same	N/A	
G.3.2.1b)	Thermal links tested as part of the equipment	12 LIEF OLIEF WILLER WILL	N/A	
*	Aging hours (H):	With the set	_	
MULT MY	Single Fault Condition	NITE INTERNALIE WALTE	<u> </u>	
18t 16	Test Voltage (V) and Insulation Resistance ( $\Omega$ ):	an it is the	<u> </u>	
G.3.3	PTC Thermistors	ALTER WALTER WALTE WAIT W	N/A	
G.3.4	Overcurrent protection devices	at the left of	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	NITER WITER WHITE	N/A	
G.3.5.2	Single faults conditions	(See appended Table B.4)	N/A	
G.4	Connectors	antiti mati mati mati	N/A	
G.4.1	Spacings	IL BY TEX TEXT	N/A	
G.4.2	Mains connector configuration	THE MILL MILL WILL WILL	N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	EL OUTER WITER WATER WITE	N/A	
G.5	Wound Components	THE ACT	N/A	
G.5.1	Wire insulation in wound components	(See Annex J)	N/A	
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	THE WIFE WILLIAM THE W	N/A	
G.5.1.2 b)	Construction subject to routine testing		N/A	
G.5.2	Endurance test on wound components	LEE WILL MULTER WALL WALL	N/A	
G.5.2.1	General test requirements	at the set of	N/A	
G.5.2.2	Heat run test	er unite mail mail mar	N/A	
TEX N	Time (s):	at let tet tet	_	
11, 11,	Temperature (°C)	MULL MILL MILL MILL	<i>u</i> , –	
G.5.2.3	Wound Components supplied by mains	ex tex tex stex of	N/A	
G.5.3	Transformers	Write Aug My My Aug	N/A	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	EX MILER WALTER WALTER WALTER	N/A	
TEX	Position	at at let let	_	
111, 11,	Method of protection:	MULL MULL MULL MULL	<i>n</i> –	
G.5.3.2	Insulation	et let let liet	N/A	
	Protection from displacement of windings:	nut, any any any	_	
G.5.3.3	Overload test:	(See appended table B.3)	N/A	
G.5.3.3.1	Test conditions	ing me me	N/A	



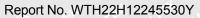
			7	7
	4		A	P
I		X		

EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
G.5.3.3.2	Winding Temperatures testing in the unit	in mir mer an in	N/A	
G.5.3.3.3	Winding Temperatures - Alternative test method	ex airex nitex uniter mair	N/A	
G.5.4	Motors	The the state of	N/A	
G.5.4.1	General requirements	WITE WITE WALL WALL	N/A	
at A	Position	The state of the s		
G.5.4.2	Test conditions	RITER WALTER WALTE WALL W	N/A	
G.5.4.3	Running overload test	a state of	N/A	
G.5.4.4	Locked-rotor overload test	THE WALL MALL MALL WILL	N/A	
TIEK.	Test duration (days):	L EX LEX TEX LIES	_	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	MULT MULT WITH THE	N/A	
G.5.4.5.2	Tested in the unit	WILL MULL MULL AND A	N/A	
TEX LIE	Electric strength test (V):	t at at the	JE -	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	rect with the till the	N/A	
MUT.	Electric strength test (V)	TEX WITE MULTE MULT WALL	_	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	THE MILES WAITER	N/A	
G.5.4.6.2	Tested in the unit	t at	N/A	
VII. MUT	Maximum Temperature	NITE OLIVE WALL WALL IN	N/A	
et let	Electric strength test (V)		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	TER WHITE MILL MULT MUT	N/A	
WILL	Electric strength test (V):	es with outer white white	N/A	
G.5.4.7	Motors with capacitors	The same of the same of	N/A	
G.5.4.8	Three-phase motors	ALTER MILE WALLE	N/A	
G.5.4.9	Series motors	W T It III	N/A	
r, mr	Operating voltage:	LIER WHITE WALL WALL WALL WA	_	
G.6	Wire Insulation	a st set set s	N/A	
G.6.1	General	it will mail man man	N/A	
G.6.2	Solvent-based enamel wiring insulation	IN THE SET SET	N/A	
G.7	Mains supply cords	MULL MULL MULL MILL	N/A	
G.7.1	General requirements	et let let let	N/A	
11 20	Type:	(See appended table 4.1.2)	_	
TEK INITE	Rated current (A):	LEX TEX STEX STEX ON	7°	
	Cross-sectional area (mm²), (AWG)	(See appended table 4.1.2)		



## Page 26 of 61

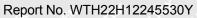
EN62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
G.7.2	Compliance and test method	The Mark of the Ma	N/A		
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	THE WALTER WALTER WALTER WALTER	N/A		
G.7.3.2	Cord strain relief	TEX TEX STEE WITE	N/A		
G.7.3.2.1	Requirements	Mr. Mr. My 200	N/A		
ALTE WALTE	Strain relief test force (N)	TEX LIER OLIER MITER ON	<u> </u>		
G.7.3.2.2	Strain relief mechanism failure	de Angelonia	N/A		
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	TEX ALTER WITE WALLE WAL	_		
G.7.3.2.4	Strain relief comprised of polymeric material	The state of	N/A		
G.7.4	Cord Entry:	(See appended table 5.4.9)	N/A		
G.7.5	Non-detachable cord bend protection	i at at at	N/A		
G.7.5.1	Requirements	WILL MULL MULL AND A	N/A		
G.7.5.2	Mass (g)	it at all the	JE -		
ni,	Diameter (m)	VILLE MUTTER	_		
LIER SLIFER	Temperature (°C):	at let let let lit	_		
G.7.6	Supply wiring space	The Art Mr. My	N/A		
G.7.6.2	Stranded wire	LET THE NITE	N/A		
G.7.6.2.1	Test with 8 mm strand	2 74 74	N/A		
G.8	Varistors	TE LIE CLITE ONLIE ON	N/A		
G.8.1	General requirements	the Annual A	N/A		
G.8.2	Safeguard against shock	TER STEE WILL MULTE MAI	N/A		
G.8.3	Safeguard against fire	N N L A R	N/A		
G.8.3.2	Varistor overload test:	(See appended table B.3)	N/A		
G.8.3.3	Temporary overvoltage:	(See appended table B.3)	N/A		
G.9	Integrated Circuit (IC) Current Limiters	INLIER MALTE WALL WALL	N/A		
G.9.1 a)	Manufacturer defines limit at max. 5A.	L A At At	N/A		
G.9.1 b)	Limiters do not have manual operator or reset	lite, while must make an	N/A		
G.9.1 c)	Supply source does not exceed 250 VA	at at the the	<u></u>		
G.9.1 d)	IC limiter output current (max. 5A):	white her has an	_		
G.9.1 e)	Manufacturers' defined drift:	t tek tek tiek atter	_		
G.9.2	Test Program 1	The Aut My M.	N/A		
G.9.3	Test Program 2	TEX LIER LIER WITE	N/A		
G.9.4	Test Program 3	me me me	N/A		
G.10	Resistors	TEX LIEX NITER WITE ON	N/A		
G.10.1	General requirements	70, 20, 20,	N/A		





EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdic	
G.10.2	Resistor test	The man and in	N/A	
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	MULTER WILLER WILLER WILLER	N/A	
G.10.3.1	General requirements	White Mary Mary Mary And	N/A	
G.10.3.2	Voltage surge test	at att the title sti	N/A	
G.10.3.3	Impulse test	HI WE WE WE WE	N/A	
G.11	Capacitor and RC units	THE THE THE LITTER WITHER	N/A	
G.11.1	General requirements	Y1, X2 capacitors used according to IEC 60384-14	N/A	
G.11.2	Conditioning of capacitors and RC units	MULL MULL MULL MULL AND A	N/A	
G.11.3	Rules for selecting capacitors	at the the little	N/A	
G.12	Optocouplers	MULL MULL MULL MILL MILL	N/A	
TEK WITE	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):	Optocoupler comply with IEC 60747-5-5	N/A	
MULL	Type test voltage Vini	it with white white	_	
EX	Routine test voltage, Vini,b:		_	
G.13	Printed boards	MULTI WILL WE	Р	
G.13.1	General requirements	the state of	P	
G.13.2	Uncoated printed boards	With Mult Aut Aut Aug	N/A	
G.13.3	Coated printed boards	at at all talk start	N/A	
G.13.4	Insulation between conductors on the same inner surface	it will mer mer our	N/A	
MUT. W	Compliance with cemented joint requirements (Specify construction)	White white white will w	_	
G.13.5	Insulation between conductors on different surfaces	MULTER WHITE MILE WHITE WHITE WA	N/A	
LIER MLIE	Distance through insulation	(See appended table 5.4.4.5)	N/A	
1 1	Number of insulation layers (pcs):	in the shift	_	
G.13.6	Tests on coated printed boards	EX TEX STEEL WITER MATTE	N/A	
G.13.6.1	Sample preparation and preliminary inspection	My An An	N/A	
G.13.6.2a)	Thermal conditioning	TEX NITER WITE WITE WITE	N/A	
G.13.6.2b)	Electric strength test	The the	N/A	
G.13.6.2c)	Abrasion resistance test	LIER WILL WILL MILL MILL	N/A	
G.14	Coating on components terminals	The state of	N/A	
G.14.1	Requirements	(See G.13)	N/A	





#### Page 28 of 61



EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
G.15	Liquid filled components	My hung my m	N/A	
G.15.1	General requirements	NITER WALTER WALTER WALTER	N/A	
G.15.2	Requirements		N/A	
G.15.3	Compliance and test methods	TER WILL MILE MILE	N/A	
G.15.3.1	Hydrostatic pressure test	and the set	N/A	
G.15.3.2	Creep resistance test	MALITY WALL WALL VI	N/A	
G.15.3.3	Tubing and fittings compatibility test	at at at .	N/A	
G.15.3.4	Vibration test	NUTT AND MUT AND	N/A	
G.15.3.5	Thermal cycling test	et let let let	N/A	
G.15.3.6	Force test	THE MUSE WAY THE	N/A	
G.15.4	Compliance	EK TEK JEK STER	N/A	
G.16	IC including capacitor discharge function (ICX)	Mr. Mr. M.	N/A	
a) Mulite	Humidity treatment in accordance with sc5.4.8 – 120 hours	WAITER WAITER WAITER W	N/A	
b) writer	Impulse test using circuit 2 with Uc = to transient voltage	STEET WIFE MATER WAL	N/A	
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	ALTER MITES	N/A	
C2)	Test voltage:	2 12	_	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	White white white	N/A	
D2)	Capacitance	Write Mrs. Aug. Au	_	
D3)	Resistance:	at test test to	* _	
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A	
H.15	General	et tet tet stet	N/A	
H.2	Method A	Mur Aur Au	N/A	
H.3	Method B	LIEK LIEK SLIEK	N/A	
H.3.1	Ringing signal	Mr. My My Co	N/A	
H.3.1.1	Frequency (Hz):	ITEK SLIFE WITE NA		
H.3.1.2	Voltage (V)	W A A	_	
H.3.1.3	Cadence; time (s) and voltage (V):	LIER WILL WALLE	- in	
H.3.1.4	Single fault current (mA)::		_	
H.3.2	Tripping device and monitoring voltage:	EL MALTER MALTER MALTER	N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	LIEK NITEK MITEK W	N/A	



## Page 29 of 61

EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
H.3.2.2	Tripping device	The war and any	N/A	
H.3.2.3	Monitoring voltage (V)	THE CLIEF MITTER SMITH	_	
J	INSULATED WINDING WIRES FOR USE WITHO		N/A	
mr m	General requirements	(See separate test report)	N/A	
K	SAFETY INTERLOCKS		N/A	
K.1	General requirements		N/A	
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A	
K.3	Inadvertent change of operating mode		N/A	
K.4	Interlock safeguard override		N/A	
K.5	Fail-safe		N/A	
	Compliance :	(See appended table B.4)	N/A	
K.6	Mechanically operated safety interlocks		N/A	
K.6.1	Endurance requirement		N/A	
K.6.2	Compliance and Test method:		N/A	
K.7	Interlock circuit isolation		N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A	
K.7.2	Overload test, Current (A)		N/A	
K.7.3	Endurance test		N/A	
K.7.4	Electric strength test:	(See appended table 5.4.11)	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements		N/A	
L.2	Permanently connected equipment		N/A	
L.3	Parts that remain energized		N/A	
L.4	Single phase equipment		N/A	
L.5	Three-phase equipment		N/A	
L.6	Switches as disconnect devices		N/A	
L.7	Plugs as disconnect devices		N/A	
L.8	Multiple power sources		N/A	
М	EQUIPMENT CONTAINING BATTERIES AND T	HEIR PROTECTION CIRCUITS	N/A	
M.1	General requirements		N/A	
M.2	Safety of batteries and their cells		N/A	
M.2.1	Requirements		N/A	
M.2.2	Compliance and test method (identify method):		N/A	



## Page 30 of 61

Clause	Requirement + Test	Result - Remark	Verdic
Le Milia	wint with all and and a test	THE STIFF OF THE WATER WITH	N.C.
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
M.3.3	Compliance	(See appended Tables and Annex M and M.4)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	_
M.4.2.2 b)	Single faults in charging circuitry	(See Annex B.4)	_
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		N/A



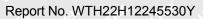
## Page 31 of 61

120	EN62368-1	Will aut Mr. Mr.	70.
Clause	Requirement + Test	Result - Remark	Verdict
M.6.2	Leakage current (mA):		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A
N	ELECTROCHEMICAL POTENTIALS		
	Metal(s) used:	Pollution degree considered	_
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:	Considered	_
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A
P.1	General requirements		N/A
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm):		_
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallizedparts of a barrier or enclosure (identification of supplementary safeguard):		N/A



## Page 32 of 61

	EN62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
P.3	Safeguards against spillage of internal liquids	The action of the substitute o	N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
 ⊃.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
, , , , , , , , , , , , , , , , , , ,	Tc (°C)		_
	Tr (°C):		
	Ta (°C)		
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		N/A
	- Regulating network limited output under normal operating and simulated single fault condition		N/A
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method	(See appended table Annex Q.1)	N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A):		_
	Current limiting method:		_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)):		N/A
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 4000 W		N/A
	Samples, material		_
	Wall thickness (mm):		_



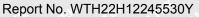


EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
all.	Conditioning (°C):	ite all all and	70,	
	Test flame according to IEC 60695-11-5 with		N/A	
	conditions as set out		IN//X	
	- Material not consumed completely		N/A	
	- Material extinguishes within 30s		N/A	
	- No burning of layer or wrapping tissue		N/A	
5.2	Flammability test for fire enclosure and fire barrier integrity		N/A	
	Samples, material:		_	
	Wall thickness (mm)		_	
	Conditioning (°C):		_	
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A	
	Test specimen does not show any additional hole		N/A	
5.3	Flammability test for the bottom of a fire enclosure		N/A	
	Samples, material:		_	
	Wall thickness (mm)		_	
	Cheesecloth did not ignite		N/A	
6.4	Flammability classification of materials		N/A	
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A	
	Samples, material:		_	
	Wall thickness (mm):		_	
	Conditioning (test condition), (°C):		_	
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A	
	After every test specimen was not consumed completely		N/A	
	After fifth flame application, flame extinguished within 1 min		N/A	
	MECHANICAL STRENGTH TESTS		N/A	
<sup>-</sup> .1	General requirements		N/A	
.2	Steady force test, 10 N	(See appended table T.2)	N/A	
.3	Steady force test, 30 N	(See appended table T3)	N/A	
ī.4	Steady force test, 100 N:	(See appended table T4)	N/A	



## Page 34 of 61

EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
T.5	Steady force test, 250 N	: (See appended table T5)	N/A	
T.6	Enclosure impact test	(See appended table T6)	N/A	
	Fall test	(coc appointed takes 10)	N/A	
	Swing test		N/A	
T.7	Drop test	: (See appended table T7)	N/A	
T.8	Stress relief test	: (See appended table T8)	N/A	
T.9	Impact Test (glass)		N/A	
T.9.1	General requirements		N/A	
T.9.2	Impact test and compliance		N/A	
	Impact energy (J)	:		
	Height (m)	:		
T.10	Glass fragmentation test	: (See sub-clause 4.4.4.9)	N/A	
T.11	Test for telescoping or rod antennas		N/A	
	Torque value (Nm)	:	_	
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION			
U.1	General requirements		N/A	
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A	
U.3	Protective Screen	: (See Annex T)	N/A	
V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)			
V.1	Accessible parts of equipment		N/A	
V.2	Accessible part criterion		N/A	





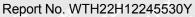


write mer mer me m	EN62368-1	, aut.
Clause Requirement + Test	Result - Remark	Verdict

4.1.2	TABLE: List of critical components				TIP N
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1
Plastic enclosure	Interchangeable	Interchangeable	V-0, Min. 1.5mm thick	UL 94	UL:
PCB mult	Interchangeable	Interchangeable	V-0, 130°C	UL 94	ÜL:
Internal wire	Interchangeable	Interchangeable	Min. 28AWG, VW- 1, 80°C	UL 758	WILLE TO
Panel	Shenzhen QM Smart Panlee Technology Co., Ltd.	ZX3D50CE08S- USRC-4832	3.5 inch	EN 62368-1	Tested with appliance

Supplementary information:

<sup>&</sup>lt;sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.



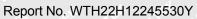
Page 36 of 61



EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	

4	1	et cier aire air	7/1, 7,	- t - t - s	
4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batteries	s mechanical tests	N/A	
(The follow	ing mechar	nical tests are conducted in the	sequence noted.)		
4.8.4.2	TABLE: Stress Relief test			_	
Part		Material	Oven Temperature (°C)	Comments	
1 1	.+	It let tex ties on	in me me	Pass	
4.8.4.3	4.8.4.3 TABLE: Battery replacement test				
Battery part	t no	:	Mr. Mr. M. M.	_	
Battery Installation/withdrawal		drawal	Battery Installation/Removal Cycle	Comments	
	cit cit	TEX LIER OLIER WALL	in in it	L at all	
NALTE WALT			THE SELECTION OF THE SE	MULL MULL	
, t t			3	et et	
life while			of the tife with with	Wir Mur M	
et et			5	LET SET S	
MULL			tree nut 6 per unt w	in Mr. M.	
TEXT .			8	Et JET JE	
MUT. MU			9 (11) 11	m. m	
TEX IT			10	LIEN NITER	
4.8.4.4	TABLE: Dr	op test	LIFE WALL WALL WALL WALL	_	
Impact Area		Drop Distance	Drop No.	Observations	
t let	TEX U	White White Whi Whi	An An In	TEX TEX IS	
MUT. M	L 211	At at the wind	MITEL WHITE VE THE WALL WA	me m	
NIEK IN	TER NALTE	AVILLANCE MUSE IN	At Jet Jet Je	ANTER WALTER	
4.8.4.5	TABLE: Impact —				
Impacts per surface		Surface tested	Impact energy (Nm)	Comments	
1 1	et .	15 TEL STEE WALL WA	m m m	A At	
E WILL	Mrs. Mrs	Mr. Mr.	TEN TEN NITER OUTER	VILL MUT. AND	
	et et	- LIER SLIER WALL WALL	The The The	at at de	
4.8.4.6	TABLE: C	rush test	ITEX SLIER WITER WATER WATER	_	
Test position		Surface tested	Crushing Force (N)	Duration force applied (s)	
++	et	EX LIEX MALTE WALL W	in the the the	at let	
Supplement	ary informati	on:			







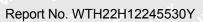
MUTLE MUT. MU	EN62368-1	SLIER WILE WHILE WHILE W	Tr. MUT.
Clause	Requirement + Test	Result - Remark	Verdict

4.8.5 TABLE: Lith	ium coin/button cell batteries	inechanical test result	N/A
Test position	Surface tested	Force (N)	Duration force applied (s)
Write Mrit Mrit o	We also also and	THE THE LIER NITER OF	ALTE WALT WALT
	ret tel tel nite.	ave me me a	1 st at

5.2	T	WILL	W. b m					
5.2.2.2	2 – Stead	y State	Voltage and Cu	rrent conditions			<u> </u>	
	Cumml		Location (e.g.		Parameters			
No.	ISHIDDIV I STATE	Test conditions	U (Vrms or Vpk)	I (Apk or Arms)	Hz	ES Class		
TEX	TEX	LIFER	WITE WALTE	Normal		# 18t 18	- JEX	CLIER I
1	5Vdc		TEX SLIEK	Abnormal (Overload)	The waite was	- my my	A11	ES1
"In"	ans		10 10	Single fault –SC	E STER WITE	- nite mili	Table 1	V. Mur

5.2.2.0	3 - Capacitance			1			
N.I.	Supply	Location (e.g.	T 4		Parameters	<b>i</b>	
No.	Voltage	circuit designation)	Test conditions	Capacitance	e, µF	Upk (V)	ES Class
JE 1	NI ER WAITE	Mr. Aur.	Normal	A 15	TEX TEX	LIEN NITER	INLIE NI
		TEX TEX	Abnormal(S-C)	The work - we	T. M.	24 St	L
	ir white w	L Mr. M	Single fault –	t tet - ti	EX WITE N	NITE WALTER	W. July
5.2.2.4	- Single Pulse	S					
	Supply Location (e.g.						
No.	Voltage circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class	
,	21, 1	at at	Normal	LITE MALLY	ive, when	1/1 /1/1	1
	LI EX MITER	WILL MULL	Abnormal	+ +	CEX TEX	JEK SLIER	WITE WA
	EX LIEX	TEH MITEH	Single fault – SC/OC	MUTI MU	r "h" .	in in	LIEK ALTE
5.2.2.5	- Repetitive Pu	ulses					
	Supply	Location (e.g.			Parameters	Parameters	
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
LIE	in in white	Mr. Mr.	Normal	LET LET	JEK STEK	NITE WALTE	WILL W
		LEK LEK	Abnormal	" " " " " " " " " " " " " " " " " " "	. 1/1		xt.

TRF No. IEC62368\_1D



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





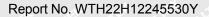
		EN6236	8-1			
Clause	Requi	rement + Test		Result - F	Verdict	
A WILE MILE	t Whitek whitek	Single fault – SC/OC	MUTTER.	MET YET	TEX WILL	e w v
Test Conditions:  Norn Abno	nal – ormal -	WILE MULTER MULTER	WALL WA	EX WILEX	NITEK WALTER	white white

5.4.1.4, TA 9.3, B.1.5, B.2.6	ABLE: Temperature measurements							
Supply voltage (V)		:		5Vdc	L st	# A	LITTE C	_
Ambient temperature durin	g test T <sub>amb</sub> (°C)	:	7.	LIET MILI	WILL M	11. Aug	111 - 111	_
Maximum measured temperature T of part/at:			T (°C)					Allowed T <sub>max</sub> (°C)
DC IN				39.2		- 10	TEX - JEX	85
PCB Near U1				41.4	ALTE WALL	mr - m	$\overline{x}_{0}$	130
PCB Near U3				43.3	x - x	7EX- (1	EX TIEN	130
PCB Near U4			-	46.5	MAL	Mrs -M.	20,-	130
PCB Near U2				47.8	, est-	TEL	WILE WI	85
J2	, Est 5	K	ناريد	39.1	2	1/1		Ref.
Ambient	- 4-			35.0	TE T		NITE - WITE	an <u>u</u>
Accessible Areas (See belo	ow)	ای	NUT	AU.	m. m	1, - 1	x - x	, Et
Plastic Enclosure	20, 20,	,	E.K	27.6	TEX - LIEN	NITE NO	il will	48
Panel Land Control of the Control of				27.8	77	-	L -c+	48
Ambient				25.0	A CHIEF	WILL WALLE	mr. m	-11/2
Temperature 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
at at alt a	EX LIEX SLIP		WIL	WILL	114. 114.	10.		at the same of the

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)







		EN623	68-1		
Clause	NITEK	Requirement + Test	, b, 1,	Verdict	
5.4.1.10.2	TABLE: V	icat softening temperature of the	rmoplastics	the the sure	N/A
Penetration	(mm)		LIEK NITER	WILL WALLE WALL	_
Object/ Part	No./Materi	al	Manufacturer/t rademark	T softening (°	C)

supplementary information:

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics							
Allowed imp	ression diameter	(mm):	≤ 2 mm	in whi a	_			
Object/Part No./Material Manufacturer/trademark			Test temperature (°C)	Impression diameter (mm)				
m m	-20. 1	the state of	LIE WILL WALL	mr m	14			
Supplemen	tary information:	White Mure Mure and	a state of	TEX LIEN	CLIER			

5.4.2.2, TABLE: Minimum Clearances/Creepage distance 5.4.2.4 and 5.4.3							
Clearance (cl) and creepage distance (cr) 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 <sup>3</sup> cr (mm)	cr (mm)
RITER WITE WE WILL THE	2	<u></u>		(I) - (V	7	CLIEF- INL	in Marine

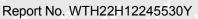
Supplementary information:

Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test

Note 3: Provide Material Group

Note 4: Clearance is determined according to Table 15 of Clause 5.4.2.3.4

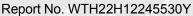
5.4.2.3	4.2.3 TABLE: Minimum Clearances distances using required withstand voltage						
,t	Overvoltage Category (OV):						
LIL WALL	NITE WALL BURLE .						
Clearance distanced between:		nce distanced between:  Required withstand voltage  Required c		Measured cl (mm)			
4	at - at let it	- write -write with	me - m	- x+			
~ (1). A	ntary information: Experiment 00m altitude was considered	of electric strength base	d on Mains transient volt	ages.			







intite wat	AUT A	10	T	N62368-1	LIEN	CLIFEK OF	NITE WY	TIL M	TI. WYL.
Clause	NITEK IN	Requirem	ent + Test	Me	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Result -	- Remark	# .J	Verdict
5.4.2.4	TABLE: CI	earances bas	sed on electr	electric strength test				1/1/2	N/A
Test voltag	e applied bety		Requi (mi	red cl	Test vol	tage (kV n.s. / d.c		Breakdown Yes / No	
alie an	LIV MALL	me me	10 1	- 0+	, et	- JEX	TEL	Ule -	mlite whi
Supplemen	tary information	on:	LIEK NE	IE' WALTE	with.	u.	11 11		ال ل
LIE MILI	White M	in min	11/2 11/2	et	ZEX.	JEK .	LIEF NE	iti uni	TE WALTE
5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Di	stance throu	gh insulation	n measuren	nents	EK MULI	EX MUTTER	L WALTE	N/A
Distance th insulation d				Frequency (kHz)	Mate	erial	Required (mm		DTI (mm)
TEX	THE STEEL	ILIE MIT	-Writing	71,	- L	+	.et	TEX	TEX- IT
Supplement	ary information	n:	11 1	EX STEE	INLIE .	ULITE OF	ur, m	. M	7//
TEX ITE	ALTER IN	TE WILL.	MUCE WILL	7,		.+	et i	et s	EX LIER
5.4.9	TABLE: Ele	ctric strengt	h tests	CLIFE AN	LIFE WA	in m	MUF	m	N/A
Test voltage applied between:  Voltage shape (AC, DC)						Test v	oltage (V	)	Breakdown Yes / No
LEX.	14 \1 =		1,00			1	- 4	4	Tight 1
Supplemen	tary information	on: Experime	nt of electric s	trength base	ed on Mai	ns transi	ent voltag	jes.	ne an
TEX J	EK .		1 VI				1	(EX	TEX LIE
5.5.2.2	TABLE: Sto	red discharç	ge on capaci	tors	Inlife a	الل الما	VII. MU	- m	N/A
Supply Vol	tage (V), Hz	Test Location	Operating Condition (N, S)	Switch position	¹ (af	asured V ter 2 sec		ES CI	assification
Whi v	TEX WITEK	WITEH WALTE	Normal operating condition	NIEK WALT	ext on the	WALTE	WILL	WALL	WAL W
Supplemen	tary informati	on:	TEX SI	TER MITE	MALTY	NUL!	110, 211	. 4	7
☐ bleeding ☐ ICX: Notes:	rs installed for g resistor ratir	71 <u>-</u>	harge resisto	ri vov Junifek Junifek					
A. Test Loc									
	eutral; Phase			and/or Neut	ral to Ear	th			
	ng condition a			tion or once	fusc): S	Single 4	foult cond	ition	
n – norma	l operating co	nullion (e.g., I	normai opera	don, or open	iuse); S	–Single 1	auit cond	IIION	







Mrite Mili	EN62368-1	ALTER MITER WALTER WALLE WALLE	MUT.
Clause	Requirement + Test	Result - Remark	Verdict

uration Voltage of	drop Resistance
(min) (V)	$(\Omega)$
et tet tet st	EX WITE WAITE WAS
	(min) (V)

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part					
Supply volt	tage	MULL MULL MULL MILL MILL	_			
Location		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)			
	t let get gree alger made w	m I I	at at			
		- 10 2* Life Life	INLIE WALLE			
		1/11 3	at at			
		- Let 11th 4 11th million	in my			
		5	t 18 18			
		if 6 with white	White White			
		8	TEX TEX			

### Supplementary Information:

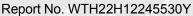
### Notes:

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

6.2.2	Table: Electrica	THE A			
Source Description		Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
	at let o	Power (W) :	mr. anr. m	14 - 24	* # 1
All circuits	5Vdc	V <sub>A</sub> (V) :	18th 18th 15	ALTER-NITER W	PS1
A 10	t TEX TEX	I <sub>A</sub> (A) :	any att my	2 - 7	t et set

### Supplementary Information:

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







Mr. Mur.	EN62368-1	WIFE WIFE WHITE WHITE WHI	Mr.
Clause	Requirement + Test	Result - Remark	Verdict

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)										
		Open circuit voltage After 3 s	Measured r.m.s	Calculated value	Arcing PIS?						
	Location	(Vp)	(Irms)	$(V_p \times I_{rms})$	Yes / No						
LIEK OLIF	WILL WULL MY	nu - m	14 - 14	TEX TEX LITER	NITER-WITE						

### 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: Determination of Potential Ignition Sources (Resistive PIS)							
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		
at at - at all	LIER - LIER IN	in in	11/2 1		<u> </u>		

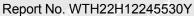
#### Supplementary Information:

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	e state	A ANT ANT OF N/A
Descriptio	n	Values	Energy Source Classification
Lamp type		LIK TEK TEK	<del>-</del>
Manufactu	ırer	White Mile Mile	<u> </u>
Cat no	an an i	LET TEX STEX	_
Pressure (	(cold) (MPa)	Nr. Mr. Mr. 2	MS_
Pressure (	(operating) (MPa):	ret tet tet d	ST MS_ MS_ M
Operating	time (minutes):	Mr. M. M.	_
Explosion	method:	* JEX STEK WITE	_
Max partic	cle length escaping enclosure (mm).:	Mr. Mr. Mr.	_MS_
Max partic	cle length beyond 1 m (mm):	LIER SLIER WITE	MS_ MS_
Overall res	sult: un	Mr. Mr. M.	at the text of the
Suppleme	ntary information:	LIER OLIER MLIER ON	WILL MUT MY MY MY







Write Muri	EN62368-1	White white white white whi	MUT.
Clause	Requirement + Test	Result - Remark	Verdict

B.2.5	5 TABLE: Input test						THE WALL BY	
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
DC5V	<u>~</u>	0.19	n 7n	0.95	5	TEX SIFE	T. TE	Normal working

B.3 TA	TABLE: Abnormal operating condition tests									
Ambient tempe	rature (°C)	<i>u</i> ,			wet-	75EK	ALTER INLIER OF	LT.	_	
Power source f	Power source for EUT: Manufacturer, model/type, output rating: See label									
Component No	. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)		Temp. (°C)	С	bservation	

Supplementary information:

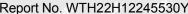
Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

B.4 TA	BLE: Fault c	ondition tests	17 11		1/2		at let	EX	AP A
Ambient temper	ature (°C)	,,		(J.E.	:	See	blow	- m	_
Power source for	or EUT: Manu	facturer, mode	l/type, outp	ut rating		See	label	٠ . ن	_
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	curr	se ent,	Temp. (°C)	Ol	oservation
C3	S-C	DC5V	10min					circu shut imm dam	r short uit, Unit down ediately. no aged no ards.
C2	S-C	DC5V	10min					circu shut imm dam	r short uit, Unit down ediately. no aged no ards.
C13	S-C	DC5V	10min					circu shut imm dam	r short uit, Unit down ediately. no aged no ards.

Supplementary information: S-C=Short Circuit, O-C=Open Circuit, O-L=Over Load.

The Electric strength tests were successfully conducted after the completion of fault tests, no breakdown.

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





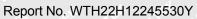


						4			/ AV
				EN62368-1					
Clause	ALTEK IN	Requirer	nent + Test	M	4,	Result -	Remark	t TEX	Verdict
	70 20	4	et et	NI EL	اله. الأدار		· uni	Me	10, 10,
Annex M.3	Annex M.3 TABLE: Batteries  The tests of Annex M are applicable only when appropriate battery data is not available								N/A
				<del></del>			ilable	mr 4	1. 20,
Is it possible	to install the	e battery in a	reverse polar	ity position	ı?	<u>:</u>	1	ut.	CER JEK
	Non-	rechargeabl	e batteries		F	Rechargea	ble batteri	es	
	Disc	charging	Un-	Cha	rging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during norm condition		AUTIFIE MA	TEX -UNITEX	WALTER V	NITEX WA	iek <u>-</u> unii K	<u>nivite</u>	WALL .	
Max. current during fault condition	t water	un trek un i	H WALTER V	ALTER WAL	SER MULTS	which	we w	A W	K -IEK
Test results:	wer w	ir our	- Ch	, Et	TEX	LIEK M	Er antis	- MUNITY	Verdict
- Chemical le	eaks	it liet	alier with	MUL	21/2 21			et l	Att o
- Explosion	of the batter	A An A	<u> </u>	TEX	JEK N	IER WILLE	MALTE	WALL O	ing and
- Emission o	of flame or ex	kpulsion of m	olten metal	2,00			, t	LEX .	TEX TEX
- Electric str	ength tests of	of equipment	after completi	ion of tests			unlile w	vr. an	" MIL
Supplement	ary informati	ion:	. 1				- t	et de	H TEH
ivr. Aur	2112 2	4	A	EX JEX	CLIER	WITE W	Lis Wil	MUT	any.
Annex M.4	Table: Add	litional safe	guards for equ	uipment c	ontaining	secondar	y lithium	NALTEK	N/A
Batter	-	Test c	onditions		Meas	urements		Ob	servation
No	Э.			U		I (A)	Temp (C	C)	
WILL MALL	Whi.	Normal	20,	c# 28	y TEX	TEX	CLIEB OF	LIE MIL	WALL

Battery/Cell	Test conditions		Measurements			
No.		U	I (A)	Temp (C)		
WILL WALL WALL	Normal	at at	TEX LIEX	OLIER WIFE	White Whi	
at let let	Abnormal	in me	4 74	71 V	at at	
LIL WALL WALL	Single fault –SC/OC	Et JEK	TEX STEE	OLIER MALTE	ing wing	
at let let	Normal	Mr. M.	111, 1		et let	
Mr. Mr. M	Abnormal	TEX J	EX SLIFE MY	The White W	nur m	
et let of	Single fault – SC/OC	in in	7, 1	1 1	of the top	

Battery identification	Charging at T <sub>lowest</sub> (°C)	Observation	Charging at T <sub>highest</sub> (°C)	Observation
PLIET WALTE WALT	MUT. MUT.		TEX TEX N	lex niter anite wall ou
Supplementary Int	formation:	LIFEK WALL WALL W	ur mr. m.	The state of

TRF No. IEC62368\_1D







MULLE MULL	IN THE ENG	2368-1	MUT.
Clause	Requirement + Test	Result - Remark	Verdict

Annex Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS)								
Output Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub> (A)		S (VA)				
				Meas.	Limit	Meas.	Limit			
* - *	LET THE THE	LIFE - NLTV	1/1 1	-70	-		t ex			

T.2, T.3, T.4, T.5	TABL	E: Steady force	test * The Table	THE MUT. M.	et tet t	EX CLEX	N/A
Part/Loca	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
n. n.	100	1 1 1	t let let	WITE WALLE	WILL WILL	m. m.	-20,
Supplemen	itary info	rmation:	MUE. MILE	1 1t	et et	TEX LIE	ALTER SI

T.6, T.9	TABL	E: Impact tests			TEX TEX STEX SLITER WILL	l/A
Part/Loca	ition	Material	Thickness (mm)	Vertical distance (mm)	Observation	
mr. m		<b>7                                    </b>		LIE .	a we me m	a,
Supplement	tary info	rmation:			It TEX LIFE	LIE

T.7 TAE	BLE: Drop tests	Mury Any	The six	.0		Et C		IEK IN	N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)			Obs	ervation		
Mr. M.	20, 1	et let	LIEN WILE OR	LIE .	NV LIV	Wr.	Mr	m.	10,
Supplementary in	formation:	The Mary M	70	,L	st	TEK.	TEX	LIEK	CLIER

T.8 TAB	LE: Stress relief	test	1 2 2 t	LET LET	N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Supplementary in	formation:	LIE WILL	TEX TEX S	TEL OLITER NO	TEX MILEX WATER WATER



Page 46 of 61

**Attachment No.1** 

	of the text of the street	EN62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

MULT WILL	IEC62368_1D - ATTACHMENT					
Clause	Requirement + Test	in while while who we	Result - Remark	Verdict		

#### ATTACHMENT TO TEST REPORT

#### IEC 62368-1

### **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

(AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - PART 1: SAFETY REQUIREMENTS)

**Differences according to**...... EN 62368-1:2014+A11:2017

Attachment Form No..... EU\_GD\_IEC62368\_1D\_II

Attachment Originator...... Nemko AS

Master Attachment.....: Date 2021-02-04

Copyright © 2021 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.

	CENELEC C	COMMON MOI	DIFICATION	NS (EN)			1	
ALTER WALT	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed "Z".							
CONTENTS	Add the follo	wing annexes:				at the s	P	
et whitet where have a supplied where the supplied where the supplied to the s	Annex ZA (normative)  Normative references to international publications with their corresponding European publications Annex ZB (normative)  Annex ZC (informative)  Annex ZD (informative)  Annex ZD (informative)  Normative references to international publications Special national conditions A-deviations IEC and CENELEC code designations for flexible cords							
		e "country" note the following lis		erence documen	t (IEC 62368-	1:2014)	P	
	0.2.1	Note	1	Note 3	4.1.15	Note		
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	WY.	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	MULL	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	LIFER	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	EX WA	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3		

TRF No. IEC62368\_1D



Page 47 of 61

	EN62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
1 whitek wh	Add the following note:  NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	WHITEK WHITEK WHITEK WHI	IN TEX WALT
4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	E WALTER WALTER WALTER WA	N/A White white was a state of the state of
	<ul> <li>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;</li> <li>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;</li> </ul>	THE WALTER WALTER	Whitek whitek
	c) it is permitted for <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , 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.	1 pt 15th 15th	t white white the control of the con
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type</b> At the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	The Mr. M. M.	tiet whitet
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	it ex multex multex multex	WA WATE
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	MULTER WALTER WALTER	N/A



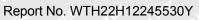
## Page 48 of 61

EN62368-1			
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:	LIEK WALTER WALTER WAL	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.  NOTE Z1 Soldered joints and paint lockings are examples of		whitek whitek
	adequate locking.  The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.		and ex and
	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.		iet writet w
Mulier M Tex uli	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.	Miliek white	antie uni
10.6.1	Add the following paragraph to the end of the subclause:  EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	AUTER MUTER AUTER AL	N/A
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	LIEK WILLER WILLER WILL	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).		WITE MITTER
	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 handheld and body-mounted devices, attention is drawn to EN 50360 and EN 50566		weith was
G.7.1	Add the following note:  NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	White white white	WALLEY OUTEX



Page 49 of 61

EN62368-1			
Clause	Requirement + Test Result - Remark	Verdict	
Bibliography  THE MILITER MILI	Add the following standards:  Add the following notes for the standards indicated:  IEC 60130-9 NOTE Harmonized as EN 60130-9.  IEC 60269-2 NOTE Harmonized as HD 60269-2.  IEC 60309-1 NOTE Harmonized as EN 60309-1.  IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.  IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.  IEC 60664-5 NOTE Harmonized as EN 60664-5.  IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).  IEC 61508-1 NOTE Harmonized as EN 61508-1.  IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.  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.  IEC 61643-311 NOTE Harmonized as EN 61643-321.  IEC 61643-331 NOTE Harmonized as EN 61643-331.	White white was a straight of the contract of	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A	
4.1.15  A.1.15  A.1.15	Denmark, Finland, Norway and Sweden  To the end of the subclause the following is added:  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.  The marking text in the applicable countries shall be as follows:  In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."  In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"  In Norway: "Apparatet må tilkoples jordet stikkontakt"  In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A  N/A  III  INITE  I	



Page 50 of 61



EN62368-1 WITH THE LIFE LIFE CONTROL OF THE PARTY OF THE				
Clause	Requirement + Test	Result - Remark	Verdict	
4.7.3	United Kingdom  To the end of the subclause the following is added 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	TEL NITER WHITEK WHITEK	N/A	
5.2.2.2	Denmark  After the 2nd paragraph add the following: A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	t whitet whitet whitet white the first	N/A	





Page 51 of 61

EN62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
Clause  5.4.11.1 and Annex G	Finland and Sweden  To the end of the subclause the following is added For separation of the telecommunication network from earth the following is applicable:  If this insulation is solid, including insulation forming part of a component, it shall at least consist of eith two layers of thin sheet material, each of which shall pass the electric strength test below, or one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.  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 are creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition passes the tests and inspection criteria of 5.4.8	d: Lifet white white white white the white white the white white the white t	Verdict N/A
Whitek whitek	<ul> <li>passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied b 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and</li> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5k It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.</li> <li>A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:</li> </ul>	tet whitet whitek	MILE WALLEY WALLEY WALLEY
MULTER WALTER	<ul> <li>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 what an impulse test of 2,5 kV defined in 5.4.11;</li> <li>the additional testing shall be performed on all the test specimens as described in EN 60384-14;</li> <li>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.</li> </ul>	ith  ne  ne  ne  ne  ne  ne  ne  ne  ne  n	Will Junited
5.5.2.1	Norway  After the 3rd paragraph the following is added:  Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	WE THE WALTER WALTER WALTER	N/A



# Page 52 of 61

EN62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.6 NO.	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	et et let let	N/A N/A NA
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socker outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	THE WALTER WALTER WALTER	N/A  TEX MITTER  MITTE
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.	Whitek whitek whitek whitek	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	Sources white whites	TEK SULTEK S
5.7.5	Denmark  To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Writek whitek whitek whitek	WALLEY WALLE



Page 53 of 61

EN62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden  To the end of the subclause the following is added:	ILIEK WALTER WALTER WAL	N/A
Mirek Juli Tek Whitek	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 whitek
Muritik Mu	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.		H WITEK WAL
NITEK WALTE	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:		WALTER WALTE
WALTER W	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable,		iet wites w
unitek unitek	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)"		un tek whit
White.	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 write wr
TEX SI	Translation to Norwegian (the Swedish text will also be accepted in Norway):		VIET WIFE
TEX MUTER	"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."		nite whitek
ALTEK IN	Translation to Swedish:		X DITEX NOT
our white white white	"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



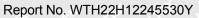
# Page 54 of 61

EN62368-1			
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.	ELL MULIER MULIER MULIER	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	JUNITER WALTER W	N/A  IFE UNITED TO THE
G.4.2	Denmark  To the end of the subclause the following is 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.  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.  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.  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.  Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.  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  Justification:  Heavy Current Regulations, Section 6c	CHET WHITEK WHIT	EK N/A INCIPATION INCI



Page 55 of 61

EN62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
G.4.2	United Kingdom  To the end of the subclause the following is added: 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.	STEK WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	N/A	
G.7.1	United Kingdom  To the first paragraph the following is added:  Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.  NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	WILLER WHITEK WH	N/A	
G.7.1	Ireland  To the first paragraph the following is added:  Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	White white whitek whit	N/A	
G.7.2	Ireland and United Kingdom  To the first paragraph the following is added:  A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A.	EX WHITEK WHITEK WHITEK	N/A	

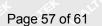


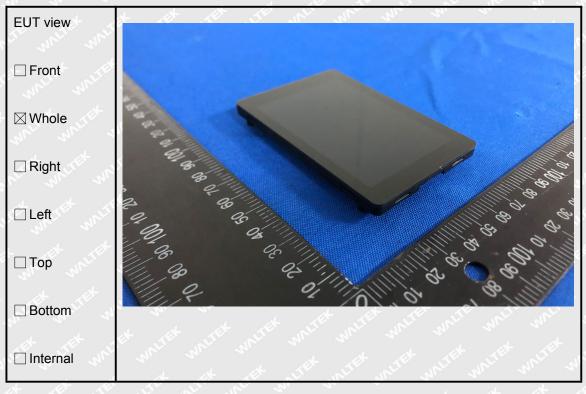
### Page 56 of 61

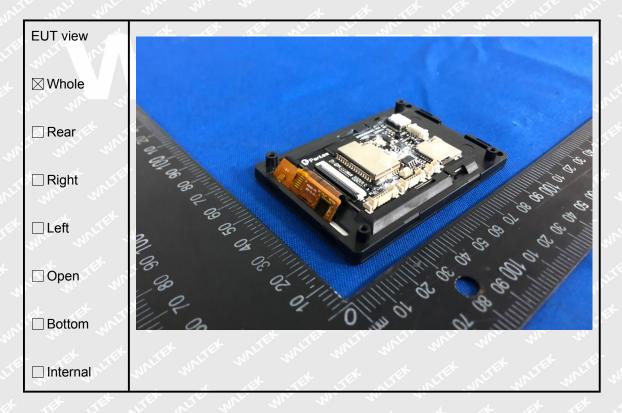


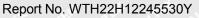
EN62368-1 WAY THE THE THE THE PARTY OF THE P			
Clause	Requirement + Test	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	* alter outer out	EK WILLK MU
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.  Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.  NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	Whitek wh	N/A  N/A  N/A  N/A  N/A  N/A  N/A





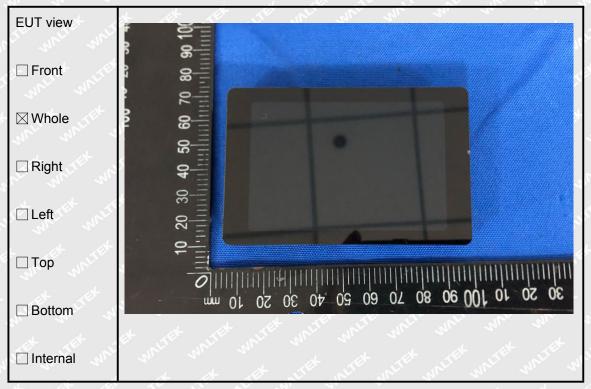


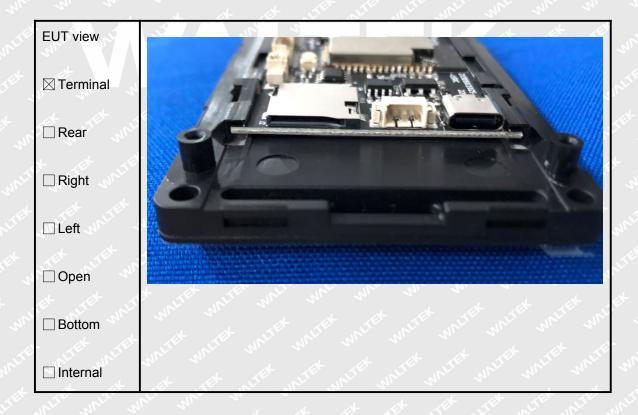




Page 58 of 61



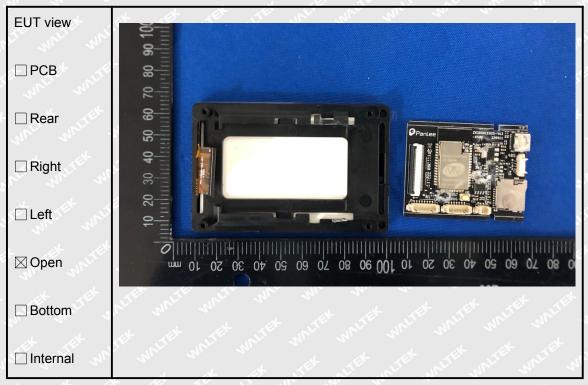


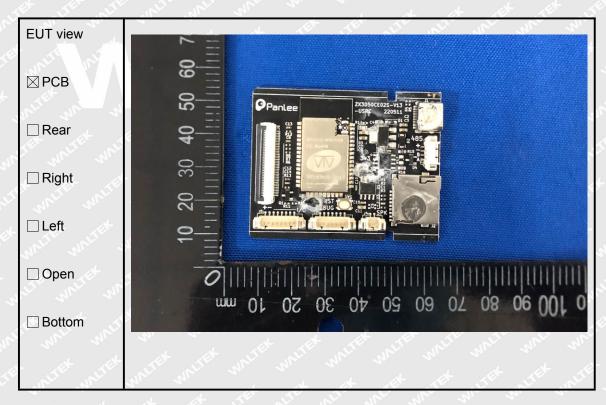


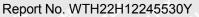


Page 59 of 61

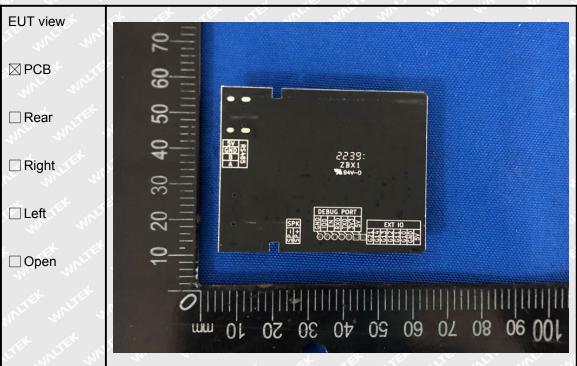








Page 60 of 61







#### Statement:

- 1. This report is considered invalid without approved signature and special seal;
- 2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested.
- 4. The "n" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation.
- 5. Without written approval of HCT, this report can't be reproduced except in full.
- 6. For any claim of the report, just refer to the testing unit in 15 days, in case it is not in the above limited time, the claim shall be dismissed.
- 7. If not explicitly stated otherwise in the standard, the test is passed if the measured value is equal to or below (above) the limit line, regardless of the measurement uncertainty. If the measured value is above (below) the limit line, the test is not passed.
- 8. Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EA-4/02(Dec.1999), IEC Guide 115:2007, CNAS-GL007:2020, CNAS-CL01-G003:2021 and other relevant internal HCT-procedures.
- Further information about measurement uncertainties will be given on request.

  9. All instruments used in the tests given in this test report are calibrated and traceable to national or

international standards. Further information about traceability will be given on request.

-- End of Test Report--

TRF No. IEC62368\_1D