

TEST REPORT

Reference No. WTF20X08055953S

Applicant Mid Ocean Brands B.V.

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Address:

Hong Kong

Manufacturer..... Mid Ocean Brands B.V.

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Address

Hong Kong

Product Bluetooth Headphone

Model(s)..... MO9168

Total pages..... 62 pages

Standards EN 62368-1:2014+A11:2017

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Test Report Form No...... WTX EN62368 1 2014B

August 15, 2020 Date of Receipt sample....

August 15, 2020 - October 09, 2020 Date of Test

October 13, 2020 Date of Issue

Test Result Pass

Remarks:

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

Prepared By:

WALTEK Testing Group (Shenzhen) Co., Ltd.

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

> Tel: +86-755-33663308 Fax:+86-755-33663309

Tested by Compiled by:

Seven Li/Testing Engineer

Dena Zhang / Project Engineer





Test item description	: Bluetooth Headphone
Trademark	: N/A
Model and/or type reference	: MO9168
Rating(s)	: Input: 5V===0.5A
with the the	Rechargeable Li-ion Battery Capacity: 3.7V, 300mAh
Remark:	of the the wife and any and any
Whether parts of tests for the proc	luct have been subcontracted to other labs:
☐ Yes	No of the lifet with with with with the
If Yes, list the related test items ar	nd lab information:
Test items:	

Summary of testing:

Lab information: --

Tests performed (name of test and test clause):

- EN 62368-1:2014+A11:2017

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

Testing location:

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

Copy of marking plate:

Bluetooth Headphone

Model No.: MO9168 Input: 5V==-0.5A

Rechargeable Li-ion Battery Capacity: 3.7V, 300mAh

Importer Name: XXX Importer Address: XXX Mid Ocean Brands B.V.

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong

Kong

Made In China

Remark:

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

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

Reference No.: WTF20X08055953S Page 3 of 62

	N.
Ā	
J	18
7	

TEST ITEM PARTICULARS:	A LEK TEK TEK STEE STEE STEEL STOLE
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person☐ Children likely to be present
Supply Connection:	☐ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/ <u>-</u> % ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not directly connected to the mains
Considered current rating of protective device as part of building or equipment installation:	N/A; Installation location: ☐building; ☐equipment
Equipment mobility::	☐ movable ☐ hand-held ☐ transportable ☐ stationary ☐ for building-in ☐ direct plug-in ☐ rack-mounting ☐ wall-mounted
Over voltage category (OVC):	OVC I OVC II OVC III OVC IV other: not directly connected to the mains
Class of equipment	☐ Class I ☐ Class II ☐ Class III
Access location	☐ restricted access location ☒ N/A
Pollution degree (PD)	☐ PD 1 ⊠ PD 2 ☐ PD 3
Manufacturer's specified maxium operating ambient:	40°C
IP protection class:	
Power Systems:	☐ TN ☐ TT ☐ IT – V _{L-L} ☐ not AC mains
Altitude during operation (m)	⊠ 2000 m or less
Altitude of test laboratory (m):	⊠ 2000 m or less m
Mass of equipment (kg):	☑ 0.149Kg
of the life of the	LIFE WALL MAL AND



Reference No.: WTF20X08055953S Page 4 of 62

POSSIBLE TEST CASE VERDICTS:	A LEK TEK TEK LITER NITER MILITER
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	TEX STEE SLITE STATE WALL WALL
Date of receipt of test item	August 15, 2020
Date (s) of performance of tests:	August 15, 2020 – October 09, 2020
t tex trex street outles made would be	The second second
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☑ Not applicable
When differences exist; they shall be identified in the	ne General product information section.
Name and address of factory (ies):	Same as manufacturer
GENERAL PRODUCT INFORMATION:	The Mr. Mr. Mr. And And
Product Description 1. The product covered in this report is a Bluetooth Heacommunication technology equipment. 2. As the applicant declares, the Max. ambient temper	the set of
Model Differences N/A	EX TEX LIEX WHITEX WHITEX WHITEX WHITEX
Additional application considerations – (Consideration)	ations used to test a component or sub-assembly)

Page 5 of 62

Reference No.: WTF20X08055953S



ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

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

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

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input, ES1

Source of electrical energy	Corresponding classification (ES)		
All internal circuit/components	ES1		

Electrically-caused fire (Clause 6):

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

Source of power or PIS	Corresponding classification (PS)
All internal circuits/components	PS1
Battery pack output	PS1 w
Battery cell output	PS1 TEX TEX NITE WILL MALE

Injury caused by hazardous substances (Clause 7)

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

Example: Liquid in filled componentGlycol

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

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unitMS2

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

Thermal burn injury (Clause 9)

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

Example: Hand-held scanner - thermoplastic enclosure

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

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD - Class 1 Laser Product

Type of radiation	Corresponding classification (RS)		
Headphone	RS2		

Reference No.: WTF20X08055953S

Page 6 of 62



ENERGY SOURCE DIAGRAM

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

 \boxtimes ES

⊠ PS

 \boxtimes MS

 \boxtimes TS

 \boxtimes RS

Details see ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE

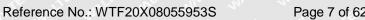
Clause	Possible Hazard				
5.1	Electrically-caused injury			NI WILL	
Body Part	Energy Source	12. 11.	Safeguards	et et	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	ES1: All circuits inside the equipment enclosure	N/A	N/A white	N/A M	
6.1	Electrically-caused fire	7 / 2	H TEX STEE	CLIEK WIT	
Material part	Energy Source	MU	Safeguards		
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
All internal circuits/components	PS1: All circuits inside the equipment enclosure	N/A	N/A	N/A	
Battery pack	PS1: Battery pack	N/A	N/A	N/A	
7.1 Tel Life Miles	Injury caused by hazardous	s substances	et et set	CIER OL	
Body Part	Energy Source (hazardous material)			14, 14,	
(e.g., skilled)		Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused injury	,	A TEXT	IEX LIER	
Body Part	Energy Source		Safeguards	111	
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	MS1: Mass of the unit	N/A	N/A	N/A	
Ordinary	MS1: Edges and corners	N/A	N/A	N/A	
9.1	Thermal Burn	Mr. M.	75. X	et et	
Body Part	Energy Source	TEX LIER	Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary	TS1: Accessible surfaces	N/A	N/A	N/A	
10.1	Radiation	711, 2	, , , , , , , , , , , , , , , , , , ,	. Lit	
Body Part	Energy Source	- LIER N	Safeguards	Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
Ordinary	RS2: Headphone	N/A	N/A	N/A	

Supplementary Information:

(1) See attached energy source diagram for additional details.

(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault





Kelelelice i	10 W 11 20X0000559555	rage roro	2 The will will	ar an
**	TEX TEX STEE WIT	EN 62368	÷-1	at let let
Clause	Requirement – Test	A TEX	Result – Remark	Verdict

4	GENERAL REQUIREMENTS	EX JEX LIEX NITER WIFE	P
4.1.1	Acceptance of materials, components and subassemblies	the set set set	P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. (see appended table 4.1.2)	TEK OM
4.1.3	Equipment design and construction	Evaluation of safeguards limiting the source supplying outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered.	P LITE W
4.1.15	Markings and instructions	(See Annex F)	P
4.4.4	Safeguard robustness	a Will Muli Aut Aut	A. b
4.4.4.2	Steady force tests	(See Annex T)	P
4.4.4.3	Drop tests:	(See Annex T.7)	Р
4.4.4.4	Impact tests:	EX TEX TEX LIFE	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	The external enclosure cannot be opened without tool.	
4.4.4.6	Glass Impact tests	No glass used	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	No such safeguard used	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective.	P
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	P
4.6	Fixing of conductors	me me me	N/A
4.6.1	Fix conductors not to defeat a safeguard	TEX SITES WITE WITE WITE	N/A
4.6.2	10 N force test applied to:	A	N/A
4.7	Equipment for direct insertion into mains socket - outlets	Not such equipment	N/A
4.7.2	Mains plug part complies with the relevant standard	Whitek Whitek Whiteh Whiteh	N/A
4.7.3	Torque (Nm):	of let let liter of	N/A
4.8	Products containing coin/button cell batteries	No such battery used	N/A
4.8.2	Instructional safeguard	at at all all all	N/A



Reference No.: WTF20X08055953S Page 8 of 62

EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
4.8.3	Battery Compartment Construction	at the the the	N/A
CIEX N	Means to reduce the possibility of children removing the battery	the text text	TEX STEE
4.8.4	Battery Compartment Mechanical Tests:	MULL MULL MULL	N/A
4.8.5	Battery Accessibility	LEK TEK TEK	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	mer mer mer m	P It It

5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	ES1 / /	NI P
5.2.2.2	Steady-state voltage and current	(See appended table 5.2.2.2)	Р
5.2.2.3	Capacitance limits:	No such capacitor	N/A
5.2.2.4	Single pulse limits	No single pulse	N/A
5.2.2.5	Limits for repetitive pulses	No repetitive pulses	N/A
5.2.2.6	Ringing signals:	No analogue telephone network ringing signals	N/A
5.2.2.7	Audio signals	The Mar Mr. M.	Р
5.3	Protection against electrical energy sources	Supplied by 5.0Vd.c. max. No energy hazards in operator access area.	P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	LIFEK WILLER WALTER WALTER WAL	P
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
5.3.2.2	Contact requirements	TEN OUTE	N/A
1 1	a) Test with test probe from Annex V	Mr. M. M.	N/A
WALT	b) Electric strength test potential (V)	TEX LIER OLITER WITE ON	N/A
- 0	c) Air gap (mm)	in in the	N/A
5.3.2.4	Terminals for connecting stripped wire	TEX SITES ON THE MILE WALL	N/A
5.4	Insulation materials and requirements	The state of the s	N/A
5.4.1.2	Properties of insulating material	ex rife wife while will	N/A
5.4.1.3	Humidity conditioning	No such material used	N/A
5.4.1.4	Maximum operating temperature for insulating materials	WHITE WHITE WHITE WALL V	N/A
5.4.1.5	Pollution degree	LIEK ALTER MITE WALTER WA	4
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	THE THE LIER SLIER WITH	N/A
5.4.1.5.3	Thermal cycling	Mr. Mr. Mr.	N/A



Reference No.: WTF20X08055953S Page 9 of 62

Clause	Requirement – Test	Result – Remark	Verdict
	of the the the till will the	n n	+ + + + + + + + + + + + + + + + + + +
5.4.1.6	Insulation in transformers with varying dimensions	TEX MITER MITER MITE	N/A
5.4.1.7	Insulation in circuits generating starting pulses	t at all set	N/A
5.4.1.8	Determination of working voltage	Mur Mur Mur	N/A
5.4.1.9	Insulating surfaces	LEK LEK LEK	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	whi with the si	N/A
5.4.1.10.2	Vicat softening temperature	lie while whi wh	N/A
5.4.1.10.3	Ball pressure	at at all	N/A
5.4.2	Clearances	MULL MULL MULL	N/A
5.4.2.2	Determining clearance using peak working voltage	TEX MITER MILIER	N/A
5.4.2.3	Determining clearance using required withstand voltage	NITER OUTER NO	N/A
. LEX	a) a.c. mains transient voltage	24, 25, 7	at at all
mr w	b) d.c. mains transient voltage	a white while	MUT. MUT.
TEX S	c) external circuit transient voltage:	a at at	Tet Jet
it in	d) transient voltage determined by measurement:	the war war	Mr. Mr A
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	White Write white a	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	NITER WHITER WHITER WH	N/A
5.4.3	Creepage distances	TE SEE	N/A
5.4.3.1	General	W. William	N/A
5.4.3.3	Material Group	LE TEX	NITER MITER
5.4.4	Solid insulation	Mr. Mr. M.	N/A
5.4.4.2	Minimum distance through insulation:	TEK TEK TEK	N/A
5.4.4.3	Insulation compound forming solid insulation	Mr. Mr. Mr. D.	N/A
5.4.4.4	Solid insulation in semiconductor devices	TEX LIFE SLIFE WIL	N/A
5.4.4.5	Cemented joints	711. 121. 12.	N/A
5.4.4.6	Thin sheet material	ex liex when which	N/A
5.4.4.6.1	General requirements	141, 12, 12, 14	N/A
5.4.4.6.2	Separable thin sheet material	WITE WITE WALLE	N/A
it let	Number of layers (pcs)	20, 20	N/A
5.4.4.6.3	Non-separable thin sheet material	RITER SIRITE WALLE WA	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	et let let let	N/A



Reference No.: WTF20X08055953S Page 10 of 62

* (6*	EN 62368	D- I	et et se
Clause	Requirement – Test	Result – Remark	Verdict
5.4.4.6.5	Mandrel test		N/A
5.4.4.7		LER TE WITE WILL	N/A
	Solid insulation in wound components		
5.4.4.9	Solid insulation at frequencies >30 kHz:	White will wall	N/A
5.4.5	Antenna terminal insulation	A 10 10 10	N/A
5.4.5.1	General	with with the of	N/A
5.4.5.2	Voltage surge test	at at at	N/A
1/1, 1	Insulation resistance (MΩ)	The Mary our Mus	10, 10,
5.4.6	Insulation of internal wire as part of supplementary safeguard	EX TEX STEX NITES	N/A
5.4.7	Tests for semiconductor components and for cemented joints	TEX TEX LIEX	N/A
5.4.8	Humidity conditioning	The same of	N/A
MILLE	Relative humidity (%):		LIE WILL
	Temperature (°C):	21/2 21/2 21/2	L -st
White	Duration (h):	TER NITER WIT	WILL MUTT
5.4.9	Electric strength test:		N/A
5.4.9.1	Test procedure for a solid insulation type test	y the street with	M/A
5.4.9.2	Test procedure for routine tests	4 4	N/A
5.4.10	Protection against transient voltages between external circuit	White white white w	N/A
5.4.10.1	Parts and circuits separated from external circuits	NITER WHITER WHITER WHI	N/A
5.4.10.2	Test methods	- AB SE	N/A
5.4.10.2.1	General	y Cr. My	N/A
5.4.10.2.2	Impulse test:	F LIL BYTER	N/A
5.4.10.2.3	Steady-state test:	Mr. M. M.	N/A
5.4.11	Insulation between external circuits and earthed circuitry:	WHITEK WHITEK WHITEK WE	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	LIEK WIEK WIFEK WAL	N/A
5.4.11.2	Requirements		N/A
11. 11.	Rated operating voltage U _{op} (V):	E MITTE WALTE WALTE	Mr. Mr.
TEX JE	Nominal voltage U _{peak} (V):		TEK JEE
71/2	Max increase due to variation U _{sp} :	White White White	
it still	Max increase due to ageing ΔU_{sa} :	at at alt	TEX VEY LIT
2112	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa} $:	With Mill Mill My	-11-
5.5	Components as safeguards	1 1 1 1 1	+ 10- 11



Reference No.: WTF20X08055953S Page 11 of 62

Clause	Requirement – Test	Result – Remark	Verdict
Ciause	Requirement - rest	Troduit - Itomain	Verdict
5.5.1	General	Et TEX JEX JEX	N/A
5.5.2	Capacitors and RC units	me me m	N/A
5.5.2.1	General requirement	CA TEX LIER OLITER OF	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	the text item of	N/A
5.5.3	Transformers	any any any an	N/A
5.5.4	Optocouplers	LEK TEK LIEK ALTER	N/A
5.5.5	Relays	in my mi	N/A
5.5.6	Resistors	EX TEX STEX WITE.	N/A
5.5.7	SPD's	14 14 14	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	Y TEX SITER WITE NO	N/A
5.5.7.2	Use of an SPD between mains and protective earth	TEN TEN TEN	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	Who who was	N/A
5.6	Protective conductor	The wall was	N/A
5.6.2	Requirement for protective conductors	at the text	N/A
5.6.2.1	General requirements	The Mar My	N/A
5.6.2.2	Colour of insulation	Et TEK ITEK AL	N/A
5.6.3	Requirement for protective earthing conductors	White with the the	N/A
7/1	Protective earthing conductor size (mm²):	VILL MULL MULL MULL	111, 11,
5.6.4	Requirement for protective bonding conductors	TEV TEX	N/A
5.6.4.1	Protective bonding conductors	i un i	N/A
LIFE ME	Protective bonding conductor size (mm²):	LE A TEXT	LIER OLIE-
	Protective current rating (A):	Mr. Mr. M. M.	
5.6.4.3	Current limiting and overcurrent protective devices	antiek water water	N/A
5.6.5	Terminals for protective conductors	at let let let	N/A
5.6.5.1	Requirement	in win my min	N/A
WALTER ON	Conductor size (mm²), nominal thread diameter (mm):	et milet whilet whilet	N/A
5.6.5.2	Corrosion	at at alt	N/A
5.6.6	Resistance of the protective system	MULL MALL MALL MAN	N/A
5.6.6.1	Requirements	at let let le	N/A
5.6.6.2	Test Method Resistance (Ω):	Write Mury Mury Must	N/A
5.6.7	Reliable earthing	et let let let	N/A
5.7	Prospective touch voltage, touch current and pr	rotective conductor current	N/A



Reference No.: WTF20X08055953S Page 12 of 62

	EN 62368	3-1	
Clause	Requirement – Test	Result – Remark	Verdict
با	at let the ite out was	11. 24. 2.	4 4
5.7.2	Measuring devices and networks	rex tex liter outs	N/A
5.7.2.1	Measurement of touch current	. Mus Mr. M.	N/A
5.7.2.2	Measurement of prospective touch voltage	t tex alter alter	N/A
5.7.3	Equipment set-up, supply connections and earth connections	ist test the	N/A
t JEX	System of interconnected equipment (separate connections/single connection)	mer mer me m	
M	Multiple connections to mains (one connection at a time/simultaneous connections)	The Mult must must	- LEK ZEK
5.7.4	Earthed conductive accessible parts	EX SLIER WILL WALL	.√N/A
5.7.5	Protective conductor current	The state of	N/A
ir me	Supply Voltage (V)	DE TENNITE WALL	11 1 1 1 1
ek tek	Measured current (mA)	The state of the s	TEX TEX
m	Instructional Safeguard	Write Mury M	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	ALTER WALTER WALT	et unit N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	the mile me	N/A
5.7.7	Summation of touch currents from external circuits	MILIER WHITE WHITE V	N/A
WALTER	a) Equipment with earthed external circuits Measured current (mA)	NITER WHITER WHITER WH	N/A
MITEK	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	A TEN SUITE	N/A

6 41	ELECTRICALLY- CAUSED FIRE	P viii
6.2	Classification of power sources (PS) and potential ignition sources (PIS)	TEL P TE
6.2.2	Power source circuit classifications	n P
6.2.2.1	General	TI PIE
6.2.2.2	Power measurement for worst-case load fault (See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault	WALT P W
6.2.2.4	PS1 (See appended table 6.2.2)	P
6.2.2.5	PS2	N/A
6.2.2.6	PS3	N/A
6.2.3	Classification of potential ignition sources	Р
6.2.3.1	Arcing PIS	P
6.2.3.2	Resistive PIS	Р



Reference No.: WTF20X08055953S Page 13 of 62

EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
6.3	Safeguards against fire under normal operating a	and abnormal operating conditions	P
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure	No combustible materials outside fire enclosure	N/A
6.4	Safeguards against fire under single fault condition	ons	, P
6.4.1	Safeguard Method	Method of "control of fire spread" is used. Fire enclosure provided.	NP.
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX WAITER WAITER WAITER WAITER	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	O TEX MITEX WALTER WALTER	N/A
6.4.3.1	General	The state of the s	N/A
6.4.3.2	Supplementary Safeguards	White White White Wh	N/A
WALTER	Special conditions if conductors on printed boards are opened or peeled	CLIEK NITEK MITEK WALT	N/A
6.4.3.3	Single Fault Conditions		Р
ing an	Special conditions for temperature limited by fuse	STEE WALTER WHILE WALL	N/A
6.4.4	Control of fire spread in PS1 circuits	TEX LIER ALTER WITE W	LIV Pur
6.4.5	Control of fire spread in PS2 circuits	Mr. Mr. Mr.	L P
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - Printed board: rated min. V-0 - Battery cells: complying with IEC/EN 62133. Fire enclosure rated HB used.	WALTER WALTER
6.4.6	Control of fire spread in PS3 circuit	The sale in the sale .	N/A
6.4.7	Separation of combustible materials from a PIS	THE STEE WITH MITTER OF	N/A
6.4.7.1	General		N/A
6.4.7.2	Separation by distance	TER WITE WILL WALL WALL	N/A
6.4.7.3	Separation by a fire barrier	The state of the	N/A
6.4.8	Fire enclosures and fire barriers	ex write write while while	nu. b
6.4.8.1	Fire enclosure and fire barrier material properties	TEX STEX WIFEX WIFEX	N/A
6.4.8.2.1	Requirements for a fire barrier	No such barrier used	N/A
6.4.8.2.2	Requirements for a fire enclosure	ITEX ALTER WITE WALL MA	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	the tex stex stex with	P
6.4.8.3.1	Fire enclosure and fire barrier openings	. Mr. Mr. Mr.	N/A



Reference No.: WTF20X08055953S Page 14 of 62

	EN 62368	3-1	
Clause	Requirement – Test	Result – Remark	Verdict
٠,	it let the ite with which	Ar In 2.	4 1
6.4.8.3.2	Fire barrier dimensions	No fire barrier	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	No openings	N/A
10.	Needle Flame test	Mr. Mr. Mu	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	No openings	N/A
MALTEK.	Flammability tests for the bottom of a fire enclosure	Tet alter miter uni	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	et set set set	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	and the tex	N/A
6.5	Internal and external wiring	Mr. July War.	N/A
6.5.1	Requirements	et let	N/A
6.5.2	Cross-sectional area (mm²)	Mur. Mur. M.	70
6.5.3	Requirements for interconnection to building wiring	nitek whitek whit	N/A
6.6	Safeguards against fire due to connection to additional equipment	A LIER WILER WHILER	WALTER WALTP
TEX WITE	External port limited to PS2 or complies with Clause Q.1	fet test steet	SLIEF SLIEFP

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	P INTERNAL INP
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards (PPE)	N/A
.4	Personal safeguards and instructions	_
7.5	Use of instructional safeguards and instructions	N/A
ALTE	Instructional safeguard (ISO 7010)	A STEE WITH WITH
7.6	Batteries	P

8	MECHANICALLY-CAUSED INJURY		P
8.1	General	Enclosure is smooth and no mechanical energy sources	P.V
8.2	Mechanical energy source classifications	MS1-	Р
8.3	Safeguards against mechanical energy sources	We All All All All All All All All All Al	Р
8.4	Safeguards against parts with sharp edges and corners	Edges and corners are classed as MS1.	W/P



Reference No.: WTF20X08055953S Page 15 of 62

x et	EN 6236	8-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict
8.4.1	Safeguards	an the text of	N/A
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	MILER WAITER WAITER	M/A M
8.5.2	Instructional Safeguard	EL TEX TEX	LITER OF THE
8.5.4	Special categories of equipment comprising moving parts	Must me my m	N/A
8.5.4.1	Large data storage equipment	ATTE WALL WALL WA	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	EK WILEK MUTEK MUTE	N/A w
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts	I TE WALL WALL	N/A
EX LIEK	Instructional Safeguard	. At let	TEX . —
8.5.4.2.3	Disconnection from the supply	MUT, MUT, MI	N/A
8.5.4.2.4	Probe type and force (N)	LEK TEK J	N/A
8.5.5	High Pressure Lamps	in with the	N/A
8.5.5.1	Energy Source Classification	TEX TEX SITES	N/A
8.5.5.2	High Pressure Lamp Explosion Test	711	N/A
8.6	Stability	ITEX SITER WITE.	N/A
8.6.1	Product classification	20, 20, 20,	N/A
Me	Instructional Safeguard	. Not required	in -
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	is the state of th	N/A
JEK J	Applied Force	· C A LET	TEK -
8.6.2.3	Downward Force Test	The The The	N/A
8.6.3	Relocation stability test	et set set	N/A
77	Unit configuration during 10° tilt	Mur Mr Mr M	
8.6.4	Glass slide test	TEX TEX TEX OU	N/A
8.6.5	Horizontal force test (Applied Force)	in me me	N/A
NUTTE VIL	Position of feet or movable parts	et jet aliet mie	white —
8.7	Equipment mounted to wall or ceiling	74 - 74 - 24 - 24 - 24 - 24 - 24 - 24 -	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	White White White	N/A
8.7.2	Direction and applied force	TEK ITEK ITEK	N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	CENT TENT TENT ST	N/A



Reference No.: WTF20X08055953S Page 16 of 62

	EN 6236	88-1	
Clause	Requirement – Test	Result – Remark	Verdict
	it let tel tel tel tel tell with	14, 14, 2,	
8.8.2	Applied Force	TEX TEX TEX WITE	N/A
8.9	Wheels or casters attachment requirements	Not such equipment	N/A
8.9.1	Classification	the tex alter which	N/A
8.9.2	Applied force	m m m	* -
8.10	Carts, stands and similar carriers	Not such equipment	N/A
8.10.1	General	211 211	N/A
8.10.2	Marking and instructions	LIER RIFE WITE WILL	N/A
All the	Instructional Safeguard		7EH -
8.10.3	Cart, stand or carrier loading test and compliance		N/A
in mi	Applied force	A TEX RITER MAITER IN	N. 1 —
8.10.4	Cart, stand or carrier impact test	3 1	J- N/A
8.10.5	Mechanical stability	White White Whi	N/A
TEX	Applied horizontal force (N)		- 16 -
8.10.6	Thermoplastic temperature stability (°C)	mit was was	N/A
8.11	Mounting means for rack mounted equipment	Not such equipment	N/A
8.11.1	General	ice and and	N/A
8.11.2	Product Classification	EL TEL TEL	N/A
8.11.3	Mechanical strength test, variable N	MUTT MUT MUT AND	N/A
8.11.4	Mechanical strength test 250N, including end stops	NIFE MILIER WALTER WALT	N/A
8.12	Telescoping or rod antennas	- PA TEN	N/A
711. 1	Button/Ball diameter (mm)	The Way	m

9	THERMAL BURN INJURY	me m m	Р
9.2	Thermal energy source classifications	TEX TEX STEX WITE ON	P
9.3	Safeguard against thermal energy sources	Mr. Mr. M. M.	P
9.4	Requirements for safeguards	TEX LIER NIFER MITE MITE	, P
9.4.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	MALTER WALT
9.4.2	Instructional safeguard	the state of the state of	LEK TIEK

10	RADIATION	N/A
10.2	Radiation energy source classification	N/A



Reference No.: WTF20X08055953S Page 17 of 62

t cert	EN 62368		
Clause	Requirement – Test	Result – Remark	Verdict
10.2.1	General classification	cet test test outer inte	N/A
10.3	Protection against laser radiation	My All All All	N/A
NITE WILL	Laser radiation that exists equipment:	* IFE STEE WITE WITE	Juli — J
at at	Normal, abnormal, single-fault	The ship is	N/A
WILL	Instructional safeguard	LIER WILL WILL MILL	<i>u</i> —
- LEX	Tool	My 20, T St SEX	
10.4	Protection against visible, infrared, and UV radiation	LITER WALL WALL WALL WE	N/A
10.4.1	General	EX LIEX NLIER WITE WALL	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	The second second	N/A
10.4.1.b)	RS3 accessible to a skilled person	OFFIC NALTE WALLE	N/A
ek whitek	Personal safeguard (PPE) instructional safeguard	if the street outset of	IN TEX WILL
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1	THE THE THE	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions	her my my my	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	A CITER MATER MATER MATE	N/A
10.4.1.f)	UV attenuation	t ex ex tex	N/A
10.4.1.g)	Materials resistant to degradation UV	White Muti and any	N/A
10.4.1.h)	Enclosure containment of optical radiation	ex ret ret tret	N/A
10.4.1.i)	Exempt Group under normal operating conditions	Mar and the	N/A
10.4.2	Instructional safeguard	if the party was	N/A
10.5	Protection against x-radiation	LE TEN	N/A
10.5.1	X- radiation energy source that exists equipment	The The The Me	N/A
MUL	Normal, abnormal, single fault conditions	WILL WILL MALLE MALL	N/A
EX	Equipment safeguards	an the set	N/A
11/2 1	Instructional safeguard for skilled person	LIFE MILLE MALL WILL WE	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	ex crex night mifes while	ex writex.
. A. A.	Abnormal and single-fault condition	Mr. Mr. St. Ct.	N/A
MUL	Maximum radiation (pA/kg)	LITER MITE WALTE WALL	N/A
10.6	Protection against acoustic energy sources	an the set	P.
10.6.1	General	alier while wall w	N/A
10.6.2	Classification	RS2	N/A
Mr. M	Acoustic output, dB(A)	. L: 86.4 dB(A); R: 89.12 dB(A)	N/A



Reference No.: WTF20X08055953S Page 18 of 62

TCICICIO	7110 11 11 20/10000000000	1 ago 10 01 02	W. W.		
EN 62368-1					
Clause	Clause Requirement – Test Result – Remark				
JEK	Output voltage, unweightedr.m.s		N/A		
10.0.1	Date (in factor)		D 101.01		

MITE	Output voltage, unweightedr.m.s	TEX TEX LIFE SLITER MITE	N/A
10.6.4	Protection of persons	The My And	Р
NITE WAL	Instructional safeguards	* TEX STEEL WITE WITE	Unit P unit
EK MITE	Equipment safeguard prevent ordinary person to RS2	of the tex tex	_
L JEK	Means to actively inform user of increase sound pressure	MULT MULT MULT MULT THE	_
Au .	Equipment safeguard prevent ordinary person to RS2	THE MULL MULL MULL MILE	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	the writer write write whi	N/A
10.6.5.1	Corded passive listening devices with analog input	ME TEX MILIER WHITE WHITE	N/A
WALTER	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	WHITEK WALTER WALTER WA	_
10.6.5.2	Corded listening devices with digital input	at the state of	N/A
Mr. M	Maximum dB(A)	d write murit must me	_
10.6.5.3	Cordless listening device	a st set set set	(P
24,	Maximum dB(A)	. 89.12 dB(A)	_

B	NORMAL OPERATING CONDITION TESTS, CONDITION TESTS AND SINGLE FAULT CO		P
B.2	Normal Operating Conditions	WILE MILL AND AND AND AND	ΥР
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	JIN P
NITEK WA	Audio Amplifiers and equipment with audio amplifiers	the state of the s	WITE P
B.2.3	Supply voltage and tolerances	Mr. M. M.	Р
B.2.5	Input test	(See appended table B.2.5)	L B
B.3	Simulated abnormal operating conditions		+ P
B.3.1	General requirements	TER RITER WITE WILL MI	WP.
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test	TER WILL MILL MULL MULL	N/A
B.3.4	Setting of voltage selector	No such voltage selector	N/A
B.3.5	Maximum load at output terminals	with antity with white	N/A
B.3.6	Reverse battery polarity	t at at at	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	WILL MULL MAIN AND AND	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3)	W P



Reference No.: WTF20X08055953S Page 19 of 62

	EN 6236	8-1	.
Clause	Requirement – Test	Result – Remark	Verdict
.4	IN LET THE THE NITE WAY	The Man and American	1 1
B.4	Simulated single fault conditions		LITE UN P
B.4.2	Temperature controlling device open or short-circuited	No such controlling device	N/A
B.4.3	Motor tests	No motors used	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	WILLER WHITEK WHITEK WHITE	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	AND P
B.4.4.3	Short circuit of functional insulation on coated printed boards	White Mile Mile Mile	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	WALE OF
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	NLTEX WAR
B.4.7	Continuous operation of components	t at	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	(See appended table B.4)	, Mu P
B.4.9	Battery charging under single fault conditions	(see Annex M)	N P
t et	THE THE LITE TO THE	Mr. In In	et a
Carr	UV RADIATION	LIER NITER WITE WITE	N/A
C.1	Protection of materials in equipment from UV radiation	t Till Alliet	N/A
C.1.2	Requirements		N/A
042	Tast weathers		NI/A

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

D	TEST GENERATORS	N/A
D.1	Impulse test generators	N/A
D.2	Antenna interface test generator	N/A
D.3	Electronic pulse generator	N/A



Reference No.: WTF20X08055953S Page 20 of 62

11.10.0.34.00			
* 11	LIEK LIEK ALTER MITE	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

= 1	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	N/A
VILLE V	Audio signal voltage (V)	
	Rated load impedance (Ω)	- t-
E.2	Audio amplifier abnormal operating conditions	N/A

Funk	EQUIPMENT MARKINGS, INSTRUCTIONS, A SAFEGUARDS	ND INSTRUCTIONAL	ΝP
F.1	General requirements	EX ITEX NITER WITE WHITE	un'P
at a	Instructions – Language	English	
F.2	Letter symbols and graphical symbols	TER RITER MALTER MALTER	N Pul
F.2.1	Letter symbols according to IEC60027-1	and the second	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	MILLE MILL MUE AND	Р
F.3	Equipment markings	LIER OLIER OLIER MILE	SUL P
F.3.1	Equipment marking locations	Located on the enclosure surface	P
F.3.2	Equipment identification markings	LIER WILL MULTER WALLE	W. P
F.3.2.1	Manufacturer identification	(See copy of marking plate)	P
F.3.2.2	Model identification	(See copy of marking plate)	Р
F.3.3	Equipment rating markings		P
F.3.3.1	Equipment with direct connection to mains	NITE WILL WALL WALL WALL	N/A
F.3.3.2	Equipment without direct connection to mains	LE THE THE	Р
F.3.3.3	Nature of supply voltage	(See copy of marking plate)	A P
F.3.3.4	Rated voltage	(See copy of marking plate)	P
F.3.3.4	Rated frequency	The The The The	N/A
F.3.3.6	Rated current or rated power	(See copy of marking plate)	P
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection	N/A
F.3.4	Voltage setting device	No such device	N/A
F.3.5	Terminals and operating devices	m m m	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlets or socket-outlets	N/A
F.3.5.2	Switch position identification marking	No switches	N/A
F.3.5.3	Replacement fuse identification and rating markings	which was an all the	N/A
F.3.5.4	Replacement battery identification marking	WILL MULL AND AND AND	N/A
F.3.5.5	Terminal marking location		N/A



Reference No.: WTF20X08055953S Page 21 of 62

x cex	EN 62368	3-1	et de
Clause	Requirement – Test	Result – Remark	Verdict
F.3.6	Equipment markings related to equipment classification	TEK WHITEK WHITEK WHITE	N/A
F.3.6.1	Class I Equipment	Class III	N/A
F.3.6.1.1	Protective earthing conductor terminal	Write Aut. Aut. My	N/A
F.3.6.1.2	Neutral conductor terminal	LEK TEK TEK TEK	N/A
F.3.6.1.3	Protective bonding conductor terminals	me me me m	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	Class III	N/A
F.3.6.2.1	Class II equipment with or without functional earth	t at alt the	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	Must Aug Aug Aug	N/A
F.3.7	Equipment IP rating marking	IP20	12 -11
F.3.8	External power supply output marking	at at tet.	N/A
F.3.9	Durability, legibility and permanence of marking	when men we we	P
F.3.10 WALTER WALTER	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	MP Miller Whiter Whiter Whiter
F.4	Instructions	write must must make any	Р
NALTER W	a) Equipment for use in locations where children not likely to be present - marking	TE WAITE WAITE	N/A
JEX J	b) Instructions given for installation or initial use	the set set	P
111	c) Equipment intended to be fastened in place	The Mr. Mr. Mr.	N/A
EX WITEX	d) Equipment intended for use only in restricted access area	SLITER WILLER MULTER ON	N/A
MULIER	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	THE MULTER MULTER WILLER WILL	N/A
CLIER IN	f) Protective earthing employed as safeguard	at let tex tex stex	N/A
TEX IN	g) Protective earthing conductor current exceeding ES2 limits	Must me my my	N/A
M	h) Symbols used on equipment	intite white white white	P ₁
MULTER	i) Permanently connected equipment not provided with all-pole mains switch	LIET WIFE WIFE WAITER WA	N/A
anitek a	j) Replaceable components or modules providing safeguard function	THE THE LITTER STITES WITH	N/A
F.5	Instructional safeguards	Mr. Mr. M. M.	Р



Reference No.: WTF20X08055953S Page 22 of 62

	EN 62368	3-1	
Clause	Requirement – Test	Result – Remark	Verdict
MITER	Where "instructional safeguard" is referenced in the test report it specifies the required	TEK STEK STEK MITEK M	LITE OF P

G-	COMPONENTS		N/A
G.1	Switches	WILL WILL MILL	N/A
G.1.1	General requirements	No such component	N/A
G.1.2	Ratings, endurance, spacing, maximum load	The Write Muri Aug	N/A
G.2	Relays	at at lest lest	N/A
G.2.1	General requirements	No such component	N/A
G.2.2	Overload test	- EX TEX TEX	N/A
G.2.3	Relay controlling connectors supply power	an and an an	N/A
G.2.4	Mains relay, modified as stated in G.2	TEX TEX NITE	N/A
G.3	Protection Devices	Mr. Mr. M.	N/A
G.3.1	Thermal cut-offs	No such component	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	TEX WILEX MUTER ON	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	TEX TIES TITES IN	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	CAN THE TEX LIES	N/A
G.3.2	Thermal links	not more my me	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	LE ALL	N/A
70,	Aging hours (H)	The The The The	, , _ ,
EK NITE	Single Fault Condition	ex rex rex in	TEN TEN
20,	Test Voltage (V) and Insulation Resistance (Ω)	Mr. Mr. Mr. M.	- 3" - 3
G.3.3	PTC Thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	in the the the	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	THE THE THE ST	N/A
G.3.5.2	Single faults conditions	Mur, Mr. Mr. Mr.	N/A
G.4	Connectors	TEX TEX STEX WITE	N/A
G.4.1	Spacings	No such component	N/A
G.4.2	Mains connector configuration	CEX TEX TEX TEX	N/A



Reference No.: WTF20X08055953S Page 23 of 62

	EN 62368		
Clause	Requirement – Test	Result – Remark	Verdict
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	TEK WITEK WITEK WITEK	N/A
G.5	Wound Components	at the test	N/A
G.5.1	Wire insulation in wound components	MULL MAL MAL A	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	WILLER MILIER MULTER MAI	N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components	THE MULL MULL MULL	N/A
G.5.2.1	General test requirements	at at agt aget	N/A
G.5.2.2	Heat run test	MULL MULL MULL	N/A
LIEK ONLIE	Time (s)	- tet tet tet	LIEK NIE
	Temperature (°C)	The Me My M	
G.5.2.3	Wound Components supplied by mains	TEK LIFEK MI	N/A
G.5.3	Transformers	Mr. Mr. Mr.	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	No such component	N/A
aliek ani	Position	A CEL TEL TEL	OLIER MIE
<i>y</i> 4	Method of protection	in My My	
G.5.3.2	Insulation	TEX LIEX NITEX OF	N/A
t st	Protection from displacement of windings	Mr. M. M.	4 × -
G.5.3.3	Overload test	ITER SITER WITE WALL	N/A
G.5.3.3.1	Test conditions	12 24 20 2 X	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	i ali jir aniil	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	THE PROPERTY.	N/A
G.5.4	Motors	Mus Mis Mis A	N/A
G.5.4.1	General requirements	No such component	N/A
	Position	My My My	}
G.5.4.2	Test conditions	LIER OLIE WALLE	N/A
G.5.4.3	Running overload test	, , , , , , , , , , , , , , , , , , ,	N/A
G.5.4.4	Locked-rotor overload test	EX MILE MAIL MALL	N/A
TEX JE	Test duration (days)	t at at	TEX JEX
G.5.4.5	Running overload test for d.c. motors in secondary circuits	Multipaner, Mar Au	N/A
G.5.4.5.2	Tested in the unit	LITER NITER WITE WAL	N/A
,L	Electric strength test (V)	12. 22.	



Reference No.: WTF20X08055953S Page 24 of 62

Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	TEK WALTER WALTER WALTER WA	N/A
LIEK NI	Electric strength test (V)		EX CLIER
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	MULT MAN MAN THE	N/A
G.5.4.6.2	Tested in the unit	with white white white	N/A
LIEX	Maximum Temperature	at the first	N/A
411.	Electric strength test (V)	tile more more more	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)	EK NITEK MITEK MITEK MI	N/A
All J	Electric strength test (V)		- N/A
G.5.4.7	Motors with capacitors	The state of the same of the s	N/A
G.5.4.8	Three-phase motors	it at let	N/A
G.5.4.9	Series motors	while male and	N/A
	Operating voltage	EX TEX TEX	LIEN NIE
G.6	Wire Insulation	is the man when the	N/A
G.6.1	General	y tex tex tiex ni	N/A
G.6.2	Solvent-based enamel wiring insulation	y, my, m, m	N/A
G.7	Mains supply cords	TEX TEX TIER WITE	N/A
G.7.1	General requirements	No such mains supply cords	N/A
MALTE	Type	TEX STEEL WITER WITER	الماري الماري
et.	Rated current (A)	V. M. M. A.	
mri. m	Cross-sectional area (mm²), (AWG)	if all life white wh	in.
G.7.2	Compliance and test method	at the state of	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Mr. Mr. Mr. Mart	N/A
G.7.3.2	Cord strain relief	ITEK SITEK MITER MITER	N/A
G.7.3.2.1	Requirements	m. m. m.	N/A
MULL A	Strain relief test force (N)	LIER WILL WILL WILL M	Ur. Mur.
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	ex write write war. We	nv.
G.7.3.2.4	Strain relief comprised of polymeric material	a at at at	N/A
G.7.4	Cord Entry	White Music Mar Music	N/A
G.7.5	Non-detachable cord bend protection	A At Alt Alt	N/A
G.7.5.1	Requirements	Will Mur Aug Aug Aug	N/A
G.7.5.2	Mass (g)	at at the text of	LIE MIE



Reference No.: WTF20X08055953S Page 25 of 62

	EN 62368	3-1	
Clause	Requirement – Test	Result – Remark	Verdict
LTEX (Temperature (°C)	ar at at at	JE JICH
G.7.6	Supply wiring space	The Maria Maria	N/A
G.7.6.2	Stranded wire	t at all all	N/A
G.7.6.2.1	Test with 8 mm strand	Mill with him a	N/A
G.8	Varistors	At Let Jet J	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguard against shock	No such component	N/A
G.8.3	Safeguard against fire	in the the the	N/A
G.8.3.2	Varistor overload test	Et TEX LIEX RUEL	N/A
G.8.3.3	Temporary overvoltage	· in m	N/A
G.6.3.3 G.9	Integrated Circuit (IC) Current Limiters	· set let with	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No such component	N/A
G.9.1 b)	The Mr. As	No such component	N/A
G.9.1 c)	Limiters do not have manual operator or reset Supply source does not exceed 250 VA	W. M. S.	IV/A
G.9.1 d)			MULL AIR
	IC limiter output current (max. 5A)		All IN
G.9.1 e)	Manufacturers' defined drift	TEL NITE WALL	100 - 100 -
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2	MITEL WALTE WALL ON	N/A
G.9.4	Test Program 3	The state of the s	N/A
G.10	Resistors	TIET WALL THE THE	N/A
G.10.1	General requirements	No such component	N/A
G.10.2	Resistor test	i all the	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	We we will the	N/A
G.10.3.1	General requirements	et et et	N/A
G.10.3.2	Voltage surge test	WALL MUE ME ME	N/A
G.10.3.3	Impulse test	EX TEX TEX SITE	N/A
G.11	Capacitor and RC units	VII MI MI MI	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	Mr. M. M.	N/A
G.11.3	Rules for selecting capacitors	ITEK LITEK MITER	N/A
G.12	Optocouplers	Mr. My And The	N/A
WALTER	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	No such component	N/A
211. 24	Type test voltage Vini	The White White Man	111. 111



Reference No.: WTF20X08055953S Page 26 of 62

1			
x . (1)	TEX LIER NITER WITE	EN 62368-1	at the feet
Clause	Requirement – Test	Result – Remark	Verdict

21, 21,	Routine test voltage, Vini,b	1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4
G.13	Printed boards	N/A
G.13.1	General requirements	N/A
G.13.2	Uncoated printed boards	N/A
G.13.3	Coated printed boards	N/A
G.13.4	Insulation between conductors on the same inner surface	N/A
aliek mi	Compliance with cemented joint requirements (Specify construction)	TEX TIPE OLIVER
G.13.5	Insulation between conductors on different surfaces	N/A
	Distance through insulation:	N/A
EK TEK	Number of insulation layers (pcs):	CENT TENT
G.13.6	Tests on coated printed boards	N/A
G.13.6.1	Sample preparation and preliminary inspection	N/A
G.13.6.2a)	Thermal conditioning	N/A
G.13.6.2b)	Electric strength test	N/A
G.13.6.2c)	Abrasion resistance test	N/A
G.14	Coating on components terminals	N/A
G.14.1	Requirements	N/A
G.15	Liquid filled components	N/A
G.15.1	General requirements	N/A
G.15.2	Requirements	N/A
G.15.3	Compliance and test methods	N/A
G.15.3.1	Hydrostatic pressure test	N/A
G.15.3.2	Creep resistance test	N/A
G.15.3.3	Tubing and fittings compatibility test	N/A
G.15.3.4	Vibration test	N/A
G.15.3.5	Thermal cycling test	M' M'A
G.15.3.6	Force test	N/A
G.15.4	Compliance	Mr M/A
G.16	IC including capacitor discharge function (ICX)	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	N/A
b) 4/1	Impulse test using circuit 2 with Uc = to transient voltage	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	N/A



Reference No.: WTF20X08055953S Page 27 of 62

EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
C2)	Test voltage	all the test and	Et MITE MITEL	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	r with whitek whitek	White we we	
D2)	Capacitance	······································	TEX TEX- IT	
D3)	Resistance	MITE WILL WALL V	ur m m	

Han	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
H.1	General	N/A
H.2	Method A	N/A
H.3	Method B	N/A
H.3.1	Ringing signal	N/A
H.3.1.1	Frequency (Hz)	WILL WILL MALLE
H.3.1.2	Voltage (V)	
H.3.1.3	Cadence; time (s) and voltage (V)	ite murit murit a
H.3.1.4	Single fault current (mA):	* /* / * /
H.3.2	Tripping device and monitoring voltage	M/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	N/A
H.3.2.2	Tripping device	N/A
H.3.2.3	Monitoring voltage (V)	The me and

Jur M	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION	
NITE WALL	General requirements	N/A

K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism	w who will the still still	N/A
K.3	Inadvertent change of operating mode	We mer we me me	N/A
K.4	Interlock safeguard override	A SEX TEXT TEXT STEEL	N/A
K.5	Fail-safe	in the Me Me	N/A
IN LITE	Compliance	the text state with the	N/A
K.6	Mechanically operated safety interlocks	in my m	N/A
K.6.1	Endurance requirement	est test ties with	N/A



Reference No.: WTF20X08055953S Page 28 of 62

EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
K.6.2	Compliance and Test method	an an a sign of	N/A	
K.7	Interlock circuit isolation	The Mr. M.	N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	MULTER WHITE WHITE	N/A	
K.7.2	Overload test, Current (A)	CALLER WILL MALL W	N/A	
K.7.3	Endurance test	t it it	N/A	
K.7.4	Electric strength test	LIE WALL WALL WAL	N/A	

<i>T</i> ,	DISCONNECT DEVICES		N/A
L.1	General requirements	Not connected to Mains supply	N/A
L.2	Permanently connected equipment	Fire Mr. My My	N/A
L.3	Parts that remain energized	at the state of the	N/A
L.4	Single phase equipment	The August Augus	N/A
L.5	Three-phase equipment	TEX LIES MITES MIT	N/A
L.6	Switches as disconnect devices	an an an	N/A
L.7	Plugs as disconnect devices	THE TEX STEEL WITH WITH	N/A
L.8	Multiple power sources	The	N/A

M	EQUIPMENT CONTAINING BATTERIES AND	THEIR PROTECTION CIRCUITS	et Pat
M.1	General requirements	LIER RITER WHITE WALLE WAL	√P
M.2	Safety of batteries and their cells	Approved battery used, see also appended table 4.1.2	PX
M.2.1	Requirements		Р
M.2.2	Compliance and test method (identify method)		ni Pani
M.3	Protection circuits	in in the	A P
M.3.1	Requirements	Safeguards considered during charging and discharging cycles as determined for expected and foreseeable use according to the user instructions.	P
M.3.2	Tests	et tet tiet with with	WILL AL
TIEK MULL	- Overcharging of a rechargeable battery	By inspection of the data for cells and tests of B3. & B4. See appended tables B.3 & B.4.	ALTEK P WALT
ek waitek	- Unintentional charging of a non-rechargeable battery	itek itek outek intek in	N/A
MULLER	- Reverse charging of a rechargeable battery	The pins of battery were soldered to PCB, which not likely to charge the battery reversely	WALTER V



Reference No.: WTF20X08055953S Page 29 of 62

			10. 20.
* (6)	TEX LIER OLIER MILE	EN 62368-1	at let let
Clause	Requirement – Test	Result – Remark	Verdict

	- Excessive discharging rate for any battery	LEX LEX LIEX NITER WITE	P
M.3,3	Compliance	No chemical leaked, no explosion occurred, no flame or expulsion of parts observed after tests and the battery temperature and battery charge/discharge current didn't exceed the specifications from manufacturer during the tests.	nnite vinit
M.4	Additional safeguards for equipment containing secondary lithium battery	STEE WHITE WHITE WALL WAL	IJP
M.4.1	General	EX TEX STEE WITER WITE	MILL P
M.4.2	Charging safeguards	Mr. In In	Р
M.4.2.1	Charging operating limits	TEX SITES INTER WALTER	n Pin
M.4.2.2a)	Charging voltage, current and temperature	The said of the said	et - 19
M.4.2.2 b)	Single faults in charging circuitry	White Mails Mail An	- W
M.4.3	Fire Enclosure	t at at a	P
M.4.4	Endurance of equipment containing a secondary lithium battery	Will Mary Mary Mary	W P
M.4.4.2	Preparation	IER WILL WHILL WHILL	Mr. B M
M.4.4.3	Drop and charge/discharge function tests		P
MUL	Drop	CLIER WILLE WALL WALL OF	P
t TEX	Charge		P.
Mur.	Discharge	NITER WITE WALL WALL WALL WALL	Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test	if the man war	Р
M.5	Risk of burn due to short circuit during carrying	TEX MILIER	MITEP
M.5.1	Requirement	The state of	P
M.5.2	Compliance and Test Method (Test of P.2.3)	White white mail man white	Р
M.6	Prevention of short circuits and protection from other effects of electric current	TEX SIEK SITEK WITEK WITE	Y PIEK
M.6.1	Short circuits	An An	P
M.6.1.1	General requirements	et white white white	N/A
M.6.1.2	Test method to simulate an internal fault	w the state of	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	White White while while w	N/A
M.6.2	Leakage current (mA)	TEX TIEN STIER WITE MY	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	A ST ST ST ST	N/A



Reference No.: WTF20X08055953S Page 30 of 62

	EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
	THE TEN TEN TEN NITE WATER	Mr. Mr.	+ + 4		
M.7.1	Ventilation preventing explosive gas concentration	TEX MULTER MULTER MULT	N/A		
M.7.2	Compliance and test method	L IN THE TEXT	N/A		
M.8	Protection against internal ignition from external spark sources of lead acid batteries	whit with whit	N/A		
M.8.1	General requirements	MITE WALTE WALL W	N/A		
M.8.2	Test method	L A A	N/A		
M.8.2.1	General requirements	CITE WILL MILL WILL	N/A		
M.8.2.2	Estimation of hypothetical volume Vz (m³/s)	at at all the	- LIEV ALTER		
M.8.2.3	Correction factors	in mi me me	1/11		
M.8.2.4	Calculation of distance d (mm)	TEX TEX STEET	CLIER OLIE		
M.9	Preventing electrolyte spillage	The falls and	N/A		
M.9.1	Protection from electrolyte spillage	LIEK ALIEK II	N/A		
M.9.2	Tray for preventing electrolyte spillage	Mr. Mr. Mr.	N/A		
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	in the thing	unii un P		

N. TEX	ELECTROCHEMICAL POTENTIALS	√N/A
711	Metal(s) used	

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
INLIE W	Figures O.1 to O.20 of this Annex applied	an iit an

Pirmi	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		mir P mir
P.1	General requirements	L St. St. Tet Tet .	JE PULL
P.2.2	Safeguards against entry of foreign object	No opening.	Р
MITE	Location and Dimensions (mm)	LEK TEK TEK STIER WIT	NI CITY
P.2.3	Safeguard against the consequences of entry of foreign object	and an an an and	N/A
P.2.3.1	Safeguards against the entry of a foreign object	is must me and	N/A
in white	Openings in transportable equipment	E NITE INITE WALL WALL V	N/A
ex writex	Transportable equipment with metalized plastic parts	TEX SLIEK SLIEK SMITER SAN	N/A



Reference No.: WTF20X08055953S Page 31 of 62

	EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)	TEX WHITEX WHITEX WHITE	N/A	
P.3	Safeguards against spillage of internal liquids	Mr. Mr. M.	N/A	
P.3.1	General requirements	TER LIER OLIER	N/A	
P.3.2	Determination of spillage consequences	41. 41. 11.	N/A	
P.3.3	Spillage safeguards	LIER WIFE WIFE NA	N/A	
P.3.4	Safeguards effectiveness	1 21 2	N/A	
P.4	Metallized coatings and adhesive securing parts	THE WALTER WALTER WALLE	N/A	
P.4.2 a)	Conditioning testing	TEX LIER CLIER	N/A	
at at	Tc (°C)		*	
WILL	Tr (°C)	alier wife w	The Mary Char	
. LEX	Ta (°C)		* 1 TH	
P.4.2 b)	Abrasion testing	MALTER WALTER WALT	N/A	
P.4.2 c)	Mechanical strength testing		N/A	

Q* K	CIRCUITS INTENDED FOR INTERCONNECT	TION WITH BUILDING WIRING	JE P JE
Q.1	Limited power sources	WILL MULL MULL MULL	Р
Q.1.1 a)	Inherently limited output	at at the text	JEN PIET
Q.1.1 b)	Impedance limited output	out mit mit me m	Р
White W	- Regulating network limited output under normal operating and simulated single fault condition	(See appended table Q.1)	miP w
Q.1.1 c)	Overcurrent protective device limited output	F TE WILL	July Pany
Q.1.1 d)	IC current limiter complying with G.9	An an art	N/A
Q.1.2	Compliance and test method	SITER OUTER MALIE WALLE W	N/A
Q.2	Test for external circuits – paired conductor cable	TEX SEEK SLIEK NITER SIN	N/A
i,t	Maximum output current (A)	in Mr. In A.	L #
White Wh	Current limiting method	EX TEX STEX WITE WITE	write wi

R W	LIMITED SHORT CIRCUIT TEST	
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)).	MN/A



Reference No.: WTF20X08055953S Page 32 of 62

1/2			<i>y y y</i>
* (1)		EN 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
"In	Samples, material	ir mer me me
- JE	Wall thickness (mm)	et set set s e
m	Conditioning (°C)	Mrs. Mrs. Mrs.
MITER.	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
TEX	- Material not consumed completely	N/A
1/1	- Material extinguishes within 30s	N/A
×	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
wir	Samples, material	Muri Mur Mur
TEX	Wall thickness (mm)	TEX TEX TEXT
1	Conditioning (°C)	Mus Me Me -
IEK WA	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
k NALTE	Test specimen does not show any additional hole	N/A
S.3	Flammability test for the bottom of a fire enclosure	N/A-
24.	Samples, material	24, 20,
LIE. N	Wall thickness (mm)	TER MITE MITE
	Cheesecloth did not ignite	N/A
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	white will what
TEX	Samples, material	THE THE THE
10, 1	Wall thickness (mm)	Mer. Mr. Mis.
TEX O	Conditioning (test condition), (°C)	TEK LITER ALTER
, TE	Test flame according to IEC 60695-11-20 with conditions as set out	N/A
'Elk	After every test specimen was not consumed completely	N/A
WILL	After fifth flame application, flame extinguished within 1 min	West mer N/A



Reference No.: WTF20X08055953S Page 33 of 62

1.10.0.0.		L	"m" "n"
+ 11	TEX LIER NITER WITE	EN 62368-1	A A A
Clause	Requirement – Test	Result – Remark	Verdict

Ť	MECHANICAL STRENGTH TESTS	i. Me. Mr. W.	Р
T.1 N	General requirements	* TEK STEK WITER ON	IN P W
T.2	Steady force test, 10 N	Mr. M. M.	N/A
T.3	Steady force test, 30 N	LIER ALTER MILE MALTE	N/A
T.4	Steady force test, 100 N	. (See appended table T.4)	+ P
T.5	Steady force test, 250 N	LIEN RITER WITE WHILE	N/A
T.6	Enclosure impact test	the state of the s	N/A
We 1	Fall test	iet with white white wh	N/A
TEX	Swing test	at at at a	N/A
T.7	Drop test	. (See appended table T.7)	Р
T.8	Stress relief test	. (See appended table T.8)	WILL BUT
T.9	Impact Test (glass)	No parts made of glass	N/A
T.9.1	General requirements	LIER OLIER WILES	N/A
T.9.2	Impact test and compliance	and the same	N/A
W. a	Impact energy (J)		nur-n
KEK S	Height (m)	a at at at	t set-s
T.10	Glass fragmentation test	White Maria Maria Maria	N/A
T.11	Test for telescoping or rod antennas	at let telt telt	N/A
7/1	Torque value (Nm)	Vr. Mur. My M.	20.

U L	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		
U.1	General requirements	No CRTs	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs	WILLER MILIER MATTER MATTER ON	N/A
U.3	Protective Screen	the state of the	N/A

VITER	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)			
V.1-	Accessible parts of equipment	The second second	N/A	
V.2	Accessible part criterion	mile while while while y	N/A	



Reference No.: WTF20X08055953S

* #	TEX TEX STEE	IEC62368_1B - AT	ΓACHMENT	.+	et let
Clause	Requirement – Test	A ALL	Result – Remark	TIL MU	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Originator: Nemko AS

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

Copyright © 2017 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.

	CENELEC (COMMON MC	DIFICATION	ONS (EN)				
ENNLIE		oclauses, note 62368-1:2014		gures and anne ed "Z".	xes which ar	e additional to	MUTE	P
CONTENT S	Annex ZA (n correspondir Annex ZB (n Annex ZC (in Annex ZD (in	ng European p normative) Spe nformative) A- nformative) IE	mative refe publications ecial nations deviations C and CEN	al conditions	signations for	4 6	illi x	INPER
		e "country" r o the followin		e reference do	cument (IEC	62368-1:2014)	Will.	Pu
	0.2.1	Note	1	Note 3	4.1.15	Note	INC. EX	
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	, EX	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	<u>,</u>	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	AND THEF	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4		
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	II'st.	
TEX	For special	national cond	ditions, se	e Annex ZB.	, t	et et s	E.L	C.E.K
TEK WALTE		use of certain sub oment is restricted			Write Mur	WILL WATER	س ماران	N/A



Reference No.: WTF20X08055953S Page 35 of 62

Clause	Requirement – Test	Result – Remark	Verdict
Olause	Treduitement – rest	Tresuit - Tremain	Verdict
4.Z1	Add the following new subclause after 4.9:	et tet tet stet stet mit	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; 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;	t whitet	ANLIER WAS
	c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	MILE WHITEK WHITEK WHITEK	WALTER.
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Whitek whitek whitek whitek wh	LIEK W
5.4.2.3.2.4		No connection to external circuit.	N/A
on w	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	TEX STEET	WILER
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	No radiation.	N/A



Reference No.: WTF20X08055953S Page 36 of 62

t set	IEC62368_1B - AT	TACHMENT	CH CH C
Clause	Requirement – Test	Result – Remark	Verdict
	THE THE STEE STEE STATE WAY	M. W.	+ +++++++++++++++++++++++++++++++++++++
0.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	TEX MUTER MUTER MUTE	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.	White	whi white white white the control of
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	EX NITEX WATER WATER	White white
	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.	JUN TEX WAITER	uniter uniter un
	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.	whitek whitek whit	ite miles
ek w	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.	TEK WALTER WALTER	WALTER WHITER A
0.6.1	Add the following paragraph to the end of the subclause:	White white white o	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	NITER WHITER WHITER WAS	IEK WALEK WALIE
0.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	TE WALTE	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	Whitek Whitek Whitek	White Write War
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566	LIET WHITEK WHITEK WHITEK	white whitet
G.7.1	Add the following note:	aliet aliet anie	N/A
LIEK	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	Mr. Mr. St.	TEX VIEW NIT



Reference No.: WTF20X08055953S Page 37 of 62

11 72			n_1 , n_2
* 16		IEC62368_1B - ATTACHMENT	
Clause	Requirement – Test	Result – Remark	Verdict

Bibliograp	Add the following standards:	N/A
hy	Add the following notes for the standards indicated:	
all a	IEC 60130-9 NOTE Harmonized as EN 60130-9.	
ing with	IEC 60269-2 NOTE Harmonized as HD 60269-2.	mr mr
1 .01	IEC 60309-1 NOTE Harmonized as EN 60309-1.	et et
TE WILL	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.	ALTE MALIE
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	
THE THE	IEC 60664-5 NOTE Harmonized as EN 60664-5.	EK CLIE
711	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	20, 1
TEX	IEC 61508-1 NOTE Harmonized as EN 61508-1.	TEX
mr. m	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	Mr. M.
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	et de
Life Wall	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.	arii wali
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	L at
ER WITE	IEC 61643-21 NOTE Harmonized as EN 61643-21.	TER WITE
20,	IEC 61643-311 NOTE Harmonized as EN 61643-311.	
TEX	IEC 61643-321 NOTE Harmonized as EN 61643-321.	A LIER .
Mr. N	IEC 61643-331 NOTE Harmonized as EN 61643-331.	11/2 1
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	19th 1
4.1.15	Denmark, Finland, Norway and Sweden	N/A
LIEK ANLIE	To the end of the subclause the following is added:	RLIEK WALTE
MUNITER ON	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.	EX WALLEY WA
it in	The marking text in the applicable countries shall be as follows:	ar ar
t white	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	ix rex
WALLE	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	wer a
MULTER	In Norway : "Apparatet må tilkoples jordet stikkontakt"	WALTER WA
LIEX WIFE	In Sweden : "Apparaten skall anslutas till jordat uttag"	NITEX WALTE



Page 38 of 62

11010101100	110 11 11 20/1000000000	1 ago 60 61 62	ar in
* (#	TEX LIER STEEL	IEC62368_1B - ATTACHMENT	at at at
Clause	Requirement – Test	Result – Remark	Verdict

4.7.3	United Kingdom	Not a direct plug-in equipment.	N/A
	To the end of the subclause the following is added:	it mit mus my m	TEX
	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	MILIER WHITE WHITE WHITEK	and white
5.2.2.2	Denmark After the 2 nd 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.	No high touch current measured.	N/A





Reference No.: WTF20X08055953S Page 39 of 62

	IEC62368_1B - AT		1, 1,
Clause	Requirement – Test	Result – Remark	Verdict
10	The state of the s		* XY
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added:	TEX MUTER MUTE MUT.	N/A
	For separation of the telecommunication network from earth the following is applicable:	Whitek whitek white	Murit Muri
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Whitek Whitek Whitek W	NITER WEITER WA
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	LIFEK WAITER WATER WA	te and and
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	THE WALTER WALTER WALTER	whi whi
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Whitek whitek whi	and white and
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 Kv multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 Kv), and	Mitel Whitek whitek	Writek Mariek M
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5Kv.	NLIEK WHITEK WHITEK WH	TEX MUTER MUT
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	TE WILL	X WALTER WALTER
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	The The True Line	White white a
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 Kv defined in 5.4.11;	JUNITER WHITER WHITER WAS	itt mrtigt mrtig
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	EX MULTER MULTER	WATER WATER
	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.	Whitek whitek whitek	unlies a liter of



Reference No.: WTF20X08055953S Page 40 of 62

* (0)	IEC62368_1B - AT		
Clause	Requirement – Test	Result – Remark	Verdict
	THE THE THE STEE WITH WAY	4, 2,	+ 4
5.5.2.1	Norway	rek itek litek kiter	N/A
	After the 3 rd paragraph the following is added:	in the m	
	Due to the IT power system used, capacitors	t at let let	LIEK SLIER
	are required to be rated for the applicable line-	" WILL MILL MULL M	
£ .	to-line voltage (230 V).	30	<u> </u>
5.5.6	Finland, Norway and Sweden	No such resistor used.	N/A
	To the end of the subclause the following is added:	The the tex	- J
	Resistors used as basic safeguard or bridging	elier while while whi	me m
	basic insulation in class I pluggable equipmenttype A shall comply with G.10.1 and	***	ALL ALL
	the test of G.10.2.	ex liex wife write	MULL WILL
5.6.1	Denmark		N/A
	Add to the end of the subclause	NITE OF STATE OF STAT	11/2 1
	Due to many existing installations where the	21, 21,	* et
	socket-outlets can be protected with fuses with	LIER STEEL OUT	NA THE NA
	higher rating than the rating of the socket- outlets the protection for pluggable equipment	me me m	
	type A shall be an integral part of the	EK TEK TEK	ALTY MIT
	equipment.	in with white with	111.
	Justification:		TEX TEX
	In Denmark an existing 13 A socket outlet can	is the wife while w	ur. Aur
A	be protected by a 20 A fuse.		A 10
5.6.4.2.1	Ireland and United Kingdom	TEX LIEK OLIEK ON	N/A
	After the indent for pluggable equipment type A , the following is added:	Mer my my my	t ext
	- the protective current rating is taken to be	THE STEEL WITE WITE	Mr. Mur
	13 A, this being the largest rating of fuse used	Vi My My My	
TE -	in the mains plug.	THE STATE OF THE S	WIE WITE
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to		in anti-
	be accepted by terminals for equipment with a rated current over 10 A and up to and including	201 201 201	1 1
	13 A is:	LET TEX TEX IT	The street
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	White Mrs. All All All	20
5.7.5	Denmark	A LET TEX JES	N/A
5.7.5	To the end of the subclause the following is	LIFE WALL WALL WALL	7/1/
	added:	at at all all	SLIEK SLIEK
	The installation instruction shall be affixed to	e outil with mile a	n. m.
	the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10		LEX LEX
	mA d.c.	THE LIE SLIP IN	, are



Reference No.: WTF20X08055953S Page 41 of 62

	IEC62368_1B -		1 1 1
Clause	Requirement – Test	Result – Remark	Verdict
5.7.6.1	Norway and Sweden	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.7.0.1	To the end of the subclause the following is added:	on the multiply multiply with	THE THE
	The screen of the television distribution syste 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.	al united united whitek	whitek whitek whitek
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended be used in:	e white white white and the same of the sa	yuntiek untiek vinte vuntiek untiek vin
	"Apparatus connected to the protective earthi of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fi hazard. Connection to a television distribution system therefore has to be provided through device providing electrical isolation below a certain frequency range (galvanic isolator, se	re I lifet whitek white and a whitek	iek whitek whitek whi
	EN 60728-11)" NOTE In Norway, due to regulation for CATV-installation and in Sweden, a galvanic isolator shall provide electrica 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	s, hite while while wh	et white whites
	min. Translation to Norwegian (the Swedish text was also be accepted in Norway):	ill	WALTER WALTER ON
	"Apparater som er koplet til beskyttelsesjord v nettplugg og/eller via annet jordtilkoplet utstyr og er tilkoplet et koaksialbasert kabel-TV nett kan forårsake brannfare. For å unngå dette s det ved tilkopling av apparater til kabel-TV ne installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	· _ ; kal	Mitek whitek whitek
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustnin och samtidigt är kopplad till kabel-TV nät kan vissa fall medföra risk för brand. För att undvidetta skall vid anslutning av apparaten till kab TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	i / ka	White whitek white



Reference No.: WTF20X08055953S Page 42 of 62

Ole	IEC62368_1B - AT	D. Att. D. C. I	V
Clause	Requirement – Test	Result – Remark	Verdict
5.7.6.2	Denmark To the end of the subclause the following is added:	TEX MULTER MULTER MULTE	N/A
	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.	Whitek whitek whitek	onlife white .
B.3.1 and	Ireland and United Kingdom	MULT WILL WILL MI	N/A
B.4	The following is applicable:		et Jet Ji
Whitek Whitek	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	EX WHITE WHITE WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX	White whitek was the way
G.4.2	Denmark	LIER WILL WILL	N/A
	To the end of the subclause the following is added:	a let let let	TEX STEX
	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.	CIET WHILE WHILE	Wee Mitter
	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.	NUTER WHITER WHITER WHITE	EX WHITE WHITE
	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.	THE THE THE THE THE	UNLIER UNLIER
	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.	united white white white	it mrii m
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	Et Writek Muriek Muriek	MITEX MILIER
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	Whitek whitek whitek w	RITER VITER ON
	Justification: Heavy Current Regulations, Section 6c	write mury mury mur	20, 20,



Reference No.: WTF20X08055953S Page 43 of 62

IEC62368_1B - ATTACHMENT			
Clause	Requirement – Test	Result – Remark	Verdict
G.4.2	United Kingdom	cet itet itet mit	N/A
	To the end of the subclause the following is added:	who was an	TEX TEX
int whist	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Whitek whitek whitek whi	while whitek whi
G.7.1	United Kingdom	EX LIEX WIFE WIFE	N/A
	To the first paragraph the following is added:	111, 111, 12	at let
	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	MALTER WALTER WALTER	white white white
Write M	essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	it writer antier	MULTE MULL
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	MILIER WALTER WALTER WAS	N/A
G.7.2	Ireland and United Kingdom	The Mr Mr	N/A
	To the first paragraph the following is added:	at at at	TEX TEX IN
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	MULTE MULTE MULTE M	Et airst mir

ZC

ANNEX ZC, NATIONAL DEVIATIONS (EN)



Reference No.: WTF20X08055953S Page 44 of 62

Treference	5 NO W 11 20X000333333	1 age 44 01 02	
.t .ti	- THE THE STIEF MILE	C62368_1B - ATTACHMENT	et et
Clause	Requirement – Test	Result – Remark	Verdict
1 J	est let let lier	neit we my my	it it
10.5.2	Germany	Not such equipment.	N/A

10.5.2	Germany	Not such equipment.	N/A
	The following requirement applies:	in mur mur my m	
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	Whitek whitek whitek whitek	INLIER WHITE
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	EL WHILE MATER MATER MATER MATER	y whitek w
	NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	Jun tex Multex Multex Multex	UNLIEK WALT









TABLE: List of critical components			P	
Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1
CHI MEI CORPORATION	PA-757(+)	HB, 85°C, min. 1.5mm thickness	UL94	UL E121562
SHENZHEN YING- SEOK CIRCUIT CO LTD	YS-02	130°C, V-0	UL796, UL94	UL E477626
Shenzhen Jin yu zhou Energy Co., Ltd.	602030	3.7V, 300mAh, 1.11Wh	IEC 62133- 2:2017	Report No.: LCS200824 23AS
	Manufacturer/ trademark CHI MEI CORPORATION SHENZHEN YING- SEOK CIRCUIT CO LTD Shenzhen Jin yu zhou Energy Co.,	Manufacturer/ trademark CHI MEI CORPORATION SHENZHEN YING- SEOK CIRCUIT CO LTD Shenzhen Jin yu zhou Energy Co.,	Manufacturer/ trademark CHI MEI CORPORATION SHENZHEN YING- SEOK CIRCUIT CO LTD Shenzhen Jin yu zhou Energy Co., Type / model Technical data 1.5mm thickness 3.7V, 00 3.7V, 300mAh, 1.11Wh	Manufacturer/ trademark CHI MEI PA-757(+) HB, 85°C, min. 1.5mm thickness SHENZHEN YING-SEOK CIRCUIT COLTD Shenzhen Jin yu zhou Energy Co., Manufacturer/ trademark Type / model Technical data Standard Technical data Standard HB, 85°C, min. 1.5mm thickness 1.30°C, V-0 UL796, UL94 Standard Technical data Standard Standard 1.11Wh ILEC 62133-2:2017

4.8.4, 4.8.5	TABLE: Life	thium coin/button cell ba	atteries mechanical tests	N/A	
(The follo	wing mechanic	cal tests are conducted in the	ne sequence noted.)	in m	
4.8.4.2	TABLE: Str	ess Relief test		y d i di	
√u Pa	art	Material	Oven Temperature (°C)	Comments	
JEX.	- LIER OUTE	aller Walt was	The state of the s	JEX - JEX	
4.8.4.3	TABLE: Ba	ttery replacement test	LIFE & WILL WALL WALL	Mr. Thu	
Battery p	art no		A St St St	TER TER	
Battery Ir	nstallation/with	drawal	Battery Installation/Removal Cycle	Comments	
IER WILL	MALTE	in a man a.	1 1 AP 5 BP 3	TEK WITER WA	
			2 10 10	- L	
			THE 3H LIFE METER	WITE WALTE	
			Wer my my and an	A st	
			5 17 (117	WITE WALT	
	, Elt		6	at at	
			8	LIL WALL W	
			- 10 9	of the s	
			10	mr. mr	
1.8.4.4	TABLE: Dro	p test	THE THE THE	JEX-JEX	
Impac	t Area	Drop Distance	Drop No.	Observations	
INLIER N	LIFE	Mr. Mur. M.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALTER MALTER	
	et et	ITEK SLIFEK SYNLIFER W	2 10 10 10 10 10 10 10 10 10 10 10 10 10		
TI WAL	Mrs. W		tet tret street 3 tret until van	MULT MY	
4.8.4.5	TABLE: Imp	pact	The state of	t jet ji	
	cts per face	Surface tested	Impact energy (Nm)	Comments	
WILL	in m	- x	it tet ite with nite mit	Will Suri	



4.8.4.6	TABLE: C	Crush test		re until until
Test p	osition	Surface tested	Crushing Force (N)	Duration force applied (s)
70,	-	t test test itest in	Marie Mari - Mari Mari	n
Suppleme	entary inform	nation:		

Page 46 of 62

4.8.5	TABLE: Li	thium coin/button cell batte	ries mechanical test result	N/A
Test p	oosition	Surface tested	Force (N)	Duration force applied (s)
74,		- LEX TEX STEX OF	KIE WALL MIT MIT MIT MIT	Zu
Supplem	entary informa	ition:	at the first of	EX ALTER WITE N

5.2	TAB	LE: Classificatio	n of electrical ene	rgy sources	ill .	CEN TEN	LIFP N
5.2.2	2.2 – Steady	State Voltage and	Current conditions	ALTER MAN	White Mr.	'n,	
	NITE WALT	MULL MULL		Parameters			TER WALTE
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class
	Fully	With Mail I	Normal	4.25Vrms	- Et	TEX - TEX	ALTER OF
1	charged battery	Battery pack Output	Abnormal	MILITE - NIT	Mr. M	, The	ES1
	4.25V	Output	Single fault –	/	16th 5	H TEK	LIEK WILL
5.2.2	2.3 - Capacita	ance Limits	AF WITE	WALT	me me	70, 2	.L ./\
	Supply	Location (e.g.	w	EX EX F	arameters	CLIEB ANI	ES Class
No.	Voltage	circuit designation)	Test conditions	Capacitance, ı	nF L	Upk (V)	
147	200	2, 22,	3	The state of the s		111 1	
5.2.2	2.4 - Single P	ulses	it in m		_ \	et set	TEX
	Supply	Location (e.g.	- 15	CLIEF TO P	arameters	in with	10 OI
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class
	4 1	et let	Normal	VIII MALL A	vr -n	14, 7	
1	TEN WALTER	They are	Abnormal	at -at .	CEX -JEX	NIFE MI	NALTE:
	H STEK	OLIEK WALTEK	Single fault – SC/OC	w w	711.	TEX TEX	J.TEX.
5.2.2	2.5 - Repetitiv	ve Pulses	ex liet ale	MITE WALTE	Mr. M	In Miles	14, 1
TEX	Supply	Location (e.g.	111 111	F	arameters	Et JEX	LIER OUT
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
, (1	ALTE WALL	mr. m.	Normal	At -At	JEK - LIER	INLIE ON	in Mur.
_	at let	TEX TEX	Abnormal	r mr n	\bar{i}_n	/	t et
	Murr	ave my	Single fault – SC/OC	it with	EK VIVILLER	nite -whit	Mur.

Reference No.: WTF20X08055953S Page 47 of 62

U			SY.
	A	V	A
U		V	
M	P.		

Test Conditions:

Normal -

Abnormal -

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

5.4.1.4, 6.3.2, 9.0, B.2.6	3.2, 9.0,						
k mitek	Supply voltage (V):				ll battery e mode	ex altex	
77	Ambient T _{min} (°C):	24.5	40.0	m.	25.7		
UNLIE WY	Ambient T _{max} (°C):	24.9	40.0	ALTEK IN	26.2	W - 11 NW	
Maximum r part/at:	measured temperature T of	Mur. Mu	T (°0	C)	y STEX	Allowed T _{max} (°C)	
PCB near i	input USB	31.9	47.0	29.6	44.7	130	
PCB near l	U2-Lit with which	29.7	44.8	30.1	45.2	130	
PCB near l	U3 the state of the state of	36.9	52.0	38.8	53.9	130	
Battery boo	y which the property of the pr	27.7	42.8	26.2	41.3	45	
Enclosure i	inside top U1	30.9	46.0	32.1	47.2	Ref.	
Enclosure	outside top U1	28.7	43.8	31.0	46.1	48	
Enclosure i	inside top battery	26.8	41.9	26.2	41.3	Ref	
Enclosure	outside top battery	26.6	41.7	26.3	41.4	48	
Knob	THE STIFE WITE	26.5	41.6	27.4	42.5	60	
Ambient	We are a second	24.9	40.0	24.9	40.0	M	
Supplemen	ntary information:	All .	20, 2,		LET LET	- CIEN	
Temperatu	re T of winding: t ₁ (°C) R	$t_1(\Omega)$ $t_2(^\circ$	C) $R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class	
Tr. Mur.	3 3 4	, , }			NI-L'I	Vr 1/2	

Supplementary information:

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

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

Note 3: The maximum ambient temperature specified by manufacturer is 40°C.

5.4.1.10.2	TABLE: Vicat softening tempe	rature of thermoplastics	N/A N
Penetration	n (mm)	Music Music Music Miles	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Object/ Par	t No./Material	Manufacturer/trad emark	T softening (°C)
E WITE	While Mur. Mur. M.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- ITEH NITE MITE WALL
	ntary information: ended Table 4.1.2 for details.		

Page 48 of 62

Reference No.: WTF20X08055953S



5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					
Allowed impression diam	eter (mm) :	≤ 2 mm			
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)		
- 14 114 1114	TIER WILL MILLER MA	ir me m. m.	- A - A-		
Supplementary information	on:	t tet tet alle	WITE WILL MY WE		
*: See appended Table 4	.1.2 for details.				

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimur	TABLE: Minimum Clearances/Creepage distance						
	(cl) and creepage r) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required cr (mm)	cr (mm)
LIFE WALL	Mr. Mr.			et - et	TEXT .	TEK - NITE	- NETE	min - min

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

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

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage						
OLIER ON	Overvoltage Catego	ervoltage Category (OV):					
	Pollution Degree:	711 12	2				
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measure	d cl (mm)		
L. CIER	WILL WILL MALL	d	* - *	LEK TEK	TER AL		

Supplementary information:

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

See appended table 5.4.2.2, 5.4.2.4 and 5.4.3 for measurements.

5.4.2.4	4.2.4 TABLE: Clearances based on electric strength test					
Test voltage applied between:		Required cl Test voltage (Kv) (mm) peak/ r.m.s. / d.c.		Breakdown Yes / No		
LEX	TEX STEE WITE	WILL ARE MY	74 74	A 14 5		
Suppleme	ntary information:	A CENT OF	CIER SLIE WITE	Will MUT MA		
Not used t	he alternative method to	determine the cleara	nces.			

5.4.4.2, 5.4.4.5 c) 5.4.4.9	.5 c) which will be set the set of the set o							
Distance thr insulation di		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	wi	DTI (mm)	
SLIER OF	TERMIN	MULTI -NE VIII	7,7	* - it	TEX TEX	JE!	NITER NO	

Reference No.: WTF20X08055953S Page 49 of 62



Cunn	lementary	inform	antion
\sim	lementary	Intern	namoni

*: See appended Table 4.1.2 for details.

5.4.9	TABLE: Electric strength	tests		N/A
Test volta	ge applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functiona	E WILL MILL MILL M	The state of the s	TEXT TEXT OF	EK STER STE
- 70,	at the set of	EX LIEX WILL WHILE	Mr. Aller Au	10, - 0
Basic/sup	plementary:	Will have the	TEX TEX LIER	CLIER WITE
- 4	at let let let	TEX WITE WALL A	er me " m	20 - T
Reinforce	d: The sure sure	THE CH LEFT	LET LIET SLIET	NITE WILLE W
4	et et tet tet	CITY WALL THE WAY	'n - 'n '	4 TH
Routine T	ests:	At the se	LIER WILL WI	IL MULL MUL
,	- TEX ITEX LITER	7, 41,	441 7	
	entary information: native sources have been cons	sidered.	WALTER WALTER WALTE	Mur. Aur.

5.5.2.2	TABLE	E: Stored disc	harge on capa	citors		N/A
Supply Voltage (V), Hz		Test Location	Operating Condition (N, S)	dition position (after 2 seconds)		ES Classification
- 1/1	211.	20 - 0	Ţ	£	LIFE WALL WALL	Mr. Mr. M.
Suppleme	ntary info	ormation:	10	1,	1	et let let
X-capacito	ors install	ed for testing a	re:			
Bleedir	ng resisto	r rating:				
☐ ICX:						
Notes:						
A. Test Lo	cation:	A ' / /				
Phase to I	Neutral; F	Phase to Phase	; Phase to Eart	h; and/or Neu	tral to Earth	
B. Operat	ing condi	ition abbreviation	ons:			
N. Norma	al aparati				n fuse); S –Single fault	aan ditian

Test current (A)	Duration (min)	Voltage drop (V)	Resistanc (Ω)
LIER WALL ON	wir - wir	70	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(A)	(A) (min)	(A) (min) (V)

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part	N/A
Supply vo	litage	Wall 1

Page 50 of 62

Reference No.: WTF20X08055953S



Location whitek whitek whitek whitek	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
Measured to protective earthing terminal	is we take an a	N/A
Wife white with mir will and	2* (1)	N/A
It less test they street outlies online	M. 3	N/A
the white mer was any and	TEX ITEX 4ET NUTE MILE	N/A
t let tex stex actes outer anite	1 5 th	N/A
min my my my m	the title still wall	N/A
	8	N/A

Supplementary Information:

Notes

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

N: Normal condition, R: Reverse condition.

6.2.2	Table: Electrical power sources (PS) measurements for classification				Р
Source	Description	Measurement	Max Power after 3	Max Power after 5 s*)	PS Classification
Battery	LIE WILL V	Power (W) :	9.36	LEK TEK JE	CLIEB WIFE
pack	Normal operation	V _A (V) :	3.36	We win an	PS1
Output		I _A (A) :	2.74	THE STATES	
Dettem	Abnormal	Power (W) :	13.12	- 70	1 1
Battery pack	condition P- to B-	V _A (V) :	3.05	- J- JE	PS1
Output	Short circuit	I _A (A) :	4.30	241 141 1.	
MILL	ar an	Power (W) :	13.60	ALTER WALL	MULL MUL
Battery cell Output	Normal operation	V _A (V) :	2.92	70°	PS1
un un	operation	I _A (A) :	4.72	NITE WALTER WALTER	

Supplementary Information:

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

SC=Short Circuit, OC=Short Circuit

6.2.3.1	Table: Determin	ation of Potential	Ignition Sources ((Arcing PIS)	*	ET PIET
WAL C	ocation	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})		ing PIS? es / No

Page 51 of 62

Reference No.: WTF20X08055953S

All internal	111- 111	J- /	11 -11 S	Yes
circuit/components	e at at	LIFET MITE	arti with with	211. 21.

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: De	termination of Pot	tential Ignition S	Sources (Resis	stive PIS)	P
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
All internal circuit/components	ILIER MULTER MA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	No	Yes

Supplementary Information:

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

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

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

8.5.5	TABLE: High Pressure Lamp		N/A
Descriptio	on tex tree tree	Values	Energy Source Classification
Lamp type	::	TEX LIEX SLIE	A TELL WITE ME WILL WILL
Manufactu	urer	Le Mr M	at the set
Cat no	:	الم الله الله	The Marie Maria Maria
Pressure ((cold) (MPa):		MS_
Pressure (operating) (MPa):		- CLIEF ON ON	MS_
Operating	time (minutes):	70 70	et let let liet site
Explosion	method:	WITE WALTER WAL	in the man the
Max partic	cle length escaping enclosure (mm):		MS_
Max partic	cle length beyond 1 m (mm):	LIE NALTE WALL	MS_
Overall res	sult:	L A A	TEX ITEX ALTER MITER NO
Suppleme	entary information:	Will Will	11/2 211 211

B.2.5	TA	BLE: Inp	ut test					Р
U (V)	Mr	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc	CE	0.563	1.0	2.815		L - X	<i>*</i>	Only charge







B.2.5 TA	BLE: Inp	ut test	- 70	at	et de	y JEK	ALTER OF THE PLAN
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
DC5V	0.187	0.5	0.935	Inches White	White W	oner on Ster oner Ster oner	1. Battery empty charge; 2. Charg olnly 3. Battery current: 0.183A.
AUX mode	1 1	- et	TEX IN	it with a	inti wit	MU	1/1 10 12
Fully discharged batteries 4.25V	0.021	nrier mir	0.088	MULTER WA	EK FALTER	omitek v	Normal working
Bluetooth mod	de	TEX TEX	LIET .	INLY WILL	mr.	111. 111	
Fully discharged batteries <u>4.25V</u>	0.058	y while	0.244	et utet	gger <mark></mark> egg	iek mile	Normal working
TF card mode	t JEH	J. J.	IE. WILL	MUL	711	4,	at let let
Fully discharged batteries <u>4.25V</u>	0.057	ALT ALTE	0.239	kiter .	UNLTER LITEX	waite was	Normal working

Supplementary information:

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

B.3	TABLE: Ab	normal op	erating con	dition te	sts			P
Ambient temp	perature (°C)	: - 6	1 'AL	in ^{lit}	(0)	See below —		
Power source	e for EUT: Ma	anufacturer	, model/type	, output r	ating:	See cover page	for details	s min -m
Component No.	Abnormal Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current (A)	T-couple	Temp. (°C)	Observation
Over-chargii	ng with fully	charged b	attery	1	x	TEX TEX	LIEN	LIER MITE
Over-charge	U3	U3 5.0Vdc	7hr.	WIT N	Vr 1	Battery body	27.6	Input current
	Pin 4-5 SC		WITEK		TEX	Enclosure outside top battery	27.0	0.183A to 0.54A to 0.10A.
	inize mi		NITEX IN		k walie	Enclosure outside top U1	27.0	Battery current: 0.178A to
	LIE WILL		TEX NITE		MALTEX	Ambient	24.9	0.512 to 0A. No damage, No hazard.



Reference No.: WTF20X08055953S Page 53 of 62



Over-	U2	4.25	7hr.	THE THE	Battery body	29.0	Battery current:
discharge	Pin 8-15 SC	WALTER WALT	EX WALTER	MULL MULL	Enclosure outside top battery	28.1	0.177A to 0A.
NLTEX UNLTEX	WUTTER W	LIEK WALTE	WALTER.		Enclosure outside top U1	34.7	Unit shutdown, no hazard, no damage.
EX TEX	LIEX NI	EX WITER	unlife, whi	me m	Ambient	24.9	no damage.
Speaker (L+ to L-)	SC Sex whitek	4.25	10min.	untiek mitek	White whitek	ounce our	Battery current: 0.123A. Unit shutdown immediately, no damage, no hazard.
Speaker	SC W	4.25	4.5hr.	d d+ s	Battery body	29.6	Battery
(R+ to R-)	LIEK WALIE	walt wa	EX WILLEY	TEK MIL	Enclosure outside top battery	28.5	current: 0.128A. Unit
whitek whi	EK WALTER			wint ite	Enclosure outside top U1	36.2	shutdown, no damage, no hazard.
TEX LIE	MITER	ILY INLIE	1	Y	Ambient	24.9	LIEK

Supplementary information:

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

B.4	TABLE: Fau	It condition te	ests					MILITA	JUP JU
Ambient tem	perature (°C)	14	70		25 .0	, L	at	A
Power source	e for EUT: M	lanufacturer, m	nodel/type, c	output ra	ating .	See cover pag	ge for det	ails	mr. — mr.
Component No.	Fault Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse currer , (A)	nt	Temp.	Ob	servation
5Vdc charge	e mode	MUT. MUT.	72.	1	.*	Alt A	* LIE	المام	ER MITE
C44	SC SC	5.0Vdc	10min	Veix Veix	NLT TEX	A FR AND TEX	Mulitek	Batter 0A. Unit s	current: 0A. ry current:
et et	whi wh	t with w	IEX WAITE	MALTE	ا الله	ie whitek w	ALTER WA		diately, no ige, No d.

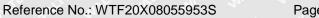


U3 Pin 4-5	SC WALLEY	5.0Vdc	10min	unitek itek w	unliek Viek Vinlie	MIEK WHI IEK WHIEK KWAITEK	MULTER IN	Input current: 0.54A. Battery current: 0.52A. Normal operation, no damage, No hazard.
U3 Pin 4-7	SC METER	5.0Vdc	10min	MUTEL MUTEL MEL	Whitek Shiffer Tek whi	MULLER WE	iek wai kalife waliek	Input current: 0.185A. Battery current: 0.184A. Normal operation, no damage, No hazard.
U3 Pin 5-7	MALTER OF	5.0Vdc	10min	de la	34 July 16	envirek Waliek Waliek	ster un er unter	Input current: 0.186A. Battery current: 0.115A. Normal operation, no damage, No hazard.
U2 pin 11- 15	united uniscoun	5.0Vdc	10min	- vini	EY J.T.	ex whitex	nitek Tek-na K	Input current: 0.185A. Battery current: 0.183A. Normal operation, no damage, No hazard.
Full battery	4.25V disc	harge mode	m.	Colonial Colonia Colonial Colonial Colonial Colo	7,, ,	- 3	, EX	TEX LIER
Battery + to -	SC NITER WATER	4.25Vdc (full battery)	10min	ir k wai	it w	n -	TIEK W	Battery current: 0A. Unit shutdown immediately, no damage, No hazard.
U2 pin 11- 15	SC THE	4.25Vdc (full battery)	10min	No No	MITET W	WALL WALE	White Water	Battery current: 0.058A. Normal operation, No hazard.
U3 pin 1-5	SC	4.25Vdc (full battery)	10min	No ^{un}	TEX JUNE	ek water watek	MALTER V	Battery current: 0.058A. Normal operation, No hazard.

Supplementary information:

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





21				7
	7	V	A	
			J	

Annex M	TABLE:	Batteries	m n	, ,	* it	- TEX	LIEK	LIER IN	P
The tests of	of Annex M	are applic	able only whe	n appropri	ate battery	/ data is no	ot available	Э	-d+
Is it possib	le to install	the batter	y in a reverse	polarity po	sition?		CE MI	MALTE	W. Jun
ot s	Non-re	echargeabl	e batteries	WILL	Mr. 1	Rechargea	ble batteri	es	et
Write Muri	Disch	Discharging		Cha	rging	Disch	arging	Reverse	d charging
TEX NATES	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	ALTEK WAL	rek white	whitek white	0mA	300mA	58mA	300mA	ex vinite	MULTER OF
Max. current during fault condition (U3 Pin 5- 7 short circuit)	unitek w	unitek wai	LIEK WALTER	0mA	JETE W	ownites of the state of the sta	MILEK W	ONLIER W	LITEK WILEK
Max. current during fault condition (U3 Pin 4- 7 short circuit)	EK UNITER	omit onitek of	NITE IS	0mA	LITER	TEK WALTER	LIEK IN	WALTER WA	MITER MITER
Max. current during fault condition (U3 Pin 4- 5 short circuit)	anutek v	H WALTER	EX MILIE	248mA	unit of the same o		 Er on if Tex	MULTER WA	JUNITEK JUNITEK JUNITEK JUNITEK
Max. current during fault condition (U2 pin 11-15 short circuit)	LIFE WAS	MATER M	White white white the control of the	E WALTER WALTER	- WALTER WALTER	58mA	TEK WATER	ALTEK W	Whitek white



Reference No.: WTF20X08055953S Page 56 of 62

Max 58i current during fault condition	mA	t - white
(U3 pin 1- 5 short circuit)	WALTER WALTER	DALTEK WAL
Test with full charged battery condition; Max. current during fault condition (U3 Pin 4-5 short circuit)	NITER WHITER WHITER W	LIE WALL
Test results:	et set set si	Verdict
- Chemical leaks	No No	Р
- Explosion of the battery	No	IN P IN
- Emission of flame or expulsion of molten metal	No	Р
- Electric strength tests of equipment after completion of tests	LIEN OLIEN WITE	N/A
Supplementary information:	di na	at at

	ble: /	Additional safegua s	ards for e	equipment c	ontaining seco	ndary	lithium	P	
Battery/Ce	ell	Test condition	ons	LIFE	Measurement	S		Observation	
No.		211		U	I (A) Te		emp (C)	WUT. M	
Battery: 60203	0	Normal	VII V	3.468	0.183		* .i	The charging	
Battery: 60203	0	Charging: Single U3 Pin 5-7 SC	fault –	3.493	0.115	whit	-Mur	voltage and current didn't exceed the	
Battery: 60203	0 0	Charging: Single U3 Pin 4-7 SC	fault –	3.511	0.183	LIER	WALTE.	maximum specified charging	
Battery: 60203		Charging: Single UU3 Pin 4-5 SC	fault –	3.976	76 0.512		INLIEK WI	voltage and current.	
Supplementary	/ Infor	mation: SC=short of	circuit	211	- AL 8		CEX S	EX LIEX O	
Battery identification	45/4	Charging at T _{lowest} (°C)	Obs	ervation	Charging at T _{highest} (°C)		NOI	bservation	
Battery: 60203	00	o O Lifek whitek whitek	Battery cur 0.1 Charge c exce spe valu manufa		tek whitek whitek		The battery stopped charging when the cell temperature reached 44°C and current is 0A.		
Battery: 60203	WHITEK WHITE WHITEK WHITEK WHI		ope abnorn oper chargin	battery erated nally, NTC n circuit; ng current= 0 A	MILLER 45 LANGER		The battery operated abnormally, NTC shor circuit; charging current= 0 A		



Reference No.: WTF20X08055953S Page 57 of 62

Battery: 602030	nifet unifet u	The battery operated abnormally, U3 pin 1open circuit; charging current= 0 A	A 45 - White	The battery operated abnormally, U3 pin 1 open circuit; charging current= A
Supplementary In	formation:			

Annex Q.1	TABLE: Circuits in	tended for inte	erconnection v	vith building v	viring (LPS)	N/A
Note: Mea	sured UOC (V) with a	I load circuits di	sconnected:	x ex	TEX LIER O	LIER
Output Components Circuit	U _{oc} (V)	I _{sc} ((A) 11 11 11 11 11 11 11 11 11 11 11 11 11	S (\	/A)	
	MUT. MUT.	Meas.	Limit	Meas.	Limit	
Battery pack	normal operation	4.21	2.80	W. 8 W.	9.36	100
Battery pack	abnormal operation P- to B-	4.21	4.55	8	13.12	100
Battery cell	normal operation	4.21	5.29	1/8 N	13.60	100

T.2, T.3, T.4, T.5	TABLE: Steady for	orce test			TEK WITER WITER P
Part/Locati on	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Enclosure top	Plastic	Min. 1.50	100	W 5 W	Enclosure remained intact, no crack/opening developed.
Enclosure side	Plastic	Min. 1.48	100	5	Enclosure remained intact, no crack/opening developed
Enclosure bottom	Plastic	Min. 1.68	100	of Sections	Enclosure remained intact, no crack/opening developed

T.6, T.9 TABLE: Impact tests				
Part/Locatio n	Material	Thickness (mm)	Vertical distance (mm)	Observation
	A - at	JEK NEED IN	in with min	Mr. Mr. Andrews

T.7	TABLE: Drop tests	un'P u	
-----	-------------------	--------	--



Part/Locatio n	Material	Thickness (mm)	Drop Height (mm)	Observation	
Enclosure top	Plastic	Min. 1.50	1000	Enclosure remained intact, no crack/opening developed.	
Enclosure side	Plastic	Min. 1.48	1000	Enclosure remained intact, no crack/opening developed	
Enclosure bottom	Plastic	Min. 1.68	1000	Enclosure remained intact, no crack/opening developed	

T.8	TABLE: Stress reli	ef test	MULT MULT	Mrs. Mrs.	P	
Part/Locatio	n Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation	
Enclosure	Plastic	Min. 1.48	70	m 7 m	Enclosure remained intact	
Supplementa	ary information:		LIEK	ALTER MITE	White white white	





Photo Documentation

Model: MO9168



Photo 1



Photo 2



Photo Documentation



Photo 3



Photo 4



Photo Documentation



Photo 5



Photo 6



Photo Documentation

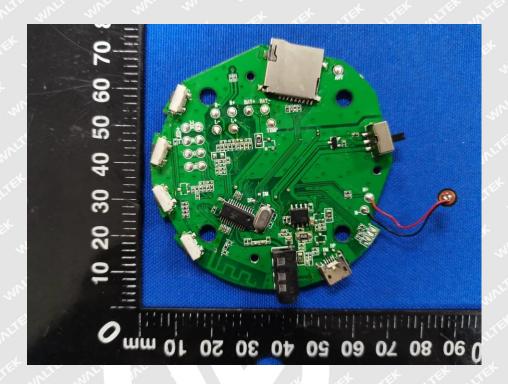


Photo 7

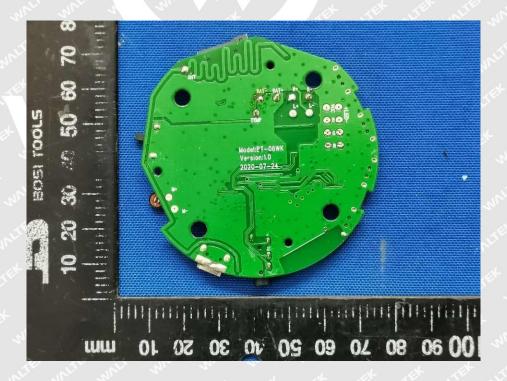


Photo 8

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