

TEST REPORT

Reference No:	WTX23X05117123S
Applicant::	Xontel Technology Company
Address::	Kuwait City Aladel Tower,F21 QIBLA
Manufacturer::	Xontel Technology Company
Address::	Kuwait City Aladel Tower,F21 QIBLA
Product::	WIFI Phone
Model(s)::	XT-16W
Standards::	EN IEC 62368-1:2020+A11:2020 Audio/video, information and communication technology equipment- Part 1:Safety requirements
Test Report Form No:	WTX_EN IEC 62368_1_2020B
Date of Receipt sample:	2023-05-30
Date of Test::	2023-05-30 to 2023-06-06
Date of Issue::	2023-06-15

Remarks:

Test Result.....::

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 approver.

Pass

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 Email: sem@waltek.com.cn

rested by:	Approved by:	
Vic Liong	-tentour "	Š
Vic Xiong	Harvid Wei	

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Test item description: WIFI Phone	
Trademark: Xontel	
Model and/or type reference: XT-16W	
Rating(s) Input: 5V==1.0/	A or Powered by 3.7V, 2000mAh Lithium ion Battery
Whether parts of tests for the product have been sub-	contracted to other labs:
☐ Yes ⊠ No	
If Yes, list the related test items and lab information: -	The Mr. Mr. M. M.
Test items:	
Lab information:	with with much much and any and
Summary of testing:	at the first that attend outless
Tests performed (name of test and test clause): - EN IEC 62368-1:2020+A11:2020	Testing location: Waltek Testing Group (Shenzhen) Co., Ltd. Address: 1/F., Room 101, Building 1, Hongwei
The submitted samples were found to comply with	Industrial Park, Liuxian 2nd Road, Block 70 Bao'an
the requirements of above specification.	District, Shenzhen, Guangdong, China

Copy of marking plate:

WIFI Phone

Model: XT-16W

Input: 5V==, 1.0A or Powered by 3.7V, 2000mAh Li-ion

Battery

CE Z

Xontel Technology Company Kuwait City Aladel Tower,F21 QIBLA

Importer name: XXX Importer address: XXX

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.

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V	V		4
	7	V	V

Test item particulars:	THE MILE WALL WALL WALL VILLE VILLE
Product group:	
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person
Supply connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ + %/ - % None
Supply connection – type:	□ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler
Considered current rating of protective device	 □ permanent connection □ mating connector ⋈ other: not directly connected to the mains. □ 16 A;
	Location: ☐ building ☐ equipment ☐ N/A
Equipment mobility::	 ☐ movable ☐ direct plug-in ☐ stationary ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other:
Overvoltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⋈ other:
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Special installation location:	N/A □ restricted access area□ outdoor location□
Pollution degree (PD)	□ PD 1 □ PD 3
Manufacturer's specified T _{ma} :	25°C Outdoor: minimum °C
IP protection class:	
Power systems:	☐ TN ☐ TT ☐ IT - V _{L-L} ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □ m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg):	0.41kg

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1		V	V	4	/

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POSSIBLE TEST CASE VERDICTS:	Wife Mile Will Mill Mill Mill Mill Mill Mill Mill
- 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:	Must me me me
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	he General product information section.
Name and address of factory (ies):	Same as manufacturer
GENERAL PRODUCT INFORMATION:	CLIFE WILL WALL WALL WALL WAS THE
Product Description 1. This product is a WIFI Phone is Class III equipment 2. As the applicant declares, the operation temperatur 3. Tests on model XT-16W and comply with the requir	re is 25.0°C.
Model Differences N/A	EX MITEX WHITEX
Additional application considerations – (Consideration)	ations used to test a component or sub-assembly)



Clause	Possible Hazard			
5 411	Electrically-caused injury	NUTTE WHITE W	ve, we n	. w
Class and Energy Source	Body Part	* *	Safeguards	TEX OUT
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	PLT IN B IN	u's u'	R
ES1: All circuits inside the equipment enclosure	Ordinary	N/A	N/A	N/A
ES1: Charging base output port	Ordinary	N/A	N/A	N/A
ES1: Battery pin + to -	Ordinary	N/A	N/A	N/A
6 Itel Nice Will White	Electrically-caused fire	A 15	Let Let .	LIER KI
Class and Energy Source	Material part	min min m	Safeguards	20
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS3: Power Adapter output	Printed board	V-0 Enclosure	PCB: V-0	N/A
PS1: Charging base output port	Printed board	N/A	N/A	N/A
PS1: Battery Pack Output	Printed board	N/A	N/A	N/A
PS2: Battery cell Output	Printed board	V-0 Enclosure	PCB: V-0	N/A
7 12 11 11	Injury caused by hazardo	us substances	ic write my	100
Class and Energy Source	Body Part	را جنارا	Safeguards	y Clerk
(e.g. Ozone)	(e.g., Skilled)	В	Sur S ur	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injur	ry	me me	211 - 2
Class and Energy Source	Body Part	A . A	Safeguards	JE 10
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
9 mil ori or	Thermal burn	ct let let	THE STEP	NUTER
Class and Energy Source	Body Part	They me.	Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	B A	S	R
TS1: Accessible parts	Ordinary	N/A	N/A	N/A
10 - 11 - 11 - 11	Radiation	THE THE	LIER INLIER IN	in with
Class and Energy Source	Body Part	40 Au Au	Safeguards	y
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	A B	NS N	R
LED indicate	Ordinary	N/A	N/A	N/A

ENERGY SOURCE DIAGRAM

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Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

☑ES ☑PS ☑MS ☑TS ☑RS

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Clause	Requirement – Test	Result – Remark	Verdict
t det	ALL OF MILE WILL OF THE STREET	c of the state of	
4	GENERAL REQUIREMENTS	WILL ME ME ME	Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	uni P
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction	lier while mult when	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Not outdoor equipment	N/A
4.1.5	Constructions and components not specifically covered	Tet itet sitet mit	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such component used	N/A
4.1.15	Markings and instructions	(See Annex F)	JI P
4.4.3	Safeguard robustness	See below	Р
4.4.3.1	General	TEX STEE STEE SMITE IN	P
4.4.3.2	Steady force tests	(See Clause T.3, T.4)	, P
4.4.3.3	Drop tests	(See Clause T.7)	Р
4.4.3.4	Impact tests	50 L A B	N/A
4.4.3.5	Internal accessible safeguard tests	CLIE WILL WALL WALL	N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests	Marin War.	N/A
EK JE	Glass impact test (1J)	# 18th	N/A
711	Push/pull test (10 N)	MULL MULL MULL MI	N/A
4.4.3.8	Thermoplastic material tests	(See annex T.8)	Р
4.4.3.9	Air comprising a safeguard	mer mer me m	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	the the the state	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	ne me m	N/A
4.4.5	Safety interlocks	LET THE LIFE STEEL	N/A
4.5	Explosion	11/2 11/1 11/1	N/A
4.5.1	General	No explosion	N/A
4.5.2	No explosion during normal/abnormal operating condition	at the text the	N/A
71, 1	No harm by explosion during single fault conditions	me me me	N/A
4.6	Fixing of conductors	TEX TEX STEX STEE	N/A
	Fix conductors not to defeat a safeguard	in the transfer of	N/A
ITE NALTE	Compliance is checked by test:	Et JER JER WITE I	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	Not such equipment	N/A
4.7.3	Torque (Nm):	211. 22. 22.	N/A

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LIET WITE	WILL MULL AND AND	IEC 62368-1	At At State State	MITE WALT
Clause	Requirement – Test	LIER WALTE WA	Result – Remark	Verdict

4.8	Equipment containing coin/button cell batteri	es and all all	N/A
4.8.1	General	No such battery used	N/A
4.8.2	Instructional safeguard	" net out out ou	N/A
4.8.3	Battery compartment door/cover construction	let 1st 1st 1st	N/A
	Open torque test	my my my m	N/A
4.8.4.2	Stress relief test	At 18th 1784 NITER	N/A
4.8.4.3	Battery replacement test	Ver My My	N/A
4.8.4.4	Drop test	TEN STEP STEP SUITER SI	N/A
4.8.4.5	Impact test	24, 24, 24	N/A
4.8.4.6	Crush test	LIEL STEE WIFE SINT	N/A
4.8.5	Compliance	The Colonian State of the	N/A
in me	30N force test with test probe	WER STEE SHIP MALL	N/A
y	20N force test with test hook	on the city	N/A
4.9	Likelihood of fire or shock due to entry of cor	nductive object	N/A
4.10	Component requirements	. 4 A	N/A
4.10.1	Disconnect Device	er with with with win	N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		P
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	Let let let site	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2.2.2)	Р
5.2.2.3	Capacitance limits	Let the life wife	N/A
5.2.2.4	Single pulse limits	We are any and	N/A
5.2.2.5	Limits for repetitive pulses	TEX STEX NUTER OF	N/A
5.2.2.6	Ringing signals	1/11 /11 /11	N/A
5.2.2.7	Audio signals	et liet aliet mile uni	N/A
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	WHITE WHITE WHITE WHITE	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	ES1	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	the state of the state of	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	THE THE THE	N/A
m.	Accessibility to outdoor equipment bare parts	No outdoor equipment.	N/A
5.3.2.2	Contact requirements	a state of site	N/A

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IET INIT	with mur me me m	IEC 62368-1	IEE MILE WILL
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement – rest	Result – Remark	verdict
	all the said said said	e at not offer of	
	Test with test probe from Annex V	No bare parts at ES2 or ES3 basic safeguard could be accessed by operator.	-
5.3.2.2 a)	Air gap – electric strength test potential (V):	(See appended table 5.4.9)	N/A
5.3.2.2 b)	Air gap – distance (mm):	>0.2	N/A
5.3.2.3	Compliance	4, 4, 4,	N/A
5.3.2.4	Terminals for connecting stripped wire	No such terminals	N/A
5.4	Insulation materials and requirements	70	P
5.4.1.2	Properties of insulating material	Hygroscopic materials are not used for insulating materia	W.A.
5.4.1.3	Material is non-hygroscopic	THE STEEL WITH WITH	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	TEK P
5.4.1.5	Pollution degrees	PD2.	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied	N/A
5.4.1.5.3	Thermal cycling test	at at all all	N/A
5.4.1.6	Insulation in transformers with varying dimensions	Must aut aug and and	N/A
5.4.1.7	Insulation in circuits generating starting pulses	the Cart State	N/A
5.4.1.8	Determination of working voltage:	a fac an .	N/A
5.4.1.9	Insulating surfaces	and the state of	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Mrs. All All St	N/A
5.4.1.10.2	Vicat test	min me me m	N/A
5.4.1.10.3	Ball pressure test	let let the state	N/A
5.4.2	Clearances	aluti, Mur, Ant, Ant,	N/A
5.4.2.1	General requirements	tet tet stet stet steet	N/A
et tex	Clearances in circuits connected to AC Mains, Alternative method	the state of	N/A
5.4.2.2	Procedure 1 for determining clearance	MULL ANT, AND AND	N/A
ALTER OF	Temporary overvoltage:	. Let tet tet att	_
5.4.2.3	Procedure 2 for determining clearance	mer mer me m	N/A
5.4.2.3.2.2	a.c. mains transient voltage:	TEK TEK TIEK OUTER	
5.4.2.3.2.3	d.c. mains transient voltage:	In the the	
5.4.2.3.2.4	External circuit transient voltage	12t alter reter with with a	_
5.4.2.3.2.5	Transient voltage determined by measurement:	- 111 211	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	White white white whi	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.5	Multiplication factors for clearances and test voltages:	WILLIAM THE MULTER	N/A
5.4.2.6	Clearance measurement:	alies while while	N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General	LIET INLIE WALLE WA	N/A
5.4.3.3	Material group	1 1 1 1	* _
5.4.3.4	Creepage distances measurement	White White White	N/A
5.4.4	Solid insulation	A ST ST	N/A
5.4.4.1	General requirements	White Man Must	N/A
5.4.4.2	Minimum distance through insulation:	at the the	N/A
5.4.4.3	Insulating compound forming solid insulation	were the men of	N/A
5.4.4.4	Solid insulation in semiconductor devices	At THE THE N	N/A
5.4.4.5	Insulating compound forming cemented joints	in my my	N/A
5.4.4.6	Thin sheet material	t iter liter rive	N/A
5.4.4.6.1	General requirements	me me	N/A
5.4.4.6.2	Separable thin sheet material	LIER NIER WITE	N/A
	Number of layers (pcs):	4 24 2	N/A
5.4.4.6.3	Non-separable thin sheet material	LEK SINLIE WI	N/A
. L.	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	white with whi	N/A
5.4.4.6.5	Mandrel test	t life alies inlies	N/A
5.4.4.7	Solid insulation in wound components	70, 70, 7	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	INLIER WHITE WALTE V	N/A
THE WALL	Alternative by electric strength test, tested voltage (V), K _R	JEK WILLER WILLER WIL	N/A
5.4.5	Antenna terminal insulation	e at at so	N/A
5.4.5.1	General	me me me	N/A
5.4.5.2	Voltage surge test	. LEK TEK STEK	N/A
5.4.5.3	Insulation resistance (M Ω)	The Mer Me	N/A
ALTER SINI	Electric strength test	TEX TEX STEE	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	the support	N/A
5.4.7	Tests for semiconductor components and for cemented joints	Must me me	N/A
5.4.8	Humidity conditioning	MULTE WALL WALL	N/A
LITER I	Relative humidity (%), temperature (°C), duration (h)	Let Let Liet	TIEK -

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Clause	Requirement – Test	Result – Remark	Verdict
5.4.9	Electric strength test	CLIER WILLER WATER	N/A
5.4.9.1	Test procedure for type test of solid insulation:	N 7	N/A
5.4.9.2	Test procedure for routine test	WILL MULL MILL	N/A
5.4.10	Safeguards against transient voltages from external circuits	LIEK INLIEK WILLER WA	N/A
5.4.10.1	Parts and circuits separated from external circuits	1 1 1 1	N/A
5.4.10.2	Test methods	White white white	N/A
5.4.10.2.1	General	at at at	N/A
5.4.10.2.2	Impulse test:	White Mit Must	N/A
5.4.10.2.3	Steady-state test:	at at at	N/A
5.4.10.3	Verification for insulation breakdown for impulse test:	With the second	N/A
5.4.11	Separation between external circuits and earth	The MULL MULL MY	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	Et NIFEK MITEK WALTE	N/A
5.4.11.2	Requirements	1 x x	N/A
and an	SPDs bridge separation between external circuit and earth	white white wait	N/A
	Rated operating voltage U _{op} (V)	ALL SINITE W	J _
et set	Nominal voltage U _{peak} (V)		<i>*</i> –
in	Max increase due to variation $\times U_{sp}$	the mile while while	70, -
t Tex	Max increase due to ageing $\times U_{sa}$	L A A	e —
5.4.11.3	Test method and compliance	until mit mit	N/A
5.4.12	Insulating liquid	A St St	N/A
5.4.12.1	General requirements	WILL ME AND A	N/A
5.4.12.2	Electric strength of an insulating liquid	at at the	N/A
5.4.12.3	Compatibility of an insulating liquid	y me my m	N/A
5.4.12.4	Container for insulating liquid:	et the the time	N/A
5.5	Components as safeguards	me me m	N/A
5.5.1	General	TEX LIFE SLIFE	N/A
5.5.2	Capacitors and RC units	me m	N/A
5.5.2.1	General requirement	THE THEY OUTER OF	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	et let let o	N/A
5.5.3	Transformers	me me m	N/A
5.5.4	Optocouplers	- Tek Jek Je	N/A
5.5.5	Relays	me me	N/A
5.5.6	Resistors	THE THE STREET	N/A

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Claves	IEC 62368-1	Booult Barranic	1/2==!:=1
Clause	Requirement – Test	Result – Remark	Verdict
5.5.7	SPDs	WILL WILL MULTE MILL	N/A
5.5.8	Insulation between the mains and an external	at at at at	N/A
<u> </u>	circuit consisting of a coaxial cable	meet out our me	23,
5.5.9	Safeguards for socket-outlets in outdoor equipment	At At Sit Sit	N/A
200	RCD rated residual operating current (mA)	is any my my	2 _
5.6	Protective conductor	a che che che	N/A
5.6.2	Requirement for protective conductors	me me m	N/A
5.6.2.1	General requirements	at the the	N/A
5.6.2.2	Colour of insulation	mr. m. m. m.	N/A
5.6.3	Requirement for protective earthing conductors	Let Let Liet Liet	N/A
	Protective earthing conductor size (mm²):	in my my my	_
	Protective earthing conductor serving as a reinforced safeguard	TEX MULTER WHITER MULTERY	N/A
Y WITER	Protective earthing conductor serving as a double safeguard	t still milet anifer an	N/A
5.6.4	Requirements for protective bonding conductors	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.6.4.1	Protective bonding conductors	White white white white	N/A
Let :	Protective bonding conductor size (mm²):	The state of the state of	_
5.6.4.2	Protective current rating (A):	The Court of the C	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	Murra Maria Maria	N/A
me.	Terminal size for connecting protective bonding conductors (mm)	MULTER WALLE WALL WAS	N/A
5.6.5.2	Corrosion	TER STER WITE WALL	N/A
5.6.6	Resistance of the protective bonding system	10. 20. 20. 7 X	N/A
5.6.6.1	Requirements	TER SLIET WILLER WHITE	N/A
5.6.6.2	Test Method		N/A
5.6.6.3	Resistance (Ω) or voltage drop	MITTER MITTER WHITE WA	N/A
5.6.7	Reliable connection of a protective earthing conductor	ifet suret suret sour	N/A
5.6.8	Functional earthing	Mr. M. M. T.	N/A
Write and	Conductor size (mm²):	LITER OLIVE MILIER MALIER	N/A
at a	Class II with functional earthing marking:		N/A
July 1	Appliance inlet cl & cr (mm):	EL WILL NULL MULL	N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks	WILL MILL MILL MILL	N/A
5.7.2.1	Measurement of touch current		N/A

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	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
	and the same and t	A CONTRACTOR CONTRACTOR	- 11 N/10
5.7.2.2	Measurement of voltage	The Mr In	N/A
5.7.3	Equipment set-up, supply connections and earth connections	OUTER MAITER MALTER	N/A
5.7.4	Unearthed accessible parts:		N/A
5.7.5	Earthed accessible conductive parts:	riter unit with wi	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	SE RUSE RUSES WILL	N/A
- 18	Protective conductor current (mA)	74	N/A
Mr.	Instructional Safeguard	CLIER WILL WALLE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	TEX LIET SLIET	N/A
5.7.7.1	Touch current from coaxial cables	in my	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	JEK WHITE WHITE WH	N/A
5.7.8	Summation of touch currents from external circuits	et let liet sie	N/A
Clerk	a) Equipment connected to earthed external circuits, current (mA)	of let tex	N/A
The s	b) Equipment connected to unearthed external circuits, current (mA):	while while while	N/A
5.8	Backfeed safeguard in battery backed up suppli	ies nut m	N/A
CEP S	Mains terminal ES		N/A
1/1	Air gap (mm):	The Will Mil Mul	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	at left left lifet	P
6.2.2	Power source circuit classifications	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	(See appended table 6.2.2)	THE P
6.2.3.1	Arcing PIS:	The The The The	N/A
6.2.3.2	Resistive PIS	t let liet sliet mi	N/A
6.3	Safeguards against fire under normal operating and abnormal operating conditions		N/A
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	THE STIFF WITH WITH	N/A
J.F	Combustible materials outside fire enclosure:	1, 2, 2, 2,	N/A
6.4	Safeguards against fire under single fault condition	ons the state of the state of	Р
6.4.1	Safeguard method	Method of Control fire spread used.	Y Pre
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	A St Tet Tet	N/A

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TET INIT	while with the th	IEC 62368-1
Clause	Requirement – Test	ex crest intil and

Clause	Requirement – Test	Result – Remark	Verdict
6.4.3	Reduction of the likelihood of ignition under single	LICH STEP STEP	N/A
0.4.3	fault conditions in PS2 and PS3 circuits	24 24 A	IN/A
6.4.3.1	Supplementary safeguards	CLIER WITE WILLE	N/A
6.4.3.2	Single Fault Conditions:		N/A
ir w	Special conditions for temperature limited by fuse	lier write man an	N/A
6.4.4	Control of fire spread in PS1 circuits	a the set of	t P
6.4.5	Control of fire spread in PS2 circuits	MULL MULL MULL	P
6.4.5.2	Supplementary safeguards	at let let	N/A
6.4.6	Control of fire spread in PS3 circuits	Murit Aut. Mur.	P
6.4.7	Separation of combustible materials from a PIS	Let LET JET	N/A
6.4.7.2	Separation by distance	ver me me m	N/A
6.4.7.3	Separation by a fire barrier	tek i tek i tek ist	N/A
6.4.8	Fire enclosures and fire barriers	in my	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	t stet stret mite	N/A
6.4.8.2.1	Requirements for a fire barrier	m. m. m.	N/A
6.4.8.2.2	Requirements for a fire enclosure	LIEF STEET WITE	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	2 (3), 24	N/A
6.4.8.3.2	Fire barrier dimensions	e to the all	N/A
6.4.8.3.3	Top openings and properties	111. 11. 12.	N/A
WELL.	Openings dimensions (mm):	THE STEEL WITE	N/A
6.4.8.3.4	Bottom openings and properties	211. 21. 2.	N/A
Write W	Openings dimensions (mm):	LIER MIER WIFE O	N/A
dt d	Flammability tests for the bottom of a fire enclosure	n 2, 2	N/A
in ann	Instructional Safeguard:	itek inlies white wh	N/A
6.4.8.3.5	Side openings and properties	. L A 16	N/A
Mer	Openings dimensions (mm):	antiti mitte untit	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	tret nitet mitet	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	all the title	N/A
6.4.9	Flammability of insulating liquid	in my my m	N/A
6.5	Internal and external wiring	tek tiek atiek ast	N/A
6.5.1	General requirements	14. 14. 14.	N/A
6.5.2	Requirements for interconnection to building wiring:	- LIER NITER WITE	N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:	74 74 74	N/A
6.6	Safeguards against fire due to the connection to a	additional equipment	N/A

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		20 Jugo 1910 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LIEN INLT	THE WILL WE WE	IEC 62368-1	iek mile white
Clause	Requirement – Test	Result – Remark	Verdict

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	N/A
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
iek "Ľ	Personal safeguards and instructions:	
7.5	Use of instructional safeguards and instructions	N/A
- NITE	Instructional safeguard (ISO 7010)	de _
7.6	Batteries and their protection circuits	N/A

8	MECHANICALLY-CAUSED INJURY		LΡ
8.2	Mechanical energy source classifications	THE STEE STEE SOUTH SO	P.O
8.3	Safeguards against mechanical energy sources		L P
8.4	Safeguards against parts with sharp edges and corners		Р
8.4.1	Safeguards	MS1 applied for edges and corners.	N/A
- L .	Instructional Safeguard	m m	N/A
8.4.2	Sharp edges or corners	ALL MITE MITE	P
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	Fan blade provided	N/A
White A	MS2 or MS3 part required to be accessible for the function of the equipment	WALLER WALLER WALLER WALL	N/A
alifek mi	Moving MS3 parts only accessible to skilled person	it let let little	N/A
8.5.2	Instructional safeguard:	We are an	N/A
8.5.4	Special categories of equipment containing moving parts	LIER WALTER WALTER WALTER	N/A
8.5.4.1	General	L of the the	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	Murr and any an	N/A
8.5.4.2.1	Protection of persons in the work cell	. At Alt Jet NI	N/A
8.5.4.2.2	Access protection override	They are any	N/A
8.5.4.2.2.1	Override system	TER TER STER WITER	N/A
8.5.4.2.2.2	Visual indicator	by my my my	N/A
8.5.4.2.3	Emergency stop system	EX STEX WILL NUTE OF	N/A
A WILER	Maximum stopping distance from the point of activation (m)	et tet tet stet stet	N/A
TEX.	Space between end point and nearest fixed mechanical part (mm)	with the text text	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
25424		TEN TEN TEN	NI/A
8.5.4.2.4	Endurance requirements	m. m. m.	N/A
UNITE W	Mechanical system subjected to 100 000 cycles of operation	NITER MATER MATERY	N/A
SEL S	- Mechanical function check and visual inspection	a a state	N/A
20	- Cable assembly	ere where mer on	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	A WILL MILLER MILL	N/A
8.5.4.3.1	Equipment safeguards	1 1 1	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	WILL MALL MALL	N/A
8.5.4.3.3	Disconnection from the supply	A ST ST	N/A
8.5.4.3.4	Cut type and test force (N):	WILL MULL MULL M	N/A
8.5.4.3.5	Compliance	a at at a	N/A
8.5.5	High pressure lamps	in my my my	N/A
KILLER	Explosion test	t set set sie	N/A
8.5.5.3	Glass particles dimensions (mm)	me m m	N/A
8.6	Stability of equipment	TER LIER NUTER	N/A
8.6.1	General	1/12 2/1	N/A
Vry ANG	Instructional safeguard:	THE SINITE WI	N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	E WILL WILL MILL	N/A
8.6.2.3	Downward force test	at at all	N/A
8.6.3	Relocation stability	Write Muri Muri	N/A
CLIENT OF	Wheels diameter (mm):	at let let	J. J. C.
7), 7),	Tilt test	The Mile Miles	N/A
8.6.4	Glass slide test	TER TER STER OF	N/A
8.6.5	Horizontal force test	we me m	N/A
8.7	Equipment mounted to wall, ceiling or other struc	cture	N/A
8.7.1	Mount means type	24, 24, 2	N/A
8.7.2	Test methods	SLIER MLIER MALTE	N/A
jet .	Test 1, additional downwards force (N)	24, 25, 2	N/A
vr. m	Test 2, number of attachment points and test force (N)	NITER WALTER WALTER W	N/A
The MUTTE	Test 3 Nominal diameter (mm) and applied torque (Nm)	ex unitex uniter uni	N/A
8.8	Handles strength	t let let let	N/A
8.8.1	General	No handle	N/A

N/A

8.8.2

Handle strength test

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		The state of the s	-4, -4,
Clause	Requirement – Test	Result – Remark	Verdict
an co	Number of handles:	While while while	sur
-LIEN II	Force applied (N)	at alt tet	JER JER
8.9	Wheels or casters attachment requirements	Merit Mer Mer M	N/A
8.9.2	Pull test	Not such equipment	N/A
8.10	Carts, stands and similar carriers	VE ME ME	N/A
8.10.1	General	Not such equipment	N/A
8.10.2	Marking and instructions	m m m	N/A
8.10.3	Cart, stand or carrier loading test	t lifet wifet while o	N/A
t	Loading force applied (N):	20, 20, 4	N/A
8.10.4	Cart, stand or carrier impact test	STEEL WITER WALTER WA	N/A
8.10.5	Mechanical stability		N/A
- m	Force applied (N)	WELL WILL WALL WALL	211,5 711
8.10.6	Thermoplastic temperature stability	e at at let	N/A
8.11	Mounting means for slide-rail mounted equipmen	nt (SRME)	N/A
8.11.1	General	Not such equipment	N/A
8.11.2	Requirements for slide rails	mi, mr. m. n	N/A
ALTER AIRL	Instructional Safeguard:	at the state of	N/A
8.11.3	Mechanical strength test	The sale of the sa	N/A
8.11.3.1	Downward force test, force (N) applied:	the the little safe	N/A
8.11.3.2	Lateral push force test	in in in	N/A
8.11.3.3	Integrity of slide rail end stops	CIEN NITER MITE	N/A
8.11.4	Compliance	20, 20, 20,	N/A
8.12	Telescoping or rod antennas	LIER WILLER WILLER	N/A
	Button/ball diameter (mm)		

9	THERMAL BURN INJURY		P.C
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		P
9.3.1	Touch temperatures of accessible parts:	(See appended table 9.3)	Р
9.3.2	Test method and compliance	at at at at	P
9.4	Safeguards against thermal energy sources		N/A
9.5	Requirements for safeguards		N/A
9.5.1	Equipment safeguard	The Mr. M. A	N/A
9.5.2	Instructional safeguard	e the the the	N/A
9.6	Requirements for wireless power transmitters	Mrs. Mrs. Mrs. Mrs.	N/A
9.6.1	General	Not such equipment	N/A

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Clause Requirement – Test Result – Remark				
9.6.2	Specification of the foreign objects	White White Mile W	N/A	

10	RADIATION	LIFE THE STEEL STEELS	ľΡ
10.2	Radiation energy source classification		Р
10.2.1	General classification	LED is considered as RS1	Р
- 2	Lasers:	Mr. M. M.	_
UNLIE V	Lamps and lamp systems:	RS1	_
``	Image projectors:	20, 20, 2, 7	
ner w	X-Ray:	LIFE OLIFE WALLE WHILE	
et s	Personal music player:		
10.3	Safeguards against laser radiation	LIFE MILIER MALIE WALL WE	N/A
MUTIER	The standard(s) equipment containing laser(s) comply:	Et NIEK WIEK WITER WITE	N/A
10.4	Safeguards against optical radiation from lamps LED types)	s and lamp systems (including	P
10.4.1	General requirements	LED is considered as RS1.	Р
VILLE MUE	Instructional safeguard provided for accessible radiation level needs to exceed	TEK VINITER MALTE SA	N/A
IER WILLE	Risk group marking and location:	THE STATE OF	N/A
	Information for safe operation and installation	an an an	N/A
10.4.2	Requirements for enclosures	y THE THE STREET MITE	N/A
``.	UV radiation exposure:	me me me	N/A
10.4.3	Instructional safeguard:	THE STEE STEET SPITE O	N/A
10.5	Safeguards against X-radiation	m. m. m.	N/A
10.5.1	Requirements	THE STIER WITH MITTER AND THE WAY	N/A
	Instructional safeguard for skilled persons:	The state of	_
10.5.3	Maximum radiation (pA/kg)	the mile ancie wall wal	_
10.6	Safeguards against acoustic energy sources	1 1 1 1	N/A
10.6.1	General	WITE WILL WILL WILL	N/A
10.6.2	Classification	I st set set	N/A
15. 24.	Acoustic output L _{Aeq,T} , dB(A):	WILL MULL MULL MULL MULL MULL MULL MULL M	N/A
TER STE	Unweighted RMS output voltage (mV):	at let let let let let	N/A
211	Digital output signal (dBFS):	r mur mur mr m	N/A
10.6.3	Requirements for dose-based systems	o- net the state asta	N/A
10.6.3.1	General requirements	Mer. Mer. Mr. M.	N/A
10.6.3.2	Dose-based warning and automatic decrease	et let itel itel	N/A

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Clause	Requirement – Test	Result – Remark	Verdict		
10.6.3.3	Exposure-based warning and requirements	t night night mile	N/A		
70.0.0.0	30 s integrated exposure level (MEL30):	L A A	N/A		
11, 11,	Warning for MEL ≥ 100 dB(A):	WALLE WALL WALL	N/A		
10.6.4	Measurement methods	at let let .	N/A		
10.6.5	Protection of persons	West Aug Aug Au	N/A		
ENANTE	Instructional safeguards:	CIT THE THE NUT	N/A		
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	A Let Text	N/A		
10.6.6.1	Corded listening devices with analogue input	White Aut were	N/A		
ALTER AN	Listening device input voltage (mV):	Let Tet Stet	N/A		
10.6.6.2	Corded listening devices with digital input	aber the the to	N/A		
LIET ANLIE	Max. acoustic output L _{Aeq,T} , dB(A):	the test they are	N/A		
10.6.6.3	Cordless listening devices	is me m	N/A		
N. California	Max. acoustic output L _{Aeq,T} , dB(A):	et let itet ite	N/A		

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		un'P ∪
B.1	General	at a liter state	ITEP IN
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	THE TWO LITTLE METERS AND	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	PIL
ZEX.	Audio Amplifiers and equipment with audio amplifiers	MULT AND AND AND	N/A
B.2.3	Supply voltage and tolerances	alter with mit was	N/A
B.2.5	Input test	(See appended table B.2.5)	S ^O P S
B.3	Simulated abnormal operating conditions		N/A
B.3.1	General	L St St St S	N/A
B.3.2	Covering of ventilation openings	me me me m	N/A
LIFER	Instructional safeguard:	- LET THE STEP	N/A
B.3.3	DC mains polarity test	mer any an	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	to the many	N/A
B.3.6	Reverse battery polarity	et the tier outer on	N/A
B.3.7	Audio amplifier abnormal operating conditions	Mr. Mr. Mr.	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended tables B.3, B.4)	N/A
B.4	Simulated single fault conditions	it it to	Pັ

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01	IEC 62368-1		1,4
Clause	Requirement – Test	Result – Remark	Verdict
B.4.1	General	nite wife white wh	Р
B.4.2	Temperature controlling device	No such devices	N/A
B.4.3	Blocked motor test	No motor used	N/A
B.4.4	Functional insulation	(See appended tables B.3, B.4)	WALLE P.
B.4.4.1	Short circuit of clearances for functional insulation	and the state of	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	white mit was w	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	white white while wh	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	ALTER WHITE WALTER WALTER	P.
B.4.6	Short circuit or disconnection of passive components	LEE WALTER WALTER	IN THE PU
B.4.7	Continuous operation of components	and the set	N/A
B.4.8	Compliance during and after single fault conditions:	(See appended tables B.3, B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions	No such battery	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	E ALTE WITH WALTE W	N/A
C.1.3	Test method	70 T X	N/A
C.2	UV light conditioning test	CRITER WITE WALL WAL	N/A
C.2.1	Test apparatus:	ST ST ST ST	N/A
C.2.2	Mounting of test samples	WHITE WALL MALL WALL	N/A
C.2.3	Carbon-arc light-exposure test	at the first	N/A
C.2.4	Xenon-arc light-exposure test	TEL WILL MUT MUT.	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	murit murit murit	N/A
D.2	Antenna interface test generator	et let let o	N/A
D.3	Electronic pulse generator	Merce and many and	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
TER WILL	Maximum non-clipped output power (W):	Et JET JET JET	₆ –
, ,,,	Rated load impedance (Ω):	11/2 11/2 11/2	_
MALIE	Open-circuit output voltage (V)	- LIER ALTER MITER AN	<u> </u>
	Instructional safeguard:	11, 11, 21, 1,	

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11010101100	110 1117.1207.0011111200	1 490 2 1 0 1 1 1	
LIER MITE	WILL ME MUT MY	IEC 62368-1	THE STEE MITE WALTE
Clause	Requirement – Test	Result – Rem	ark Verdict

E.2	Audio amplifier normal operating conditions	with the one of	N/A
JEK	Audio signal source type:	at at let set	_
24, 24,	Audio output power (W)	neit met met me	_
LIEK OL	Audio output voltage (V):	et set set stet	_
	Rated load impedance (Ω)	the sure of	_
en chile	Requirements for temperature measurement	et the the site of	N/A
≣.3	Audio amplifier abnormal operating conditions	The Tries of the	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	Р
.1 T	General	THE THE STATE STATES	P
	Language	English	_
2	Letter symbols and graphical symbols	TEX TEX STEE WITE NO	P.O
2.1	Letter symbols according to IEC60027-1	11, 11, 2,	Р
2.2	Graphic symbols according to IEC, ISO or manufacturer specific	White white white whi	Р
F.3	Equipment markings	tet tet stet stet site	P
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	P
F.3.2	Equipment identification markings	See below	J P
3.2.1	Manufacturer identification	(See copy of marking plate)	Р
3.2.2	Model identification	(See copy of marking plate)	P
3.3	Equipment rating markings	(See copy of marking plate)	Р
3.3.1	Equipment with direct connection to mains	at all left the	N/A
3.3.2	Equipment without direct connection to mains	net with our on	Р
3.3.3	Nature of the supply voltage	(See copy of marking plate)	(T ^P P ₀
3.3.4	Rated voltage:	(See copy of marking plate)	Р
3.3.5	Rated frequency	(See copy of marking plate)	Р
3.3.6	Rated current or rated power	(See copy of marking plate)	Р
3.3.7	Equipment with multiple supply connections	TER THE STIEF WITE	N/A
3.4	Voltage setting device	The An An A	N/A
.3.5	Terminals and operating devices	LIET ALTER MITE WILLEY	N/A
3.5.1	Mains appliance outlet and socket-outlet markings:		N/A
3.5.2	Switch position identification marking	IER OLIER MALTE MALTE WA	N/A
F.3.5.3	Replacement fuse identification and rating markings	- THE LIFE BLIEF WILL	N/A
	Instructional safeguards for neutral fuse	24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	N/A
F.3.5.4	Replacement battery identification marking:	THE THE LIFE WITE	N/A

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0.	IEC 62368-1		1,
Clause	Requirement – Test	Result – Remark	Verdict
F.3.5.5	Neutral conductor terminal	antick white white whi	N/A
F.3.5.6	Terminal marking location	a state of	N/A
F.3.6	Equipment markings related to equipment classification	Marie Marie Marie Marie	N/A
F.3.6.1	Class I equipment	LIET MITE MILITY WILLY	N/A
F.3.6.1.1	Protective earthing conductor terminal	and the state of	N/A
F.3.6.1.2	Protective bonding conductor terminals	White Whit whi w	N/A
F.3.6.2	Equipment class marking	A A A S	N/A
F.3.6.3	Functional earthing terminal marking	While Man All All	N/A
F.3.7	Equipment IP rating marking:	IPX0	N/A
F.3.8	External power supply output marking:	wer are are an	N/A
F.3.9	Durability, legibility and permanence of marking All markings required are easily discernible under normal lighting conditions.		Р
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	WP WALTER
F.4	Instructions		
TER STE	a) Information prior to installation and initial use		P
t Tet	b) Equipment for use in locations where children not likely to be present	THE THE THE THE	N/A
m.	c) Instructions for installation and interconnection	Provided in user's manual	€ P
UNLIEK UN	d) Equipment intended for use only in restricted access area	SLIER WIFE WITER WHITE	N/A
et s	e) Equipment intended to be fastened in place	and the state of	N/A
ir m	f) Instructions for audio equipment terminals	THE WALL WALL WALL V	N/A
Et JEK	g) Protective earthing used as a safeguard	e at at at	N/A
- TEX	h) Protective conductor current exceeding ES2 limits	MULL MULL MULL MULL	N/A
wer a	i) Graphic symbols used on equipment	ALTER WALL WALL WALL	P
INLIEK WIN	j) Permanently connected equipment not provided with all-pole mains switch	TEX LIFE SLIET MILES	N/A
TEK ALTE	k) Replaceable components or modules providing safeguard function	et let let let	N/A
20	I) Equipment containing insulating liquid	Mr. Mr. M. M.	N/A
MITE	m) Installation instructions for outdoor equipment	e tek itek altek mi	N/A
F.5	Instructional safeguards	The sale of the sale	Р

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recipionio	110.: W17.207.00117 1200	1 ago 20 01 1 1	
LIER WIT	White Mut, Mur a	IEC 62368-1	ALTER MILE WALTE
Clause	Requirement – Test	Result – Remark	Verdict

G	COMPONENTS		Р
G.1	Switches	at at let th	N/A
G.1.1	General	No such component	N/A
G.1.2	Ratings, endurance, spacing, maximum load	et get get gret	N/A
G.1.3	Test method and compliance	The man and	N/A
G.2	Relays	et let let liter o	N/A
G.2.1	Requirements	No such component	N/A
G.2.2	Overload test	TEX LIFE NITER WIT	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	at the test states	N/A
G.2.4	Test method and compliance	ve, me me m	N/A
G.3	Protective devices	At Let JET LIET	Po
G.3.1	Thermal cut-offs	No such component	N/A
MULTER	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	Multer whiter whiter wh	N/A
UNLTEK V	Thermal cut-outs tested as part of the equipment as indicated in c)	NATER WRITER WRITER WHITE	N/A
G.3.1.2	Test method and compliance	The state of the s	N/A
G.3.2	Thermal links	Note only	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	and the second	N/A
- 18	b) Thermal links tested as part of the equipment	70 7	N/A
G.3.2.2	Test method and compliance	CHIEF WITE WALL WALL	N/A
G.3.3	PTC thermistors	No such component	N/A
G.3.4	Overcurrent protection devices	Current fuse F1 provided	Р
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	Telt street marget springs	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	t tot itet siret se	N/A
G.3.5.2	Single faults conditions:	m. m. m.	N/A
G.4	Connectors	TEX LIEX NUTER AND	N/A
G.4.1	Spacings	m, m, m,	N/A
G.4.2	Mains connector configuration	TEX STEE OUTER SOUTER	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	at all the said.	N/A
3.5	Wound components	the the sail of	N/A
G.5.1	Wire insulation in wound components	- THE LITTER SLITTER ON	N/A
G.5.1.2	Protection against mechanical stress	Any Any Any on	N/A
G.5.2	Endurance test	LET THE STATE STA	N/A

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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
G.5.2.1	General test requirements	A WILL AND THE AND THE AND THE	N/A
G.5.2.2	Heat run test	a at at the	N/A
11, 11,	Test time (days per cycle):	mill mill mill mill	_
III NI	Test temperature (°C):	at at at det	_
G.5.2.3	Wound components supplied from the mains	rete me i me vine	N/A
G.5.2.4	No insulation breakdown	It TEX STEX SITES ON	N/A
G.5.3	Transformers	Aut. Aut. Au. 20.	N/A
G.5.3.1	Compliance method:	The transformers meet the requirements given in G.5.3.2 and G.5.3.3	N/A
n 24	Position:	NITE WALL WALL WALL	N/A
LIEH WALTE	Method of protection:	Over current protection by circuit design.	N/A
G.5.3.2	Insulation	Primary windings and secondary windings are separated by Reinforced insulation.	N/A
The ch	Protection from displacement of windings:	By bobbin and insulating tape	_
G.5.3.3	Transformer overload tests	(See appended tables B.3, B.4)	N/A
G.5.3.3.1	Test conditions	2 7 7	N/A
G.5.3.3.2	Winding temperatures	the original and an	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	intite wait water water	N/A
G.5.3.4.1	General	a at let let	N/A
in in	FIW wire nominal diameter:	arite white mair war.	_
G.5.3.4.2	Transformers with basic insulation only	at all let tell	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	it with any and a	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	Murit Murit Mer Mus	N/A
G.5.3.4.5	Thermal cycling test and compliance	LIEF WILL WILL WILL	N/A
G.5.3.4.6	Partial discharge test	M. A. A.	N/A
G.5.3.4.7	Routine test	LIFE WITE WAIT WALL	N/A
G.5.4	Motors	No such component	N/A
G.5.4.1	General requirements	CERTAINTIE MALIE MALIE AN	N/A
G.5.4.2	Motor overload test conditions	1 1 1 1 5	N/A
G.5.4.3	Running overload test	White Must must must make	N/A
G.5.4.4.2	Locked-rotor overload test	a state of	N/A

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2. 20.	IEC 62368-1	THE SECOND	are ar
Clause	Requirement – Test	Result – Remark	Verdict
. Wille	Total disease (dosse)	E TEL TEL MIE	The The
	Test duration (days)	Mr. Mr. M.	
G.5.4.5	Running overload test for DC motors	- TEX TEX	N/A
G.5.4.5.2	Tested in the unit	The the tree	N/A
G.5.4.5.3	Alternative method	THE THE THE	N/A
G.5.4.6	Locked-rotor overload test for DC motors	11, 11, 12,	N/A
G.5.4.6.2	Tested in the unit	SH WILL WILL	N/A
	Maximum Temperature	1/1 1/2	N/A
G.5.4.6.3	Alternative method	A CIER NITER MILE	N/A
G.5.4.7	Motors with capacitors	111 11.	N/A
G.5.4.8	Three-phase motors	LITER DITER MATERIAL	N/A
G.5.4.9	Series motors	70, 72	N/A
ir mir	Operating voltage	NIET WITE WITE WI	- m -
G.6	Wire Insulation	in a state	N/A
G.6.1	General	ter until motil motil	N/A
G.6.2	Enamelled winding wire insulation	at the state	N/A
G.7	Mains supply cords	write with with	N/A
G.7.1	General requirements	at a set the	N/A
120	Type	a Cours on	, , _
G.7.2	Cross sectional area (mm² or AWG)		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	e we we the	N/A
G.7.3.2	Cord strain relief	antic with with	N/A
G.7.3.2.1	Requirements	* at at	N/A
in in	Strain relief test force (N)	inter anti mi v	N/A
G.7.3.2.2	Strain relief mechanism failure	st st st	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	With the Me	N/A
G.7.3.2.4	Strain relief and cord anchorage material	at let let lit	N/A
G.7.4	Cord Entry	you are an	N/A
G.7.5	Non-detachable cord bend protection	H TEK STEK STEK	N/A
G.7.5.1	Requirements	me me me	N/A
G.7.5.2	Test method and compliance	TER STER STER	N/A
JEY NIE	Overall diameter or minor overall dimension, <i>D</i> (mm)	i de de de d	
7,1	Radius of curvature after test (mm)	r wer mir me	70,
G.7.6	Supply wiring space	et det det det	N/A
G.7.6.1	General requirements	Mer me me	N/A
G.7.6.2	Stranded wire	at at at	N/A

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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
G.7.6.2.1	Requirements	" THE WATER WATER	N/A
G.7.6.2.2	Test with 8 mm strand	A A A	N/A
G.8	Varistors	WILLIE MULTE MILL MILL	N/A
G.8.1	General requirements	Approved varistor used	N/A
G.8.2	Safeguards against fire	rete when when when	N/A
G.8.2.1	General	A LET THE STEET	N/A
G.8.2.2	Varistor overload test	mi mi mi	N/A
G.8.2.3	Temporary overvoltage test	TEX STEP STEP 10	N/A
G.9	Integrated circuit (IC) current limiters	m. m. m.	N/A
G.9.1	Requirements	No such component	N/A
A	IC limiter output current (max. 5A):	and the same of	_
ere where	Manufacturers' defined drift:	LEE OLIER BLIEF MILIER	en _
G.9.2	Test Program		N/A
G.9.3	Compliance	E CLIFE MILE WALLE	N/A
G.10	Resistors	L A At	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	The state of	N/A
G.10.3	Resistor test	a carri anti	N/A
G.10.4	Voltage surge test	The state of the	N/A
G.10.5	Impulse test	anti uni un	N/A
G.10.6	Overload test	F JEH JEH JEH	N/A
G.11	Capacitors and RC units	my my my	N/A
G.11.1	General requirements	THE THE STATE OF	N/A
G.11.2	Conditioning of capacitors and RC units	our on an an	N/A
G.11.3	Rules for selecting capacitors	THE CITY NITES ONLY	N/A
G.12	Optocouplers	- 14 14 14 14 14 14 14 14 14 14 14 14 14	N/A
THE	Optocouplers comply with IEC 60747-5-5 with specifics	White white white	N/A
JALTE N	Type test voltage V _{ini,a}	- TEK JEK STEEL OF	LTE
- S	Routine test voltage, V _{ini, b} :	me me me	_
G.13	Printed boards	THE STEE MITE WALL	P
G.13.1	General requirements	12 20 20 3	P
G.13.2	Uncoated printed boards	TEX OLIER WILL WHILE	N/A
G.13.3	Coated printed boards	20, 20, 7	N/A
G.13.4	Insulation between conductors on the same inner surface	WALLE MILE MILL N	N/A

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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
G.13.5	Insulation between conductors on different surfaces	WHILE WHILE WHILE	N/A
Write M	Distance through insulation:	alter alter antier	N/A
et a	Number of insulation layers (pcs):	A STATE OF THE STA	—
G.13.6	Tests on coated printed boards	LIET WILLE WILLE W	N/A
G.13.6.1	Sample preparation and preliminary inspection	1 + 1 1	N/A
G.13.6.2	Test method and compliance	MULT WHIT WHI	N/A
G.14	Coating on components terminals	. A st st	N/A
G.14.1	Requirements:	White the wife	N/A
G.15	Pressurized liquid filled components	at at at	N/A
G.15.1	Requirements	ver any and a	N/A
G.15.2	Test methods and compliance	at let set i	N/A
G.15.2.1	Hydrostatic pressure test	The sur su	N/A
G.15.2.2	Creep resistance test	t tet tee ale	N/A
G.15.2.3	Tubing and fittings compatibility test	any any any	N/A
G.15.2.4	Vibration test	LEK SLIEF MILE	N/A
G.15.2.5	Thermal cycling test	91 24 2	N/A
G.15.2.6	Force test	THE MILE W	N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	THE WITE WALL	N/A
G.16.1	Condition for fault tested is not required	2 14 15	N/A
me .	ICX with associated circuitry tested in equipment	WHILE WHILE MULT	N/A
TEX.	ICX tested separately	x d dt	N/A
G.16.2	Tests	Will Aury Aug A	N/A
ITEK WALT	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	TEX MITER MITER ON	TEP W
ek whitek	Mains voltage that impulses to be superimposed on	t itet stiet snif	, mri —
NLTEK .	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	Tet Tet Tet	NUTE -
G.16.3	Capacitor discharge test:	ant me m	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	ier me m. n.	N/A
H.2	Method A	TER STEEL STEEL WE	N/A
H.3	Method B	711 20 20	N/A
H.3.1	Ringing signal	- LIER CLIER WILL	N/A
H.3.1.1	Frequency (Hz):	71, 2,	, L

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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1.2	Valtage (V)	t is the state of	
	Voltage (V)	The ship ship is	_
H.3.1.3	Cadence; time (s) and voltage (V)	THE THE STATE WITH	_
H.3.1.4	Single fault current (mA):	11. 11. 12.	_
H.3.2	Tripping device and monitoring voltage	TEX STEX STER MITE	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	at the lift of	N/A
H.3.2.2	Tripping device	Murral Mar My Miles	N/A
H.3.2.3	Monitoring voltage (V)	the text text with	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUINSULATION	JT INTERLEAVED	N/A
J.1	General	With Will Mut Will	N/A
TIEK WITT	Winding wire insulation:	Approved triple insulated wire used. (See appended table 4.1.2)	TEK-NI
" Nation	Solid round winding wire, diameter (mm):	et alter miter and the sunt	N/A
CLIEK	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	THE THE LIFE MATER	N/A
J.2/J.3	Tests and Manufacturing	(See separate test report)	N/A
K	SAFETY INTERLOCKS	at a lite while	N/A
K.1	General requirements		N/A
TE WILL	Instructional safeguard:	ter ite air aire ar	N/A
K.2	Components of safety interlock safeguard mech	anism	N/A
K.3	Inadvertent change of operating mode	t alter witer ancier and	N/A
K.4	Interlock safeguard override	The sale of the sale	N/A
K.5	Fail-safe	alter mitch unlie walte	N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks	LITE WALLE WALL WALL OF	N/A
K.6.1	Endurance requirement	e of at at	N/A
K.6.2	Test method and compliance	white must make my	N/A
K.7	Interlock circuit isolation	. It let let let	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	WHITE MUST MUST MAN	N/A
ing my	In circuit connected to mains, separation distance for contact gaps (mm)	WILL MULL MULL MULL	N/A
in mili	In circuit isolated from mains, separation distance for contact gaps (mm)	LEK MULLER MULLER MULLER MI	N/A
WALTER	Electric strength test before and after the test of K.7.2	MILIER WALTER WALTER WALTER	N/A
K.7.2	Overload test, Current (A):	a a at at	N/A

	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
K.7.3	Endurance test	Control of the contro	N/A
K.7.4	Electric strength test	W. W. A.	N/A
L.7.4	DISCONNECT DEVICES	alik let on the with	N/A
L.1 Lini	General requirements	Plug used for disconnect device	N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized	No accessible parts on the supply side of the disconnect device	N/A
L.4	Single-phase equipment	The disconnect device disconnect both poles simultaneously	N/A
L.5	Three-phase equipment	and the state of	N/A
L.6	Switches as disconnect devices	THE WITTE WALL WALL ON	N/A
L.7 50th	Plugs as disconnect devices	e se se set s	N/A
L.8	Multiple power sources	write with one one	N/A
JEK	Instructional safeguard:	at at 1st 5st	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	EIR PROTECTION CIRCUITS	Р
M.1	General requirements		√°P
M.2	Safety of batteries and their cells	211 211 211	Р
M.2.1	Batteries and their cells comply with relevant IEC standards	No battery used	P
M.3	Protection circuits for batteries provided within the equipment	THE MILES WATER WALL	P
M.3.1	Requirements	Si to the	P
M.3.2	Test method	WILL MILL MALL MALL	N _U P
d 3	Overcharging of a rechargeable battery	a a at at	P
21/2	Excessive discharging	The Write Murey Aug. A.	Р
EK WILLER	Unintentional charging of a non-rechargeable battery	t milet milet united uni	N/A
25	Reverse charging of a rechargeable battery	The state of	N/A
M.3.3	Compliance	WITE WALL WILL MALL	ALL P
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	INTER P
M.4.1	General	20. 20. 2	P
M.4.2	Charging safeguards	ex the tie attention	Р

Р

Р

Р

Requirements

Compliance...:

Fire enclosure....:

M.4.2.1

M.4.2.2

M.4.3

	IEC 62368-1	
Clause	Requirement – Test Result – Remark	Verdict
M.4.4	Drop test of equipment containing a secondary lithium battery	Р
M.4.4.2	Preparation and procedure for the drop test	√ P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	P N
M.4.4.4	Check of the charge/discharge function	, P
M.4.4.5	Charge / discharge cycle test	Р
M.4.4.6	Compliance	P
M.5	Risk of burn due to short-circuit during carrying	N/A
M.5.1	Requirement	N/A
M.5.2	Test method and compliance	N/A
M.6	Safeguards against short-circuits	√ P
M.6.1	External and internal faults	Р
M.6.2	Compliance	P
M.7	Risk of explosion from lead acid and NiCd batteries	N/A
M.7.1	Ventilation preventing explosive gas concentration	N/A
70, 2	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
	Minimum air flow rate, Q (m³/h)	N/A
M.7.3	Ventilation tests	N/A
M.7.3.1	General	N/A
M.7.3.2	Ventilation test – alternative 1	N/A
*	Hydrogen gas concentration (%):	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
<i>A</i> 4	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
et Let	Hydrogen gas concentration (%)	N/A
M.7.4	Marking	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	N/A
M.8.1	General	N/A
M.8.2	Test method	N/A
M.8.2.1	General	N/A
M.8.2.2	Estimation of hypothetical volume V _Z (m³/s):	. <u>"</u>
M.8.2.3	Correction factors:	(J
M.8.2.4	Calculation of distance d (mm):	-11/2
M.9	Preventing electrolyte spillage	N/A

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y 1/2/2	IEC 62368-1		Vr. 92
Clause	Requirement – Test	Result – Remark	Verdict
M.9.1	Protection from electrolyte spillage	Write Multer Multer Mult	N/A
M.9.2	Tray for preventing electrolyte spillage	at at at the	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	mer and any and	N/A
r. 24	Instructional safeguard:	LIE WILL MILL MILL	N/A
Nt de	ELECTROCHEMICAL POTENTIALS	a state of the	N/A
21/2	Material(s) used:	whit with must me	701
0 30	MEASUREMENT OF CREEPAGE DISTANCES AN	ID CLEARANCES	N/A
20 .	Value of X (mm)	Complied	20-
Puter	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	S A A A A	N/A
P.1	General	in my my	N/A
P.2	Safeguards against entry or consequences of en	try of a foreign object	N/A
P.2.1	General	240 241 241 2	N/A
P.2.2	Safeguards against entry of a foreign object	t TEX NITER WITE WA	N/A
WALTEK V	Location and Dimensions (mm):	Side enclosure: Rectangle openings with dimension 3.02mm x 27.65mm max.	4 WALTER
P.2.3	Safeguards against the consequences of entry of a foreign object	Within the projected volume as depicted in Figure P.3 there are no bare conductive parts of ES3 or PS3 circuits.	N/A
P.2.3.1	Safeguard requirements	with the me of	N/A
WALTER	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	THE MILES WALTER WALT	N/A
NALTEK W	Transportable equipment with metalized plastic parts:	if the street states stated	N/A
P.2.3.2	Consequence of entry test:		N/A
P.3	Safeguards against spillage of internal liquids	LIER WILLER WHILE WHILE	N/A
P.3.1	General	The state of	N/A
P.3.2	Determination of spillage consequences	MILE WILL WALL WA	N/A
P.3.3	Spillage safeguards	and the state of	N/A
P.3.4	Compliance	WILL MILL MILL MILL	N/A
P.4	Metallized coatings and adhesives securing part	S & at at let	N/A
P.4.1	General	TIL MULL MULL MULL	N/A
P.4.2	Tests	at at all all	N/A
20	Conditioning, T _C (°C):	Mur Mur Mur M	<u></u>
LIFE	Duration (weeks)	- Jet Jet Jet J	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A

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- 41°	IEC 62368-1	The the state of t	15 11
Clause	Requirement – Test	Result – Remark	Verdict
Q.1.1	Requirements	MILE MILE MILE	N/A
(EX	a) Inherently limited output	(See appended table Q.1)	N/A
11 1	b) Impedance limited output	until muti muti mi	N/A
TEK N	c) Regulating network limited output	(See appended table Q.1)	N/A
7,1	d) Overcurrent protective device limited output	the me me	N/A
et nite	e) IC current limiter complying with G.9	at the the state of	N/A
Q.1.2	Test method and compliance	(See appended table Q.1)	N/A
MITE	Current rating of overcurrent protective device (A):	TEX LIER NITER WIL	N/A
Q.2	Test for external circuits – paired conductor cable	A St. St.	N/A
()	Maximum output current (A):	UT. MUT. My My	N/A
ITEK RIT	Current limiting method:	et let let liet	. Jet
R	LIMITED SHORT CIRCUIT TEST	the me me	N/A
R.1	General	t get get aget on	N/A
R.2	Test setup	Mr. My My W	N/A
VIVE O	Overcurrent protective device for test:	THE LITER SLITER SOLITE	MILLE
R.3	Test method	are the same of the	N/A
VILL AND	Cord/cable used for test:	ALL CONTERNATION	3 100 -3
R.4	Compliance		N/A
S of	TESTS FOR RESISTANCE TO HEAT AND FIRE	ser outer white while w	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
t	Samples, material:	711 1 x x 0	
Wer W	Wall thickness (mm):	aliet mire anire wall	11/2
at a	Conditioning (°C):	a at at	10t-
ان مان ان مان	Test flame according to IEC 60695-11-5 with conditions as set out	THE WALLE WALL WALL	N/A
MARIE	- Material not consumed completely	* NIET WITE WHITE W	N/A
, de	- Material extinguishes within 30s	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
Mury 4	- No burning of layer or wrapping tissue	CITE WILL WILL WAS	N/A
S.2	Flammability test for fire enclosure and fire barri	ier integrity	N/A
ne in	Samples, material:	Life while while while	1/2
THE ST	Wall thickness (mm):	at at at all	JEK-
211	Conditioning (°C):	MULL MULL MULL	4,
S.3	Flammability test for the bottom of a fire enclosu	ire of the contraction	N/A
S.3.1	Mounting of samples	Mury Mury Any Any	N/A
S.3.2	Test method and compliance	at at the se	N/A

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01-	IEC 62368-1	Dilk D	1,7
Clause	Requirement – Test	Result – Remark	Verdict
2/1-2/2	Mounting of samples:	Chilly Will Mill Mi	1/2
(Et	Wall thickness (mm):	a at at at	+ <u>16</u>
S.4	Flammability classification of materials	Write Mill Mill Mill	N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power exceeding 4 000 W		
et Je	Samples, material:	a state of the	Jet -
-20	Wall thickness (mm)	WHILL ME ME M	20)
- NITER	Conditioning (°C):	et tet stet st	E16
Т	MECHANICAL STRENGTH TESTS	me me me	Р
T.1	General	tet itet ittet nitet	P
T.2	Steady force test, 10 N:	(See appended table T.2)	N/A
T.3	Steady force test, 30 N:	LET LIFE SLIFE MITEL	N/A
T.4	Steady force test, 100 N	70, 70, 2,	Р
T.5	Steady force test, 250 N	(See appended table T.5)	N/A
T.6	Enclosure impact test	(See appended table T.6)	N/A
Mer 1	Fall test	CHER WITE WITE WILL	N/A
All .	Swing test	The st	N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	P
T.9	Glass Impact Test:	No parts made of glass	N/A
T.10	Glass fragmentation test		
- C	Number of particles counted:	No such glass provided	N/A
T.11	Test for telescoping or rod antennas		
`+	Torque value (Nm):	No such antennas provided	N/A
U Juni	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General	EK STEK WILE MULE M	N/A
	Instructional safeguard:	20 20 1	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen		N/A
A m	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General	it will mult were a	N/A
V.1.2	Surfaces and openings tested with jointed test probes	- NITER WITER WITER	N/A
V.1.3	Openings tested with straight unjointed test probes	10, 0, 0	N/A

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The state of the s	IEC 62368-1	the the strength of	r. "
Clause	Requirement – Test	Result – Remark	Verdict
V.1.4	Plugs, jacks, connectors tested with blunt probe	COLLEGE OF THE STATE OF THE STA	N/A
V.1.5	Slot openings tested with wedge probe	10 20 A	N/A
V.1.6	Terminals tested with rigid test wire	active on the surfice	N/A
V.2	Accessible part criterion	A A A A	N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
- 164	Clearance:	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
Yur	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General Not such equipment		N/A
Y.2	Resistance to UV radiation	RITER WITE WILL WILL	N/A
Y.3	Resistance to corrosion	a of the	N/A
Y.3	Resistance to corrosion	THE WITT WILL WE W	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	t outer outles outles uni	N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	nite unite wait wal	N/A
Y.3.4	Test procedure	The set	N/A
Y.3.5	Compliance	The same same s	N/A
Y.4	Gaskets	The state of	N/A
Y.4.1	General	with Aut Mr. M.	N/A
Y.4.2	Gasket tests	at let let let	N/A
Y.4.3	Tensile strength and elongation tests	me me me m	N/A
CLIEB OF	Alternative test methods:	LET LET LET VIEW	N/A
Y.4.4	Compression test	We me me	N/A
Y.4.5	Oil resistance	all the tipe attern	N/A
Y.4.6	Securing means	14 14 14	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General	The My my	N/A
Y.5.2	Protection from moisture	LIER SLIER WILL MULT	N/A
J.	Relevant tests of IEC 60529 or Y.5.3:	n n n	N/A
Y.5.3	Water spray test	LITER ONLIE WALTER WALTER	N/A
Y.5.4	Protection from plants and vermin	the state of	N/A
Y.5.5	Protection from excessive dust	Ex Will OUTE MILE AND	N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment	WILL MULL MULL MULL	N/A
Y.5.5.3	IP6X equipment	1 1 1 1	N/A

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		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Y.6	Mechanical strength of enclosures	N/A
Y.6.1	General	N/A
Y.6.2	Impact test:	N/A

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TEK MITE	WILL MULLENNIE	IEC62368_1C - ATTACH	IMENT	SE OLIV MIT
Clause	Requirement – Test	THE LIER WITH WALL	Result – Remark	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to...... EN IEC 62368-1:2020+A11:2020

Attachment Form No.....: EU_GD_IEC62368_1C

Attachment Originator.....: UL(Demko)

Master Attachment..... 2020-03-10

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	CENELEC COMMON MODIFICATIONS (EN)	12 E 14	
ek waitek	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	ek — wair	
dt.	Add the following annexes:	100	
	Annex ZA (normative)Normative references to international publications with their corresponding European publications		
	Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations		
	Annex ZD (informative)IEC and CENELEC code designations for flexible cords		
1	Modification to Clause 3 .		
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:		
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	N/A	

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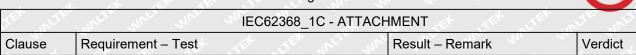


Clause	Requirement – Test	Result – Remark	Verdic
11150	With the Mr. Mr. And	the set of the	TOTE WAS
3.3.19.3	sound exposure, E	Mur Mur Mr.	N/A
	A wainhtad accord processes (p) any and and	LET TEX TEX	CLIEF MITE
	A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>	mer mer mer 1	11 20
	Note 1 to entry: The SI unit is Pa ² s.	at at tet .	TEN LITER.
	T	File Mury Aug My	2, 7
	$E = \int p(t)^2 \mathrm{d}t$	e of ot s	t the
	$L = \int p(t) dt$	" WILL MULL MULL	21/2 21/
	0	A 4 4 4	- A
3.3.19.4	sound exposure level, SEL	WALLE WALL WALL	N/A
	logarithmic measure of sound exposure relative to	L A A	Let Set
	a reference value, <i>E</i> ₀ , typically the 1 kHz	ALTER WALTE WALL W	ve an
	threshold of hearing in humans.	1 1	et et
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	THE WITE WALLE WAL	in we w
	TEX LIEX SLIFE WHILE WHILE WAY	4	- 12
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	A STEE WITE MUTTE	any any
	(E_0) dB	70, 20	d 10
	the sure of the test that	alier alier antie.	WILL WILL
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	W. W. S.	TEX TEX
3.3.19.5	digital signal level relative to full scale, dBFS	a lane m	N/A
			Et STEP O
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-	the write white with	21/2 22
	Hz sine wave whose undithered positive peak	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TER LI
	value is positive digital full scale, leaving the code	WHITE WALL WALL	mer m
	corresponding to negative digital full scale unused	a state	THE SEX
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the	CLIEB WILLE WILL V	her over
	level of signals with a crest factor lower than that of a sine wave	, <u>, , , , , , , , , , , , , , , , , , </u>	et et
in m	may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	THE STIP WITH MY	1 4 1 4
2	Modification to Clause 10		_
10.6	Safeguards against acoustic energy sources		N/A
	Replace 10.6 of IEC 62368-1 with the following:	, , , , , , , , , , , , , , , , , , ,	J 3
10.6.1.1	Introduction	MITE WALTE WALTE	N/A
	Social straint mile and and	The state of	LET LET
	Safeguard requirements for protection against long-term exposure to excessive sound pressure	LITER WITE WHITE W	in and
	levels from personal music players closely coupled	, 2, , ,	et et
	to the ear are specified below. Requirements	Ex STER WITE NOT	in in
	for earphones and headphones intended for use with personal music players are also covered.	211, 21, 2	
	A personal music player is a portable equipment	- THE STEE STEE	WILL WILL
	intended for use by an ordinary person , that:	14, 14, 14,	



	IEC62368_1C - ATTACH	HMENT	
Clause	Requirement – Test	Result – Remark	Verdict
		1 24 3th 3th	COLLEGE STORY
	audiovisual content / material; and – uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and	WILL MULTER WHITER	unliek whitek
	 has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). 	LIEK WILLEK WILLEK WI	THE WITH W
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	Murit mury mur	VIA VII
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	white white whi	MUL MUL
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	ALTER WALTE WALL W	er ter
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore,	TER MULTER MULTER MUL	
	manufacturers are encouraged to implement 10.6.5 as soon as possible.	White White White	MUT MUT
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video	MULTER MULTER MULTER	MULIE MULIE
	mode only. The requirements do not apply to: – professional equipment;	the multiple of	LIER WALTER V
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	E WALTER WALTER WALE	
	hearing aid equipment and other devices for assistive listening;	MUT AUT AU	TEX STEEL
	 the following type of analogue personal music players: 	WILL MULL MULL A	in the
	long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and	TER MUTER MUTER AN	ite wait w
	cassette player/recorder;	* ONLIER WHITE WHITE	MULLER MILL
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	MULTER MULTER MULTER	WALTER WALTER
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	THE MILIER WHITEK W	LIER MITER
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	e much much much	- whit! - whit! - whit!
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods	The the the	TEK STEK

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+		
area.	and measurement distances apply	The state of the s
10.6.1.2	and measurement distances apply. Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	N/A
LIFEK JANLI EK WALIEK WALIEK WALIEK WA	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). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	EX SUITEX OF
10.6.2	Classification of devices without the capacity to estimate sound dose	N/A
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output $L_{Aeq,T}$, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term $L_{Aeq,T}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may	MILIER WALTER MILIER WALTER MARKET WALTER MARKET WALTER MARKET WALTER MARKET WALTER MARKET WALTER MARKET WALTER
WALTER WALTER	be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> _{Aeq,7}) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	et white and
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as	N/A



in the	IEC62368_1C - ATTACH	HMENT	The street of th
Clause	Requirement – Test	Result – Remark	Verdict
WALTER WALTER	setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. – The RS1 limits will be updated for all devices as per 10.6.3.2.	White	White white
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the LAeq, τ acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	netek unetek une	N/A
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Miter Whiter Whiter o	N/A
0.6.3	Classification of devices (new)	A A	N/A
0.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	Whitek whitek whitek	N/A
0.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening	Tet Tet Ures	N/A

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	IEC62368_1C - ATTACH	HMENT	
Clause	Requirement – Test	Result – Remark	Verdict
WALTER WALTER	device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	while	White
10.6.3.3	RS2 limits (new) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	ALTER WHITER WHI	THE N/A THE WINTER THE WINTE
10.6.4	Requirements for maximum sound exposure	mer me m	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	TEX WHITE WHITE WHITE WHITE	N/A
10.6.4.2	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except	NITER WALTER WALTER WALTER	N/A

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	IEC62368_1C - ATTACH		20, 01,
Clause	Requirement – Test	Result – Remark	Verdict
1000		t at all of	THE STATE
	that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the	were were me	20, 2
	instruction manual.	4 4	LET LET
	Alternatively, the instructional safeguard may be	THE LITTER SLITE	men with
	given through the equipment display during use.	The The In .	
	given unough the equipment display during use.	1 4 4	LET LET
	The elements of the instructional safeguard shall	LIEB NITE MILE NO	in the
	be as follows:	70 20 2	
		at the title of	
	– element 1a: the symbol , IEC 60417-6044	The walk was	2112 211
	(2011-01)	700	21- 20
	– element 2: "High sound pressure" or equivalent	LEK TEK JEST	Will Will
	wording	with white white	21, 22.
	element 3: "Hearing damage risk" or equivalent		et let
	wording	TER STEE STEE	MILL WILL
	- element 4: "Do not listen at high volume levels for	V. 24. 24. 25	
	long periods." or equivalent wording	a at at	CEL CEL
	The state of	THE OLIVE WITH MAIL	in m
	An equipment safeguard shall prevent exposure	10, 10, 1	
	of an ordinary person to an RS2 source without	t at at all	
	intentional physical action from the ordinary	write with winter	24, 24
	person and shall automatically return to an output	10. 2	A 18
	level not exceeding what is specified for an RS1	LEK THE THE	CLIFE WILL
	source when the power is switched off.	were were were	10, 2,
	The equipment shall provide a means to actively		LEK LEK
	inform the user of the increased sound level when	THE MAN AND AND AND	in the same
	the equipment is operated with an output	7 750 20	
	exceeding RS1. Any means used shall be		
	acknowledged by the user before activating a	EL CLIE WILL WILL	in in
	mode of operation which allows for an output	20, 20	
	exceeding RS1. The acknowledgement does not	At the star	LIE WIT
	need to be repeated more than once every 20 h of	anti met me	211.
	cumulative listening time.	7	et et
	NOTE 2 Examples of means include visual or audible signals.	THE THE LITE	THE WALL
	Action from the user is always needed.	We are a	
	the title with the many	at at at	CENT CIENT
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal	THE OUTE WITH WAY	11/2 11
	music player has been switched off.		
		t at all the	
	A skilled person shall not be unintentionally exposed to RS3.	are are are	111 21.
0.6.5	Requirements for dose-based systems	4 1	N/A
0.6.5.1		Intitle Mill Mill	40
0.0.5.1	General requirements	20 2	N/A
	The Man of the Ch	TER TER STEE	TILL MILL
	Personal music players shall give the warnings as	Vr. 24, 24, 24	
	provided below when tested according to EN	1 1	Et LET
	50332-3, using the limits from this clause.	Et SLIE CLIV ON	" " "
	The manufacturer may offer entional cottings to	211, 20, 20	
	The manufacturer may offer optional settings to allow the users to modify when and how they wish	and the set	The sail
	to receive the notifications and warnings to	WILL MILL WILL	me me
	promote a better user experience without defeating	14, 12, 2	4
	the safeguards. This allows the users to be		10 10



ري المري	IEC62368_1C - ATTACH	HMENT	Will W
Clause	Requirement – Test	Result – Remark	Verdict
antiek ant	informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	Antick whilek whilek	White white
ex whitex whitex whitex	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	A Whitek whitek whitek whitek whitek	AUTER WALTER
10.6.5.2	Dose-based warning and requirements	of set set s	N/A
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.	whilet whilet while	Junited Whited
LIE WA	The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss.	White on	etter gritt 4
10.6.5.3	Exposure-based requirements	E WITE WALL WALL	N/A
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.	NURSEE WALTER WALTER	MULTER MINITER
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.	tek uniter unite uni	ani et an
	The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	MALTEX MALTEX MALTEX	WALTER WALTER
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided	REFER MILIER WHITER WHI	iller mile v
	with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	Whitek whitek whitek	unitr's unitr

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TEN INTE	MULL MULL MULL M	IEC62368_1C - ATTACHMENT	EL WITE WALTE
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Trequirement – Test	rtesuit – Itemark	Verdict
	NOTE In case the source is known not to be music (or test	the set set	THE WALLY
20.	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	Mr. Mr. Mr.	20.
10.6.6	Requirements for listening devices (headphones	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	ing my my m	N/A
	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.	A Whitek	white whitek
ier white	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	TER WILLER WILLER WITH	White My
10.6.6.2	Corded listening devices with digital input	t milet anilet aniles	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	whitek whitek whitek whi	ALTER WALTER
0.6.6.3	Cordless listening devices	A A A	N/A
UNLIEK WALTER WALTER WALTER	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the ∠Aeq, 7 acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	Junited united united a	AND TEX WITEX
10.6.6.4	Measurement method Measurements shall be made in accordance with	et united white white	N/A
The .	EN 50332-2 as applicable.	ally will will	ne me
3	Modification to the whole document		

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TER MITE	WILL WILL WILL	IEC62368_1C - ATTACH	IMENT	ER WITE WITE
Clause	Requirement – Test	TEX TEX WITH WAL	Result – Remark	Verdict

	2011/65/EU.			A 160			3100
	electronic equipi	wing note: se of certain subst nent is restricted v					P
	No. 20		-1112 ·	n 2			
- 46	Modification	to Clause 4				N- 10"	A.C.
	Y.4.5	Note					
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	TEX.
	N.I.		Table 39	and 5		*	NALT
	8.5.4.2.3	Note	10.2.1	Note 3 and 4	10.5.3	Note 2	211
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	*
	*			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8	and 4	TEK
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.6.4.2.1	Note 2 and 3	MILTE
	Table 13 5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	21/2
	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	ب ان ا
	-21		Table 12				. E.K 191
	5.2.2.2	Note	5.4.2.3.2.2	Note c	5.4.2.3.2.4	Note 1 and 3	
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	ZEX.
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	WILL

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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
4.Z1	Add the following new subclause after 4.9:	White Will white	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; 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. 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	Tek whilek whilek while whilek whilek whilek whilek whilek	White
: Wer.	providing protection in accordance with the rating of the wall socket outlet. Modification to 5.4.2.3.2.4	Er intie mit wat	nu nu
6			
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	whitek mulitek mulitek	N/A
7	Modification to 10.2.1		
10.2.1	Add the following to c) and d) in table 39:	Mr. Mr. Mr.	N/A

8

For additional requirements, see 10.5.1.

Modification to 10.5.1

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fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the

For RS1, the dose-rate shall not exceed 1 μ Sv/h

NOTE Z2 These values appear in Directive 96/29/Euratom of 13

NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.

taking account of the background level.

measurement is made.

Modification to G.7.1

Add the following note:

Modification to Bibliography

May 1996.

9

G.7.1

10

	IEC62368_1C - ATTAC	HMENT	
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph:	MULLER MALIER MALES	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	MULTER WALTER WALTER	united white
	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 pre-sets 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.	CLEK WHITEK WHITEK WHITEK	Antie Antie
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	OUTER MUTER MUTER A	ALTE MALTE.
	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.	otek writek writek write	SEE ON THE ON
	Moreover, the measurement shall be made under	A St St	TEK TEK

P

Reference No.: WTX23X05117123S Page 48 of 77



LIER WIFE		IEC62368_1C - ATTACH	MENT	TER MILE WILL
Clause	Requirement – Test	TEX STER MATE WAS	Result – Remark	Verdict

"In "	Add the following no	otes for the standards indicated:	N/A	
	LER LIER STEEL		LET LET	
	IEC 60130-9	NOTE Harmonized as EN 60130-9.	The A	
	IEC 60269-2	NOTE Harmonized as HD 60269-2.		
	IEC 60309-1	NOTE Harmonized as EN 60309-1.	Life W	
	IEC 60364	NOTE some parts harmonized in HD 384/HD 60364 series.	21, 21,	
	IEC 60601-2-4	NOTE Harmonized as EN 60601-2-4.	x x	
	IEC 60664-5	NOTE Harmonized as EN 60664-5.	all the agent	
	IEC 61032:1997	NOTE Harmonized as EN 61032:1998 (not modified).	21, 20,	
	IEC 61508-1	NOTE Harmonized as EN 61508-1.	11- 12-	
	IEC 61558-2-1	NOTE Harmonized as EN 61558-2-1.	LITE WALL	
	IEC 61558-2-4	NOTE Harmonized as EN 61558-2-4.		
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1.		the set	
			ant a	
	IEC 61643-21	NOTE Harmonized as EN 61643-21.		
	IEC 61643-311	NOTE Harmonized as EN 61643-311.	- LET 3	
	IEC 61643-321	NOTE Harmonized as EN 61643-321.	are are	
	IEC 61643-331	NOTE Harmonized as EN 61643-331.		
	125 010 10 001	NOTE Hamilianzed as EN STOTO COT.	JEE STE	
11	ADDITION OF ANNEXES		_	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)			
	Class I pluggable e connection to other network shall, if safe reliable earthing or if are connected betwee accessible parts, had equipment shall be esocket-outlet. The marking text in the beas follows: In Denmark: "Appar stikkontakt med jord stikproppens jord." In Finland: "Laite or varustettuun pistora."	ety relies on connection to f surge suppressors een the network terminals and eave a marking stating that the connected to an earthed mains the applicable countries shall ratets stikprop skal tilsluttes en som giver forbindelse til n liitettävä suojakoskettimilla siaan"	ALL WALLEST AND THE AN	
	stikkontakt"	tet må tilkoples jordet iten skall anslutas till jordat	EK MITEK W	

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	_
9	
ø	

Clause	Requirement – Test	Result – Remark	Verdict
· The	nit with the the the	the set of	CALLES ALLE
4.7.3	United Kingdom	Murr Mur Mur	N/A
	the oute only and while the	at the left	TEX TEX
	To the end of the subclause the following is added:	intile with with a	10,
	The torque test is performed using a socket-outlet		CEX CEX
	complying with BS 1363, and the plug part shall be	LIEF WILL WILL MA	2/2 2
	assessed to the relevant clauses of BS 1363. Also	20, 2	L 2+ .
	see Annex G.4.2 of this annex	A THE THE WAY	N/A
5.2.2.2	Denmark	The The The	N/A
	After the 2nd pergraph add the fallowing:	LEK SEK SEK	WITE WILL
	After the 2nd paragraph add the following:	They were the	n $_{2}$
	A warning (marking safeguard) for high touch	A A A	TER LIER
	current is required if the touch current exceeds the	WILL MULL MULL MI	-10
F 4 4 4 4 4	limits of 3,5 mA a.c. or 10 mA d.c.		A 1/0
5.4.11.1 and	Finland and Sweden	TER WILL WILL WITE WITE	N/A
Annex G	To the and of the south desired the fellowing is added.	20, 20,	
	To the end of the subclause the following is added:	t tet tet niter	WILL WILL
	For separation of the telecommunication network	Mr. Mr. M.	" .
	from earth the following is applicable:	LEK LEK LIEK	ALTER MITTER
	If this insulation is solid, including insulation	With Aur Aur A	11. 21.
	forming part of a component, it shall at least	and the same	TEX TEX
	consist of either	The sure of the su	200
	two layers of thin sheet material, each of which shell need the electric strength test below, or		+ 1+
	shall pass the electric strength test below, or	E LIE GLIN MIT	an's an
	one layer having a distance through insulation of	24 24 24	
	at least 0,4 mm, which shall pass the electric	THE THE LITTER	WILL WILL
	strength test below.	Mer Mer Mr	70.
	If this insulation forms part of a semiconductor	at at let	THE STEET
	component (e.g. an optocoupler), there is no	WILL MILL MULL M	$c = c_n$
	distance through insulation requirement for the insulation consisting of an insulating compound	1 1	Et LEX
	completely filling the casing, so that clearances	TER OLIER WILL WAS	11 21 21
	and creepage distances do not exist, if the	10 20 2	
	component passes the electric strength test in	t tet tet nie	intro with
	accordance with the compliance clause below and in addition	me me m	2
	and desired the second	at let let	LIE CLIE
	passes the tests and inspection criteria of 5.4.8	with mir mer.	11,
	with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be	a at at	TEX JEX
	performed using 1,5 kV),	LITER OF THE WALL WA	in the s
	THE THE STEE WALL WALL AND A	4	* *
	and	ER STER STEEL WIT	"In In
	is subject to routine testing for electric strength	21/2 211. 20.	
	during manufacturing, using a test voltage of	- LEK LEK LIEK	CLIPS WITH
	1,5 kV.	MULL MULL MULL	20, 20,
			1

IEC62368_1C - ATTACHMENT



	IEC62368_1C - ATTACH	HMENT	
Clause	Requirement – Test	Result – Remark	Verdict
White w	capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: • the insulation requirements are satisfied by	JUNITER WHITER WHITER	WALTER WALTER
	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;	MULTER WILLER WILLER	white white
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	WILER MUTER MUTER M	ALTEK MILIER O
ir _{wh} i	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.	TEX MULTER MULTER MULT	ik w
5.5.2.1	Norway	WHITER WHITE WHITE	N/A
	After the 3rd paragraph the following is added:	SLIET WIFE WIFET	NALTEK WALTER
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	white we	riet wriet w
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:	with my m	. Let Still
WALTER W	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	White white white	MILL MILLER
5.6.1	Denmark	TEX WILEY WILEY	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket- outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	AND TEX MILIER MILIER	WILLER WILLER
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	in me me m	et let .

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	74.		. (2)
2		V	
	6		
			4
			90

01	IEC62368_1C - ATTAC		1111
Clause	Requirement – Test	Result – Remark	Verdict
5.6.4.2.1	Ireland and United Kingdom	MUTTER MITTER	N/A
unlier w	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	UNLIEK WILLER WILLER	UNLIER WHITE
5.6.4.2.1	France	EX WALTER WALTER WALT	N/A
	After the indent for pluggable equipment type A , the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	Whitek whitek whitek	MULTER MILITER
5.6.5.1	To the second paragraph the following is added:	at the late	N/A
AN TIEK	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	t unit unit unit	unit the mit
5.6.8	Norway	STER STER MATTER	N/A
	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	te milit milit mi	EX MULTER OF
5.7.6	Denmark	TEX LIEX NITER	N/A
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Whitek whitek whitek w	NIEK WAITEK
5.7.6.2	Denmark	10, 10, 10,	N/A
whitek o	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	Whitek multer multer	White whites
5.7.7.1	Norway and Sweden	TER LIER NITER	N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	THE STEEL WITH WITH	EL WILLER



L. Will	IEC62368_1C - ATTACI	HMENT	WITT ST
Clause	Requirement – Test	Result – Remark	Verdict
WILL W	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.	UNLIER WALTER WALTER	Whitek Whitek
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	THE MUTTER MUTTER MUTTER	it whilet w
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WALTER WALTER WALTER	JUNITE WALTE
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	THE WALTER WALTER WALTER	MULTER M
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	united whitel whitely	MILIER MILIER
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	To me on	et let
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	Multer Multer Multer	White white
whitek whitek whitek whitek	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	of the tip will	yunties white
.5.4.2.3	United Kingdom	PITEL MUTE AND A	N/A
	Add the following after the 2 nd dash bullet in 3 rd paragraph:	Ex Writer Writer Wri	er un iter un
	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	WALTER WALTER WALTER	MULT MULL

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	IEC6236	8_1C - ATTACHMENT	
Clause	Requirement – Test	Result – Remark	Verdict

Clause	rtequirement – rest	Result – Remark	Verdict
B.3.1 and B.4	Ireland and United Kingdom	While while while.	N/A
white wh	The following is applicable:	NUTER UNITER MILIER W	UTEK WALTER V
	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	TER WATER WATER WATER	et whitet white white white white white whitet
G.4.2	Denmark	Wiley Muric Muric My	Р
	To the end of the subclause the following is added:	TEX MATER MATER MATE	MUNICIPE WAL
	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.	Whitet whitet whites	MUTER MUTER
	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.	antiek antiek antie antiek antiek	TEK WITEK WA
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	whitek whitek whitek	untiek whitek
	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.	Tex unifex whitek white	et whitek whi
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	MULTER WILLER	NITE WAITER
	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	RITER WHITER WHITER WHI	TEK WILTER WA
	Justification: Heavy Current Regulations, Section 6c	- Liet with the	MALIFE MALIER

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IEC62368_1C - AT	TACHMENT	Et JEt 2	LIER WILL MILL
	Pocult	Domark	Vordict

Clause	Requirement – Test	Result – Remark	Verdict
G.4.2	United Kingdom	White white we	Р
	To the end of the subclause the following is added:	THE MILES WALFEST WALL	WALTER.
LIEK WAL	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.		Meires un perest mer
G.7.1	United Kingdom	MUTTE AND MUT AND	Р
	To the first paragraph the following is added:	NITER ANTER MATER WATE	MULTE
	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.	LEK WALTER WALTER WALTER	an ciet and
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Marie mir	OWER AN
G.7.1	Ireland	E WALTE WALL WALLE V	n P
	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	ALTER WHITER WHITER WHITER	TE WALTER
G.7.2	which is equivalent to the relevant Irish Standard Ireland and United Kingdom	* OLIE OLIER MILES	N/A
	To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ²	antifek whitek anifek whi	TEX WILLER
	is allowed for equipment which is rated over 10 A and up to and including 13 A.	NIFEK WALTER WALTER WALTER	SALTIE VI
ZC <	ANNEX ZC, NATIONAL DEVIATIONS (EN)	a start	26t _ 3

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1 (010101100 1	10 11 17(20)(00) 117 1200	1 ago 00 01 11		
TER INLIE	MULL MULL MULL	IEC62368_1C - ATTACH	IMENT	WITE WITE
Clause	Requirement – Test	TEX STER WITH WA	Result – Remark	Verdict

10.5.2	Germany	N/A
	The following requirement applies:	WHITE WHITE WHITE
	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.	UNLIEK WALTER WALER
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Whitek Whitek Whitek
iteit _W ni	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	NUTER OF THE A
ZD	IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE COR	RDS (EN)

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IEC62368_1C - ATTACHMENT						
Clause	Requirement – Test	THE THE WITH WITH	Result – Remark	Verdict		

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	1 .,	6
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-



4.1.2 T	TABLE: Critical co	nponents inform	ation		A P
Object / part N	No. Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Plastic enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	A 34	V-0, 60°C, min. 1.0mm thickness	UL 94	UL E162823
Li-ion Battery	VOGTEC TECHNOLOGY CO.,LTD	103450P	3.7V, 2000mAh IEC 62133-2:2017		Report No.: WTX19X1209 2212B
Speaker	Various	Various	8Ω, 0.8W	EN IEC 62368- 1:2020+A11:2020	Test with equipment
Motor	Shenzhen Zhongda Motor Co. LTD	D169IW/T2	3.0Vdc, 90mA EN IEC 62368- max. 1:2020+A11:202		Test with equipment
LCD panel	RUI XIAN TECHNOLOGY	RX-24B9001- ' A1	2.4' TFT, 2.8Vdc	EN IEC 62368- 1:2020+A11:2020	Test with equipment
PCB	SHENZHEN HOPESEARCH PCB MANUFACTUF ING CO LTD	70.	130°C, V-0	UL 796	UL E351308
Alt.	Various	Various	130°C, V-0	UL 796	UL
Power Adapte	er Shenzhen changtai yuanhang technology CO LTD	CT-083	Input: 110- 240Vac, 50/60Hz, 0.2A Output: 5.0V===, 1000mA, 5W	IEC 62368-1: 2018 EN 62368-1: 2014+A11:2017	Report No.: BKC211681L S

Supplementary information:

²⁾ Description line content is optional. Main line description needs to clearly detail the component used for testing.

5.2	TABLE: Classificati	on of electrical er	ergy sourc	es	20, 1		P
Supply Voltage	Location (e.g. Test conditions circuit			Param	eters		ES Class
voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	
at at	TEX SEX SITE	Normal	5Vdc	-20	7	7.	ES1
5Vd.c.	Input and internal circuit	Abnormal – See appended table B.3	MY LEK MAY	SER ANTE	WUTE.	anit un	
	MUNITER MULTER	Single fault – See appended table B.4	itek mite ik ek	MUTT.	(10 ^L - 10	ek - un	
. L	Let Let C	Normal	5Vdc	ar - ar	-7,	<u>-</u>	ES1
5Vd.c.	Charging base output port	Abnormal – See appended table B.3	Juni <u>ir</u>	itek anti	MUTE MUTE	WUTTE A	
	Separation and the	Single fault – See appended table B.4	NITER WINIT	NATE A	WINLY .	ITEK JUD TEK JUD	- WATER W

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-2039.



	, , , , , , , , , , , , , , , , , , ,	Normal	4.195V	Life - Mil	The state of the s	1/1- 1	ES1
4.2Vd.c.	Battery pin + to -	Abnormal – See appended table B.3	NITEL WAL	ek <u>un</u> itek	WAITEK V	INLTER WIN	
	The street in	Single fault – See appended table B.4	ek odnitek	WUTER W	NLTER ON	JEK WALTE WALTE	

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8 TABLE: Working volta	ge measureme	nt the	LIER WILLE	VIII WHE	N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- NITER WILL	- mr m	- 70, -20,	- `	٠,
Supplementary information:	-Z ₁ , *F	LET SET	LIE SITE	WILL WA	in

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics							
Method		:	et et -				
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)				
(P _ CP _ N _ N _ N _ N _ N _ N _ N _ N _ N _	- 1 11 1		- 16t - 17th S				
Supplementary information:	The street street	NV NV	m. m. m				

5.4.1.10.3	.3 TABLE: Ball pressure test of thermoplastics						
Allowed imp	ression diameter	(mm)	:	≤ 2 m	m (the state	LIE!	_
Object/Part No./Material		Manufacturer/trademark	Thickness (mm)		Test temperature (°C)	Impi diame	ression ter (mm)
The M		- pt the state	INITE	NITE	Mir Aur A	n 1	\bar{x}
Supplement	ary information:	West Alexander			,t ,d+	(E) .	The s

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
John John John		71 - WE	400	41.	, <u>,</u>		t - t	# .

Supplementary information:

- 1) Only for frequency above 30 kHz
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)
- 3) For clearance and creepage did not describe above are far larger than limit above.

The secondary of T1 used triple insulated wire, core as primary of T1.

5.4.4.2	TABLE: Minimum distance through insulation	N/A

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Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation	Required DTI (mm)	Measured DTI (mm)
- mir mr mr		t lift out the	OLITE BOLLS	mrm.
Supplementary information:	MALLE WALL WALL	20, 20,	at at	LET LET

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz						
Insulation material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
- Wer are	711, -1, -2	-	18th - 18th	JE NI	11-11-1	Very Aug

5.4.9	TABLE: Electric strength t	ests	* *	78*	N/A
Test volta	ge applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)		akdown es / No
, ,		et nu - vince d	v. 24 - 24		+
Suppleme	entary information:				

5.5.2.2 TAI	BLE: Stored discharge o	on capacitors			N/A
Location	Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
Car Car		-		A - 114	56th- 55th
Supplementary i	nformation:	- JER JER N	The Willy	ne me	21/2 24
X-capacitors ins	talled for testing: C2=0.22	μF, C3=0.47μF, CX2=	:0.1µF		
	stor rating: R18=R24=R44	4=R45=750KΩ			
☐ ICX:					
1)Normal operat	ing condition (e.g., norma	l operation, or open fu	se), SC= shor	t circuit, OC= op	oen circuit

5.6.6	TABLE: Resistance of protective conductors and terminations						
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
	14 - 14 - 18th	CIEN MACIE WILL	Mur Mu	znzn.	* - A		
Suppleme	ntary information:	ال بار	- Let Let	TER STER	ALTE WALTER		

5.7.4	TABL	E: Unearthed accessible parts						
Location		Operating and fault conditions Supply Voltage (\square)		71/2 - 71/2 E	ES class			
			Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	t mit	
Output term	ninals	Normal	-,4	d -d .	CER STEEL SI	ET JALI	White	
TEX	ITEK I	Abnormal – see table B.3, B.4 for	in mile mi	''nu'' 'nu	- 12 - 18 - 12 - 18		CITE!	

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1/1	detail	t et	LIER OUTE	WILL WILL M	S 14	20
A MUTIEK M	Single fault – see table B.3, B.4 for detail	JIAL I	Niek miliek w	uiek uniek uni	EK WALT	WULLEY.
Supplementa	ary information:	2/15		et 18t 18	- CLIER	IN LIFE OF
Abbreviation	: SC= short circuit; OC= ope	n circuit				

5.7.5	TABLE: Earthed access	sible conductive part			
Supply vo	oltage (V):	W	(- <u>18</u> 18	CLIEB IN	_
Phase(s)		[] Single Phase; [] Three	Phase: [] Delta [] Wye	
Power Distribution System:		□ TN □ TT		WITE WITE	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
<u> </u>	a st st st	ITEH INLIE WALL W	5 2th 24		7
Suppleme	entary Information:	Mr. St.	et 18t 5	Et STEEL O	LTE NA

5.8	TABLE:	TABLE: Backfeed safeguard in battery backed up supplies						
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
70.		- , ,t- ,	aft aft with	1675	y my	n -n		
Suppleme	ntary inforr	nation:	1 2415		d	JEK JEK	WITE OF	
Abbreviati	on: SC= sh	ort circuit, O	C= open circuit					

6.2.2 T	ABLE: Power source	circuit classifica	tions	our in	10 1	Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
our our	Normal condition		J 2 J	E. Wille	meir - mer	Mr. M
Power Adapter outpu	Abnormal – see table B.3, B.4 for detail	Whi - Wh	NIEK WALE	Whitek W	TEX WHITEK	PS3 (declare)
er viniter vii	Single fault – see table B.3, B.4 for detail	ier muter an	TEX TIEX	unite <mark>r</mark> whit	West in	(deciare)
white whi	Normal condition	4.50	1.13	5.12	>3	1000
Charging base output port	Abnormal – see table B.3, B.4 for detail	TEX STEX	MITER MIT	ik muliek	NUTER WALTER	PS1
output port	Single fault – see table B.3, B.4 for detail	Wiley Writer M	LIEK WALTER	white wh	TEK TITEK	
Battery Pack	Normal condition	3.77	2.98	11.26	>3	MULL
Output	Abnormal – see table B.3, B.4 for	er mr	71/2 7	it it	JET JE	PS1



70, 2	detail	at at	CIET SOLVE	anti an	in 1	10 20
	Single fault – see table B.3, B.4 for detail	TEK STEK SINI	ek <u>u</u> nitek unitek u	ALTEK VINLTE	WINLTEL WIN	TEX WALTER
WITE WITE	Normal condition	2.21	16.83	37.24	>5	antite of
Battery cell Output	Abnormal – see table B.3, B.4 for detail	White white	TEX SITE	<u>ull</u> Lucifek unitek	LIEK MALTEK	PS2
EK WHITEK W	Single fault – see table B.3, B.4 for detail	Murit Anti A	TEK MUTEK	united whi	WULLER W	PLIER MALTE

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

1)Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1 TABLE: D	etermination of Arcing PIS	7. T	et let let	N/A
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
Primary circuits	- TE TEL STEEL SAN	LIEK WALTER WALT	MULL -MULL A	Yes (declaration)
Supplementary information	tion:	et let iset	alter alter and	The WALLE O

6.2.3.2	TABLE: Deter	mination of resistive PIS	N/A	
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All internal component		NI EE WALTER WALL WALL WALL	it it it	Yes (declaration)
300	tary information:	uit; OC= open circuit	Mur. Mur. Mu. A	

8.5.5 TABLE: High	pressure lamp	e de de	TEK STEK SIT	N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- John John John	ati de milier mais	n - m m		Jr - Jr
Supplementary information:				

8.5.5	TABLE: High pro	essure lamp	LIER SLIER WITER OF	THE MUTE MU	N/A
Lamp manu	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
E NITE	WILL MULL M	- 10 1		Jet Jet	UNLIFE WILLE
Supplemen	tary information:				



9.6	TABLE	E: Tempera	iture measi	urements	for wireles	ss power t	ransmitter	s w	N/A
Supply vo	Itage (V):	TEK CLIFER	WILLIAM . WI	Tra an		20.	·	× 10	-
Max. trans	smit power	of transmitt	ter (W):	ek de	k alter	NICTE - N	ALTE WALT	Mur	11/2 1
Foreign objects				with receiver and direct contact		with receiver and at distance of 2 mm		with receiver and at distance of 5 mm	
	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
	1		(JE .	-0/2	and and	1/1, - 1		,(

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	erature mea	surem	ents	WALTER *	WILLER	WILLER LEK	Whit TEX	WILL	P N
Supply voltag	e (V)	nite wit	ar Cit	Chargi mode	ng	Dischar mode	ging	in's	Zur .	N - TE
Ambient temp	perature during	test T _{amb} (°C	C):	٠ ,	iek "L	See b	elow	, ,	100 21	- n
Maximum me	asured tempera	ature <i>T</i> of pa	art/at:	T (°C)						Allowed T _{max} (°C)
Plastic enclos	sure inside of ch	narge base	100	44.4	44.8		1-1	7-,	t 64	77
Plastic enclos	sure outside of	charge base)	43.2	43.6		<	01.77	21/2	JF 77 JF
PCB of charg	e base		1	32.3	32.7			-	74	130
PCB near US	B input	× .6	+	45.4	45.8	1. JE . W	ω <u>-</u> υ	У -	2 L 1	130
PCB near U2	001	VII MULL	20,	48.3	48.7	41.5	42.2	e*	(d) (130
PCB near U4	102	at alt	_(j^	48.8	49.2	41.6	42.3	01	-24	130
PCB near U1	001	and	10,	45.3	45.7	38.7	39.4		e - Je	130
Speaker		- LEX	J. T. E.	47.8	48.2	39.0	39.7	2/12	100	Ref.
Battery body	WILL WILL	21/2 1	20	42.1	42.5	42.2	42.9		- L-1	45/60
Plastic enclos	sure inside near	battery	CERT (40.7	41.1	36.2	36.9		-z, -	Ref.
Ambient	VILL PARTY	m m		24.6	25.0	24.3	25.0	J. F.	, LT	The Police
Accessible pa	arts	TER TER	نامان	in an	110	r 211	- 40			at at
Plastic enclos	sure outside ne	ar battery		36.2	36.6	35.4	36.1	-10°	J - 7/2	48
Plastic of cha	rging stand	It willet	MILLE	31.5	31.9	33.0	33.7		J A	48
Screen	me m	-70,	+	36.6	37.0	31.8	32.5	11-15	- Walie	48
Button	TEN LIER	NITER W	ru' .	28.0	28.4	27.9	28.6			48
Ambient	n m	2,	d .	24.6	25.0	24.3	25.0	\L	Juli- 1	no -m
Temperature	T of winding:	t ₁ (°C)	R ₁ (Ω	2) t ₂	(°C)	$R_2\left(\Omega\right)$	T (°	-,	Allowed T _{max} (°C)	Insulation class
et e	it Lit (16th 1760	100	1/1/	- 40,	7,11				L -04

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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: As the applicant declares, the operation temperature is 25.0°C.

B.2.5	TAE	BLE: Inpu	it test	CALTER SIL	P				
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	/status
5.0	DC	0.55	1.0	2.75	11/2 11	-20		Charging n	node
4.2	DC	0.89	1.0	3.74	50th 25	et inter	antie an	Dischargin	g mode

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured

Ambient tempera	ature T _{amb} (°C)				: 25°C unl specified	ess otherwise	_
Power source for	EUT: Manufac	turer, mode	el/type, outp	utrating	:		_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	on
Battery (Full battery charger)	Over-charge B- to P- s-c	5.0V	7h white	- Mile Miles	of the state of	Input current: 0.54A normal operation. Battery body: 42.3 Ambient: 24.2 °C No damaged, no ha	°C
Battery (Empty batt ery discharger)	Over- discharge B- to P- s-c	4.2V	7h wh	Z- WA SE WALTE WALTER	- Whitek	Input current: 0.54A normal operation. Battery body: 42.4 °C Ambient: 24.2 °C No damaged, no ha	C
Speaker	S-C	5.0V	10min.	in in the second	TEK WILTE	Input current: 0.48A normal operation. Battery body: 42.4 °C Ambient: 24.2 °C No damaged, no ha	C C
U1	S-C	5.0V	10Min	SLIEN		Unit shut down imm no damage, no haz	
Vibration motor	Lock	4.2V	7h	andrek Viek	in in the state of	Vibration motor shu immediately, Vibration motor: 31 Ambient: 24.2 °C no damage, no haz	.2 °C
Battery pin P- to P+	S-C	4.2V	10Min	,#	- ALTER	Unit shut down imm	



SC= short circuit; OC= open circuit; OL=overload

ification	battery in a re	verse polarity p Voltage (V)	CI	: hargi	ng	_th	Current (A)	<u> </u>	
ification	Non-recharge	Voltage (V)	الماريد المار	hargi	ng		Current (A)		
ification	Non-recharge	Voltage (V)	Marie M				Current (A)		
	Non-recharge	TEK TEEK	Unite M		100				
	Non-recharge		D-4		me m to				
	Non-recharge		Battery	spec	ificat	ion			
	1 von - Conarge			Rec	hargeab	le batteries			
	Discharging	Unintentional	Charg				Discharging	Reverse	
Manufacturer/type		charging current (A)	Voltage ((V)			current (A)	charging current (A)	
Max. current during normal condition		LIEK WALTER	5	MET 6	0.54		0.89	w 0 w	
ng fault	- 10t 1	er ter.	NITCH 5		0.56		0.90	0.00	
SC	Musica Mar	21/2 1			1 1 1 E		t set	LIET RITE	
f M.3.2 aı	re applicable o	nly when above	e appropria	ate da	ata is	not ava	ilable.		
tempera	ture (°C)			:	et.	CENT.	- LIEN SIT	<i>*</i>	
Fault ondition			Temp. (°C)			Voltage (V)	e Obse	ervation	
7-A V	7A	-JEH	(J.C.)	-0.00	-] [- (11	r and	74, 10,	
f	ng fault SC f M.3.2 ar tempera Fault ondition	ng fault GC f M.3.2 are applicable o temperature (°C)	rtype current (Å) ng ng fault f M.3.2 are applicable only when above temperature (°C)	rtype current (A) Voltage (and the current value of the current valu	rtype current (A) Voltage (V) ng 5 ng fault 5 f M.3.2 are applicable only when above appropriate detemperature (°C)	rtype current (A) Voltage (V) Current (A) current	rtype current (Å) Voltage (V) Current (Å) ng	rtype current (Å) Voltage (V) Current (Å) ng 5 0.54 0.89 ng fault 5 0.56 0.90 f M.3.2 are applicable only when above appropriate data is not available. temperature (°C)	

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

M.4.2	TABLE: battery	TABLE: Charging safeguards for equipment containing a secondary lith battery pecified charging voltage (V)							
Maximum	specified c	harging voltag	e (V)		. 11 2 11.	70, 7	_		
Maximum	specified c	harging curren	t (A)		; (*	RITER STRIFE W	_		
Highest s	pecified cha	arging tempera	ture (°C)		20	1 1			
Lowest sp	ecified cha	rging temperat	ure (°C)		4.5° _{16.1} 1.6°	antie motile and			
Battery		Operating	Measurement			Observation	า		
manufactu	irer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)				
Battery	i wh	0	5	0.54	45	The battery operated normally; charging co			

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)	N/A	
-----	---	-----	--

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Output	Condition	U _{oc} (V)	Time (s)	I _{sc}	(A)	S (VA)					
Circuit	Condition			Meas.	Limit	Meas.	Limit				
- 211. 20.	- + +	-et 18th	- NITE N	Lie Will	-ne	in in	- "				
Supplementa	Supplementary Information:										

	Steady force test						
М	aterial	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	
рР	Plastic	See table 4.1.2	EK - IEK	100	ELTE 5 THE	No crack/damage occur	
le P	Plastic	See table 4.1.2	· Lifet (100	5 5	No crack/damage occur	
om P	Plastic	See table 4.1.2	70 _ 50	100	5	No crack/damage occur	
_	pp P	de Plastic	Material (mm) Plastic See table 4.1.2 de Plastic See table 4.1.2 tom Plastic See table	Material (mm) Probe Probe Probe Probe Probe A.1.2 Probe Probe Probe A.1.2 Probe A.1.2 Probe A.1.2 Probe	Material (mm) Probe (N) Probe (N	Material Probe Probe (N) Duration (s) See table 100 5 Thickness (mm) Plastic See table 100 5	

T.6, T.9	TABLE: Impact test					
Location/part		Material	Thickness (mm)	Height (mm)	Observation	
Interior	The Mark	F A- 6	A - A	_d (nite mill while whi	
Supplement	ary information	1	and o	2	a state st	

T.7 TABLE: Drop	test			P		
Location/part	Material	Thickness (mm)	Height (mm)	Observation		
Enclosure top	Plastic	See table 4.1.2	1000	Enclosure remained intact		
Enclosure side	Plastic	See table 4.1.2	1000	Enclosure remained intac		
Enclosure bottom Plastic		See table 4.1.2	1000	Enclosure remained intact		

T.8	TABLE	: Stress relief t	A A P			
Location/Par	t	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure	m	Plastic	See table 4.1.2	70	7	Enclosure remained intact
Supplementa	ary infori	mation:	min min	10 m m	st of	IIIIact



3

Photo Documentation

Model: XT-16W



Photo 1



Photo 2





Photo 3



Photo 4





Photo 5



Photo 6





Photo 7



Photo 8





Photo 9



Photo 10



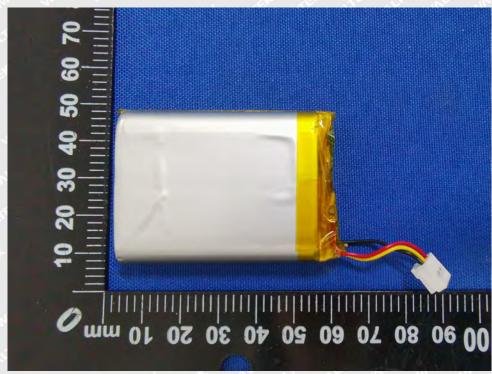


Photo 11

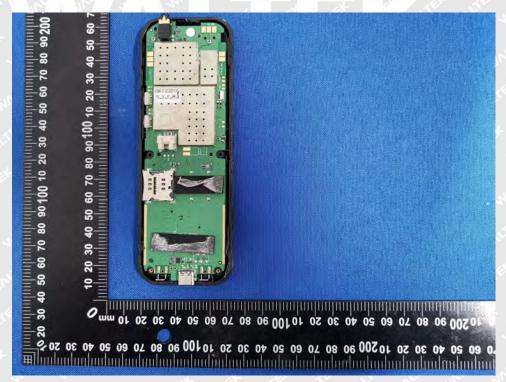


Photo 12



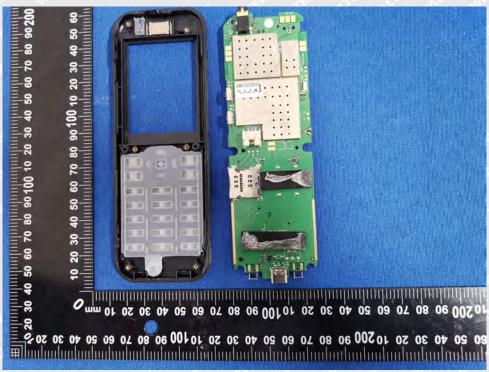


Photo 13

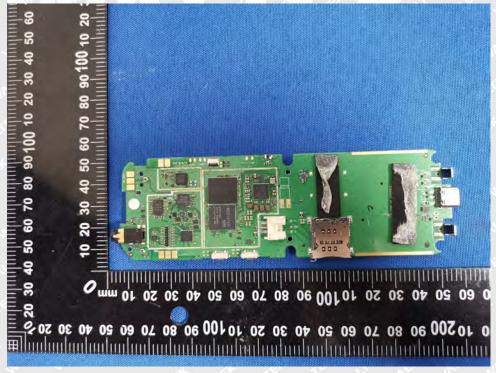


Photo 14



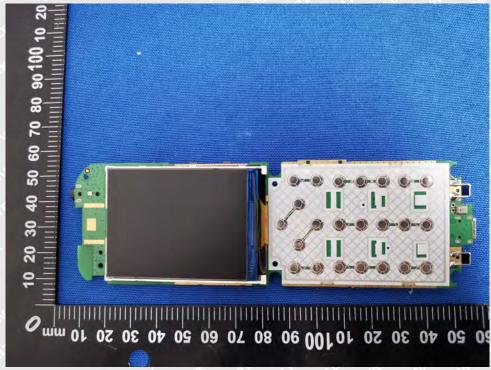


Photo 15



Photo 16

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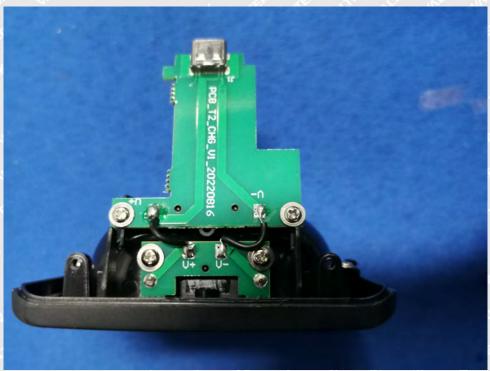


Photo 17

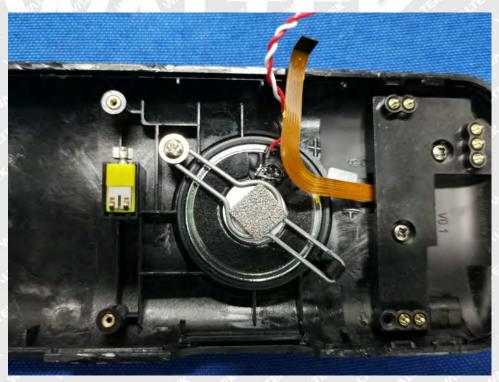


Photo 18



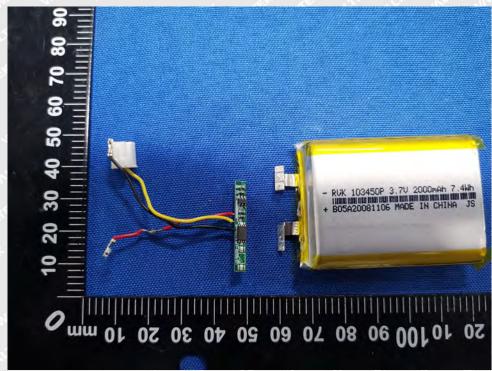


Photo 19

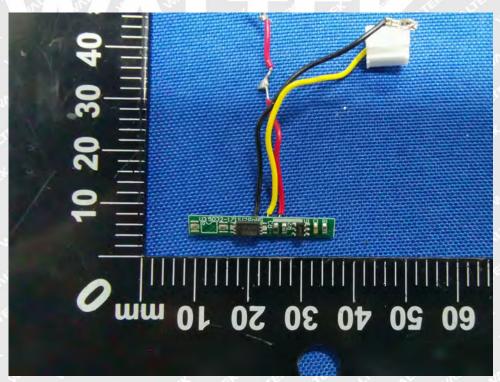


Photo 20



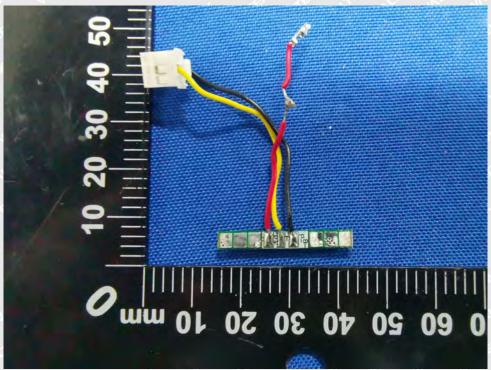


Photo 21

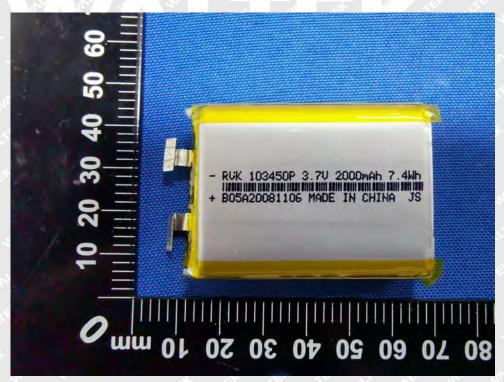


Photo 22



Photo Documentation

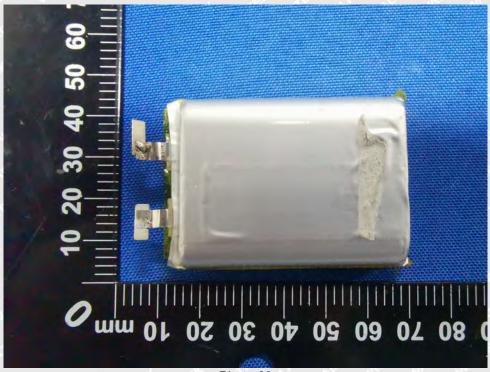


Photo 23

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