



# **TEST REPORT**

Reference	No	:	WTF23D112	253407Y

Applicant.....: Mid Ocean Brands B.V.

Hong Kong

Manufacturer..... : 115164

Address.....: --

Product.....: LED Wireless speaker

Model(s)..... : MO6662

Total pages .....: 67 pages and 4 pages of photo.

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2023-11-29

**Date of Test**.....: 2023-11-29 to 2023-12-12

Date of Issue..... : 2023-12-22

Test Result.....: Pass

#### Remarks:

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

# Prepared By:

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Compiled by: Approved by:

Soapthu

Soap Hu / Project Engineer

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Test item description LED Wireld	ess speaker
Trademark MOB	
Model and/or type reference MO6662	
	C, 1000mA 7V, 1800mAh
Remark:	
Whether parts of tests for the product have been s	ubcontracted to other labs:
☐ Yes ⊠ No	
If Yes, list the related test items and lab information	i the wife with white were all and
Test items: Lab information:	THE THE LIFE STIFF WITH SMITH WILLIER
Summary of testing:	her me my my the state of
Tests performed (name of test and test clause):	Testing location:
- EN IEC 62368-1: 2020+A11: 2020	No. 77, Houjie Section, Guantai Road,
The submitted samples were found to comply with the requirements of above specification.	Houjie Town, Dongguan City, Guangdong, China
EU Group Differences  ☑ The product fulfils the requirements of EN IEC 6	52368-1:2020+A11:2020.
Use of uncertainty of measurement for decision	ns on conformity (decision rule) :
No decision rule is specified by the IEC stan applicable limit according to the specification in without applying the measurement uncertainty ("accuracy method").	dard, when comparing the measurement result with the that standard. The decisions on conformity are made simple acceptance" decision rule, previously known as
Other: (to be specified, for example when requirements apply)	uired by the standard or client, or if national accreditation
Information on uncertainty of measurement: The uncertainties of measurement are calculated to OD-5014 for test equipment and application of test	by the laboratory based on application of criteria given by

measurement uncertainty for measurements is not necessary unless required by the test standard or

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted

customer.

the testing.





# Copy of marking plate:

MOB/MO6662 Frequency range: PO BOX 644 2402-2480MHz 6710 BP (NL) Maximum RF power



## Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which donot give rise to misunderstanding may be added.
- 2. The CE marking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.



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TEST ITEM PARTICULARS:	With any and any and the
Product group	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☐ Instructed person</li><li>☐ Skilled person</li></ul>
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	<ul> <li>□ pluggable equipment type A -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ direct plug-in</li> <li>□ pluggable equipment type B -</li> <li>□ non-detachable supply cord</li> <li>□ appliance coupler</li> <li>□ permanent connection</li> <li>□ mating connector ⋈ other: not Mains connected</li> </ul>
Considered current rating of protective device as part of building or equipment installation:	<ul><li>☐ UK: 13 A; Others: 16 A;</li><li>Location: ☐ building ☐ equipment</li><li>☒ N/A</li></ul>
Equipment mobility:	<ul> <li>☐ movable</li> <li>☐ hand-held</li> <li>☐ transportable</li> <li>☐ direct plug-in</li> <li>☐ stationary</li> <li>☐ for building-in</li> <li>☐ wall/ceiling-mounted</li> <li>☐ SRME/rack-mounted</li> <li>☐ other:</li> </ul>
Over voltage category (OVC):	□ OVC I       □ OVC II       □ OVC III         □ OVC IV       ⋈ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location:	<ul><li>N/A ☐ restricted access area</li><li>☐ outdoor location ☐</li></ul>
Pollution degree (PD):	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	25°C  Outdoor: minimum°C
IP protection class:	☑ IPX0 □ IP
Power Systems:	☐ TN ☐ TT ☐ ITV 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)	☑ 0.503kg



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POSSIBLE TEST CASE VERDICTS:	Mr. Aug. Aug. Aug.
- 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:	Jun Jun Jun Jun Jun July 1884
Date of receipt of test item:	See cover page.
Date (s) of performance of tests:	See cover page.
GENERAL REMARKS:	LIFE STEE WILL MILL MILL WILL WILL
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to the Throughout this report a $\square$ comma $I \bowtie$ point is upon the second second and the second sec	the report.
GENERAL PRODUCT INFORMATION:	t lifet wife write while while while
Product Description  1. The equipment with model MO6662 is LED Wireles 2. It is powered by Micro USB port conformed to LPS 3. The maximum operating temperature is 25°C.	
Model Differences N/A	LIER WHITE WHITE WHITE WHITE WALL WALL WALL
Additional application considerations – (Considerations)	rations used to test a component or sub-



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Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All internal circuit	Ordinary	N/A	N/A	N/A	
ES1: Lithium Cell	Ordinary	N/A	N/A	N/A	
5	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S	
PS1: <15 Watt circuits (except for the battery)	PCB	N/A	N/A	N/A	
PS2: ≥15 Watt circuits and < 100 Watt (Battery)	The other components/materials	Equipment Safeguards	N/A	N/A	
7	Injury caused by hazardous	substances			
Class and Energy Source	Body Part		Safeguards	guards	
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
N/A W W	N/A	N/A	N/A	N/A	
8	Mechanically-caused injury		,		
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: Mass of the unit	Ordinary	N/A	N/A	N/A	
e	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LED for indicating	Ordinary	N/A	N/A	N/A	



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# **ENERGY SOURCE DIAGRAM**

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

 $oxed{oxed}$  ES  $oxed{oxed}$  PS  $oxed{oxed}$  MS  $oxed{oxed}$  TS  $oxed{oxed}$  RS

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

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-6		The street of the	-01 -01		
13			IEC 62368-1	The Will May 1	14. Apr. 44.
	Clause	Requirement – Test	Write Auto Mis An	Result – Remark	Verdict

"Mer,	All All Si	TER SITE OUTE WITE WITE	" "
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P
4.1.2 unties	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	MILLER WAS
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	W P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	2 24 24	N/A
4.4.3.2	Steady force tests	THE THE LITTLE OF	N/A
4.4.3.3	Drop tests	i m m	N/A
4.4.3.4	Impact tests	gy lifet alifet miles and	N/A
4.4.3.5	Internal accessible safeguard tests	No such parts.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such parts.	N/A
The Mari	Glass impact test (1J)	LIER WILE WHILE WHILE	N/A
et et	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	VIEW WILL MULL MULL M	N/A
4.4.3.9	Air comprising a safeguard	a st set a	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E WILL MULL MULL MULL	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	ALTER WALL WALL OF	P.
4.5.1	General Company of the Company of th	No explosion occurs during normal/abnormal operation and single fault conditions	TEK P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P



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In Mur	IEC 623	68-1	
Clause	Requirement – Test	Result – Remark	Verdict
- KEK	No harm by explosion during single fault	(See Clause B.4)	P

MITER N	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	See below	N/A
Liter Mil	Fix conductors not to defeat a safeguard	TEX LIER NITER MITE	N/A
A 10	Compliance is checked by test	the many	N/A
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	et alies while while whi	N/A
4.8	Equipment containing coin/button cell batteries	S S	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	THE STEE WITER SMITH S	N/A
4.8.3	Battery compartment door/cover construction	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
with	Open torque test	EX NITER WITE WALTER WA	N/A
4.8.4.2	Stress relief test	W T A	N/A
4.8.4.3	Battery replacement test	NITER MITE WALL WALL	N/A
4.8.4.4	Drop test	The set	N/A
4.8.4.5	Impact test	White white	N/A
4.8.4.6	Crush test	the set	N/A
4.8.5	Compliance	LIE WILL AND AND A	N/A
LITER	30N force test with test probe	L OF SET SET S	N/A
211.	20N force test with test hook	Wer Mer Mer Me	N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	P
4.10	Component requirements	Auri Aur Aur Au	N/A
4.10.1	Disconnect Device	TEX TEX STEEL STEEL	N/A
4.10.2	Switches and relays	her me me	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy so	ources	Р
5.2.2	ES1, ES2 and ES3 limits	in mir me me me	Р
5.2.2.2	Steady-state voltage and current limits	. (See appended table 5.2)	Р
5.2.2.3	Capacitance limits	. No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	111 111 111	Р
5.3	Protection against electrical energy sources	et itel allet oute and	N P



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01	IEC 62368-1	D 4 D 4	11/ 11/1
Clause	Requirement – Test	Result – Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	The let the st	Par
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	They show they are	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	NITER WALTER WALTER WALTER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
White of	Accessibility to outdoor equipment bare parts	t liet wife wife wh	N/A
5.3.2.2	Contact requirements	7/1 // //	N/A
iner win	Test with test probe from Annex V	alter while while while	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	an a state of	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIER MITE WALL MALL	N/A
5.3.2.3	Compliance	a start set	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at at the	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	et Jet ite	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, B.3, B.4)	Р
5.4.1.5	Pollution degrees	IF WILL MULL MULL	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	A WITER WITER WITER WI	N/A
5.4.1.5.3	Thermal cycling test	71 7	N/A
5.4.1.6	Insulation in transformers with varying dimensions	INLIER WALTE WALL WALL	N/A
5.4.1.7	Insulation in circuits generating starting pulses	and the set	N/A
5.4.1.8	Determination of working voltage	NITE WILL WILL WILL	N/A
5.4.1.9	Insulating surfaces	e at at at	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	murit mer me w	N/A
5.4.1.10.2	Vicat test	CALIER MALIE MALIE WAS	N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	WITE MALLE WALL WALL	N/A
5.4.2.1	General requirements	L St. St. Set.	N/A
- WI-	Clearances in circuits connected to AC Mains, Alternative method	The Marie Marie Marie	N/A
5.4.2.2	Procedure 1 for determining clearance	ex niter white white wh	N/A
All P	Temporary overvoltage	70 St Ct C	e —
5.4.2.3	Procedure 2 for determining clearance	alter with with which	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
oladoo.	A Codemonate Cost	Troodic Tromany	100000
5.4.2.3.2.2	a.c. mains transient voltage	711 721	
5.4.2.3.2.3	d.c. mains transient voltage	SLIEF WITE WILLE	white -
5.4.2.3.2.4	External circuit transient voltage	24 27	- H
5.4.2.3.2.5	Transient voltage determined by measurement	WILL WALLE MALL M	LE _
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	TEX SLIEK MITEX WAS	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t itek sitek site	N/A
5.4.2.6	Clearance measurement	24, 24, 25,	N/A
5.4.3	Creepage distances	LIER SLIER MILE	N/A
5.4.3.1	General	41. 41. 4	N/A
5.4.3.3	Material group	LIER WILL WILL WILL	17, 1
5.4.3.4	Creepage distances measurement		N/A
5.4.4	Solid insulation	ET WILL WALLE WALL	N/A
5.4.4.1	General requirements	A A A	N/A
5.4.4.2	Minimum distance through insulation	WILL MULL MULL	N/A
5.4.4.3	Insulating compound forming solid insulation	A A A	N/A
5.4.4.4	Solid insulation in semiconductor devices	The same of	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	re mer mer me	N/A
5.4.4.6.1	General requirements	of the the	N/A
5.4.4.6.2	Separable thin sheet material	Mr. Mr. M.	N/A
antifer and	Number of layers (pcs)	THE LITTLE STEEL	N/A
5.4.4.6.3	Non-separable thin sheet material	an an an	N/A
The Mari	Number of layers (pcs)	TER STER WITER	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	et let let l	N/A
5.4.4.6.5	Mandrel test	ne me m	N/A
5.4.4.7	Solid insulation in wound components	- Tet Jet Jel	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	The The Tex	N/A
TEX TEX	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	mer mer mer	N/A
5.4.5	Antenna terminal insulation	LIE MALL WALL WA	N/A
5.4.5.1	General	a at at a	+ N/A
5.4.5.2	Voltage surge test	WALL WALL WALL	N/A
5.4.5.3	Insulation resistance (MΩ)	4 4 4	N/A



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24	IEC 62368-1	stiff with white	The the
Clause	Requirement – Test	Result – Remark	Verdict
Mr.	The state of the s	EL MILL MILL MILL	NIA COLO
5.40	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	MULLE MULL AUTE AN	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITER WALTER WALTER WALT	N/A
5.4.8	Humidity conditioning	of fet tet liter	N/A
- TEX	Relative humidity (%), temperature (°C), duration (h)	mer mer mi	,
5.4.9	Electric strength test	intie with min a	N/A
5.4.9.1	Test procedure for type test of solid insulation	the state of	N/A
5.4.9.2	Test procedure for routine test	Write Mrs. Mar. Mrs.	N/A
5.4.10	Safeguards against transient voltages from external circuits	LIEK WILLER WILLER	N/A
5.4.10.1	Parts and circuits separated from external circuits	a start	N/A
5.4.10.2	Test methods	er unite whit whi	N/A
5.4.10.2.1	General	A ST ST	N/A
5.4.10.2.2	Impulse test	Write Mury Mury My	N/A
5.4.10.2.3	Steady-state test	at a state of	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	- I have the	N/A
5.4.11	Separation between external circuits and earth	ITE WALL WALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	A STER STER SMITH	N/A
5.4.11.2	Requirements	The state of	N/A
Mr. Mu	SPDs bridge separation between external circuit and earth	white white white wh	N/A
ILL MILL	Rated operating voltage U <sub>op</sub> (V)	TEX LIFE OLIVE MITE	_
st set	Nominal voltage U <sub>peak</sub> (V)	The state of the s	_
Mill	Max increase due to variation ΔU <sub>sp</sub>	EK SLIER MLIE WALLE	_ n_
. Lit	Max increase due to ageing ΔU <sub>sa</sub>	The state of	_
5.4.11.3	Test method and compliance	MITE WALTE WALT W	N/A
5.4.12	Insulating liquid	t at at	N/A
5.4.12.1	General requirements	MULLE MULL MULL MULL	N/A
5.4.12.2	Electric strength of an insulating liquid	A St St St	N/A
5.4.12.3	Compatibility of an insulating liquid	The Maria Maria Maria	N/A
5.4.12.4	Container for insulating liquid	at left test tight	N/A
5.5	Components as safeguards	Mur Mr Mr.	N/A
5.5.1	General	No such components as safeguards.	N/A



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40.	IEC 62368-1	all the sale sale	20. 2
Clause	Requirement – Test	Result – Remark	Verdict
- an	All the state of the state of	The Walter Will Will	11/2 21/2
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement	WILL WALL MALL	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	TEX LIEX SLIEX IN	N/A
5.5.3	Transformers	the the me	N/A
5.5.4	Optocouplers	TER STEEL WITER WALL	N/A
5.5.5	Relays	24. 25.	N/A
5.5.6	Resistors	* STEE WITE WITE	N/A
5.5.7	SPDs	41 4	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	MULTER MULTER WALTER	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	LIER WHITER WHITER WA	N/A
NLTER	RCD rated residual operating current (mA)	et let let lite	, i –
5.6	Protective conductor	Mer Mer My	N/A
5.6.2	Requirement for protective conductors	t tex tex ster	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	At ALTER	N/A
5.6.3	Requirement for protective earthing conductors		N/A
in white	Protective earthing conductor size (mm²)	The Life of the Miles	· –
k nijek	Protective earthing conductor serving as a reinforced safeguard	* TEK TEK TITEK	N/A
TEK.	Protective earthing conductor serving as a double safeguard	Mus. Any Ang	N/A
5.6.4	Requirements for protective bonding conductors	WHILE MAN MUT.	N/A
5.6.4.1	Protective bonding conductors	at at let	N/A
211	Protective bonding conductor size (mm²)	her many my m	_
5.6.4.2	Protective current rating (A)	at let let it	N/A
5.6.5	Terminals for protective conductors	Mr. Mr. My	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	- Whitek Whitek Whitek	N/A
INLITER JUN	Terminal size for connecting protective bonding conductors (mm)	NUTER WILLER	N/A
5.6.5.2	Corrosion	a st st	N/A
5.6.6	Resistance of the protective bonding system	LIE MALIE WALLE WAS	N/A
5.6.6.1	Requirements	1 1 1 1	N/A
5.6.6.2	Test Method	WALLE MALL MALL	N/A
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop		N/A



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing	me, me, me m	N/A
uret uni	Conductor size (mm²)	TEX TEX STEE STEE	N/A
AL /1	Class II with functional earthing marking	The Pale Line Land	N/A
WILL	Appliance inlet cl &cr (mm)	TER STER STER WITE IS	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	et alter miter uniter and	N/A
5.7.2.1	Measurement of touch current	20 2 x x	N/A
5.7.2.2	Measurement of voltage	ALTER WITE WALL MILE	N/A
5.7.3	Equipment set-up, supply connections and earth connections	THE LIEK SLIEK MILEK	N/A
5.7.4	Unearthed accessible parts	2 M M	N/A
5.7.5	Earthed accessible conductive parts	EX SITEX WITE WITE W	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	Tet It with	N/A
2. T	Protective conductor current (mA)	The Au Au	N/A
NITE WA	Instructional Safeguard	At Just Mile	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	The last	N/A
5.7.7.1	Touch current from coaxial cables	in me me me	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	* Whitek whitek whitek on	N/A
5.7.8	Summation of touch currents from external circuits	DIFER MITER WHITE	N/A
LIEK MAL	a) Equipment connected to earthed external circuits, current (mA)	THE LIFE MITTER MITTER	N/A
EK SLIEK	b) Equipment connected to unearthed external circuits, current (mA)	at at at the	N/A
5.8	Backfeed safeguard in battery backed up suppl	lies we we we	N/A
INLIE .	Mains terminal ES	No battery used	N/A
2, ,	Air gap (mm)	Mr. Mr. Mr. An.	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	at let let little	THE P LITT
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P ARK WINLIEK



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Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	Р
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	DE P
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P White
in in	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	P
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX WILEX WILLEX M	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	LIER SLIER MITER MILE	N/A
6.4.3.1	Supplementary safeguards	The state of the s	N/A
6.4.3.2	Single Fault Conditions	LEX MILL MILL	N/A
et e	Special conditions for temperature limited by fuse	The second	N/A
6.4.4	Control of fire spread in PS1 circuits	THE WALL WALL WALL	Р
6.4.5	Control of fire spread in PS2 circuits	and the state of	P.
6.4.5.2	Supplementary safeguards	Marie While Marie And	Р
6.4.6	Control of fire spread in PS3 circuits	nt at at a	N/A
6.4.7	Separation of combustible materials from a PIS	MULL MULL MULL MULL	N/A
6.4.7.2	Separation by distance	at let let liet	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	P
6.4.8.2	Fire enclosure and fire barrier material properties	V-1 plastic enclosure used	Р
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-1 plastic enclosure used	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	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A
	Openings dimensions (mm)	Mr. Mr. M. M.	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A



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Clause			
Clause	Requirement – Test	Result – Remark	Verdict
The !	all all the state of the state	EL WILL WILL OUT W	211
C. C.	Openings dimensions (mm)		N/A
ans an	Flammability tests for the bottom of a fire enclosure	MULTE MULTE MULT WALL	N/A
Tiles Wir	Instructional Safeguard	THE THE NUTER WITE	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
White	Openings dimensions (mm)	TEX SLIEK WITER WITE W	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	White Mary Mary Mary	N/A
6.5	Internal and external wiring	A SH SH TEN	UE P
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	P III
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	P
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	N/A
6.6	Safeguards against fire due to the connection to additional equipment		Р
- we		The Straight will a	10, 21
7	INJURY CAUSED BY HAZARDOUS SUBSTANC		P
7.2	Reduction of exposure to hazardous substance	s the with the	N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards or personal protect	ive equipment (PPE)	N/A
JEH . J.	Personal safeguards and instructions		_
7.5	Use of instructional safeguards and instruction	SIT WE WE WE	N/A
EX STEE	Instructional safeguard (ISO 7010)	at the set	_
7.6	Batteries and their protection circuits	in mur mur mur m	P
8			oli P
	MECHANICALLY-CAUSED INJURY	<i>a.</i>	
8.2	Mechanical energy source classifications	THE THE LIEF WILL	Р
8.3	Safeguards against mechanical energy sources	aive. were any	P
8.4	Safeguards against parts with sharp edges and	corners	Р
8.4.1	Safeguards	The The The	P
	Instructional Safeguard:	MS1: Edges and corners of enclosure	Р
8.4.2	Sharp edges or corners	Edges and corners of the	P



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Clause	Requirement – Test	WILL MULL MU M	Result – Remark	Verdict

8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
tie mit	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
ER RUER	Moving MS3 parts only accessible to skilled person	at let let liet o	N/A
8.5.2	Instructional safeguard	and any and any	N/A
8.5.4	Special categories of equipment containing moving parts	t united united united unit	N/A
8.5.4.1	General	at at the set	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	antit wat war war	N/A
8.5.4.2.1	Protection of persons in the work cell	LEK TEK TEK NITEK	N/A
8.5.4.2.2	Access protection override	in my my	N/A
8.5.4.2.2.1	Override system	EX TEX STEX STEE SING	N/A
8.5.4.2.2.2	Visual indicator	m. m. m.	N/A
8.5.4.2.3	Emergency stop system	LIER NITER WITE WALL	N/A
NITEK MILI	Maximum stopping distance from the point of activation (m)	itet altet	N/A
EK JEK	Space between end point and nearest fixed mechanical part (mm):	To the left	N/A
8.5.4.2.4	Endurance requirements	it mit wit me a	N/A
WILLER	Mechanical system subjected to 100 000 cycles of operation	t intiget whitek whitek whi	N/A
TEK N	- Mechanical function check and visual inspection	A ST ST ST	N/A
in in	- Cable assembly:	white will will you	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	Street intrest martest materials	N/A
8.5.4.3.1	Equipment safeguards	a start set	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	it will mit me m	N/A
8.5.4.3.3	Disconnection from the supply	- at all all of	N/A
8.5.4.3.4	Cut type and test force (N):	Auri Aur Aur Au	N/A
8.5.4.3.5	Compliance	TEX TEX STEX NUTER	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
TE MILTE	Explosion test:	THE LIFE WIFE WIFE	N/A
8.5.5.3	Glass particles dimensions (mm):	10. 10. 10.	N/A
8.6	Stability of equipment	Et alter miter and while while	N/A
8.6.1	General	MS1: Mass of the unit	N/A
are ar	Instructional safeguard	LIE ALTE BLIL MALL	N/A



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20.	IEC 62368-1	Kry Wer What What	70. 2.
Clause	Requirement – Test	Result – Remark	Verdict
8.6.2	Static stability	Anti-Anti-Anti-A	N/A
8.6.2.2	Static stability test:	THE STATE OF	N/A
8.6.2.3	Downward force test	They are also and	N/A
8.6.3	1 The	THE THE WITH MAN	N/A N/A
8.0.3	Relocation stability	We also the	IN/A
ier write	Wheels diameter (mm):	The lift of the life.	
	Tilt test	All All All	N/A
8.6.4	Glass slide test	t stet with with w	N/A
8.6.5	Horizontal force test:	10, 10,	N/A
8.7	Equipment mounted to wall, ceiling or other stru		N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	LIFE WILLE WALLE WALLY	N/A
<u> </u>	Test 1, additional downwards force (N):		N/A
m, t	Test 2, number of attachment points and test force (N)	Examile mill mill	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)	Whitek whitek whitek wh	N/A
8.8	Handles strength	at of the cit	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	The Little	N/A
, 4	Number of handles:	in my my	
MITE	Force applied (N)	the little with the	رن <sup>ان م</sup> رنا
8.9	Wheels or casters attachment requirements	The The The	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	211 211 22	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	Et JEK JEK WIER	N/A
8.10.3	Cart, stand or carrier loading test	the the this	N/A
White is	Loading force applied (N)	- LIEN WILLER WILLER	N/A
8.10.4	Cart, stand or carrier impact test	111 111 111 111	N/A
8.10.5	Mechanical stability	ALTER MITER MALTER MALT	N/A
.e. 16	Force applied (N)		_d-
8.10.6	Thermoplastic temperature stability	LIEF WILL MULLE AND THE	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	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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Clause	Requirement – Test	Result – Remark	Verdict
april	The state of	THE SLIP MILL WILL	The Me
At the	Instructional Safeguard:	10 x	N/A
8.11.3	Mechanical strength test	CHIEF WITE WALTE	N/A
8.11.3.1	Downward force test, force (N) applied:	The state of	N/A
8.11.3.2	Lateral push force test	PLIES WALLE WALL OF	N/A
8.11.3.3	Integrity of slide rail end stops	a state	N/A
8.11.4	Compliance	TE WILL MULT MY	N/A
8.12	Telescoping or rod antennas	e at at a	N/A
201.	Button/ball diameter (mm)	No such parts	- n
4	The Life Will Wall Mark And	L H 18	All Str.
_			10 11.

9	THERMAL BURN INJURY		ZIL B
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits	THE METERINAL WALL WILL WILL WILL WILL WILL WILL WI	Р
9.3.1	Touch temperatures of accessible parts	: (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	IEK PLI
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy source	SITE MITE WALL WALL	A <sub>U</sub> , b
9.5	Requirements for safeguards		P
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	THE VIN
9.5.2	Instructional safeguard	: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitt	ers + the tree tree	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	THE STEE STEEL WITH MILITE	N/A
9.6.3	Test method and compliance	:2	N/A

10	RADIATION  Radiation energy source classification		Р
10.2			n/P
10.2.1	General classification	See below	Р
Ville "A	Lasers	LIER OLIER WHILE WHILE	_
TEKWIL	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low power application.	_
L LIE	Image projectors	at all all the	_
20,	X-Ray:	The Mer Mer M	_
CLIER	Personal music player	LEK TEK TEK ALTE	<del>_</del>



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<u> </u>		30 9	and the second second	
in an		IEC 62368-1		
Clause	Requirement – Test	Mr. M. M	Result – Remark	Verdict

10.3	Safeguards against laser radiation		N/A
mr. m	The standard(s) equipment containing laser(s) comply:	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	os and lamp systems	unti P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	LIER P
MALTER	Instructional safeguard provided for accessible radiation level needs to exceed	et street mirror spring	N/A
A	Risk group marking and location:	7/11 / 12	N/A
ner in	Information for safe operation and installation	alter mile antib white	N/A
10.4.2	Requirements for enclosures	The state of the s	N/A
N. M.	UV radiation exposure:	LIET WILL WILL WILL	N/A
10.4.3	Instructional safeguard		N/A
10.5	Safeguards against X-radiation	TE WILL WILL MUST WE	N/A
10.5.1	Requirements	No X-radiation	N/A
21/2 21	Instructional safeguard for skilled persons	Write Murr Mur Mur	_
10.5.3	Maximum radiation (pA/kg)	TEN TEN	_
10.6	Safeguards against acoustic energy sources	A Aug. Aug.	N/A
10.6.1	General	The The	N/A
10.6.2	Classification	in my my my	N/A
MILE	Acoustic output L <sub>Aeq,T</sub> , dB(A):	of the tiet attention	N/A
عاد ا	Unweighted RMS output voltage (mV)::	The The The	N/A
Write an	Digital output signal (dBFS):	TEX STEE OUTE SOUTH	N/A
10.6.3	Requirements for dose-based systems	4	N/A
10.6.3.1	General requirements	LIER SLIER WILL WHILE	N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	TER MITE WALL VI	N/A
A ELECTRICAL PROPERTY AND A SECOND PROPERTY	30 s integrated exposure level (MEL30):	1 1 1 1	N/A
21/2 2	Warning for MEL ≥ 100 dB(A)	Inte write with white	N/A
10.6.4	Measurement methods	A ST SET SET	N/A
10.6.5	Protection of persons	White Muri Mur Mur	N/A
TEX STE	Instructional safeguards	at the alt the	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	Citt mail mar me a	N/A
10.6.6.1	Corded listening devices with analogue input	Tet intit whit whit wh	N/A
TEX	Listening device input voltage (mV)	the state of	N/A
10.6.6.2	Corded listening devices with digital input	RITE MILL WALL WALL	N/A



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Clause	Requirement – Test Result – Remark		Verdict	
- CA	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	their are are all	N/A	
10.6.6.3	Cordless listening devices	ALTER WILL MALTE WAL	N/A	
jet s	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	The state of the s	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		TEK P
B.1	General A THE		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	W. P
LIEK WAL	Audio Amplifiers and equipment with audio amplifiers	STEEL MATER WATER WALTER	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	P
B.2.5	Input test	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	L at at all of	Р
B.3.1	General	(See appended table B.3)	A. b
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
1. 2.	Instructional safeguard	2 20 20	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	JA P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	P
B.4	Simulated single fault conditions	ing my my mi	Р
B.4.1	General	et tet tet atter	P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	P WALT
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	IT P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	, P.
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3	√P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	JIN P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV re	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	- TEN TEN TEN AL	N/A
C.2	UV light conditioning test	where the the	N/A
C.2.1	Test apparatus:	the life of the	N/A
C.2.2	Mounting of test samples	- 1 In In	N/A
C.2.3	Carbon-arc light-exposure test	THE THE METER NATION	N/A
C.2.4	Xenon-arc light-exposure test	111, 111, 12	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	7/1 2/2	N/A
D.2	Antenna interface test generator	TIER WILL MILL MILL	N/A
D.3	Electronic pulse generator	The second second	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	No. ba
E.1	Electrical energy source classification for audio	o signals	P
m	Maximum non-clipped output power (W)	See appended table	_
CIER	Rated load impedance (Ω):	See appended table	ş —
411, 1	Open-circuit output voltage (V)	See appended table	
NLTER JO	Instructional safeguard	See appended table	_
E.2	Audio amplifier normal operating conditions	Mur Mur Mr M.	Р
IET MALT	Audio signal source type:	See appended table	_
ı st	Audio output power (W)	See appended table	_
White	Audio output voltage (V):	See appended table	_
1	Rated load impedance (Ω):	See appended table	
11 17 1	Requirements for temperature measurement	LITER STIEF JOLIES JOLI	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
- m - 1		the tite with our on		
E.3	Audio amplifier abnormal operating conditions		N/A P	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS			
F.1	General	TER TER WIFE WIFE	J. P.	
* #	Language:	English	_	
F.2	Letter symbols and graphical symbols	TEX SITES WITER WAITE W	P/	
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	EF P	
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P	
F.3	Equipment markings	VILLE MULL MULL MULL	Р	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	TE PI	
F.3.2	Equipment identification markings	See below for details.	Р	
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р	
F.3.2.2	Model identification:	See copy of marking plate	Р	
F.3.3	Equipment rating markings	See below for details.	LITT PU	
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A	
F.3.3.2	Equipment without direct connection to mains	See above.	Р	
F.3.3.3	Nature of the supply voltage:	7/1 /1/1	N/A	
F.3.3.4	Rated voltage	LIER SLIEF WILLES WHITE	N/A	
F.3.3.5	Rated frequency:	Mr W L	N/A	
F.3.3.6	Rated current or rated power:	LIER OLIER WHILE WHILE	N/A	
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A	
F.3.4	Voltage setting device	No voltage setting device.	N/A	
F.3.5	Terminals and operating devices	1 1 1 1	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	MULL MULL MULL MILL	N/A	
F.3.5.2	Switch position identification marking:	TITEL WILL MILE MILE	N/A	
F.3.5.3	Replacement fuse identification and rating markings	TEX LIEX SLIEX WITEX	N/A	
1 st	Instructional safeguards for neutral fuse:	. W. W. W.	N/A	
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A	
F.3.5.5	Neutral conductor terminal	No such parts.	N/A	
F.3.5.6	Terminal marking location	THE STEE STEELS	N/A	



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Clause	Requirement – Test	Result – Remark	Verdict	
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A	
F.3.6.1	Class I equipment	me me m	N/A	
F.3.6.1.1	Protective earthing conductor terminal	TEX STEX NUTER MUTE	N/A	
F.3.6.1.2	Protective bonding conductor terminals	W. M. M. M.	N/A	
F.3.6.2	Equipment class marking:	TEX STEEL WILL NOTE IN	N/A	
F.3.6.3	Functional earthing terminal marking	24 24	N/A	
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	71 <u>17</u>	
F.3.8	External power supply output marking:	THE STEE STEE WITE	N/A	
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р	
F.3.10 FEE WALTER	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	THE P	
F.4	Instructions	E MULL MULL MULL MULL	Р	
- STEK O	a) Information prior to installation and initial use	See user manual	Р	
an an	b) Equipment for use in locations where children not likely to be present	men and the my	N/A	
in the	c) Instructions for installation and interconnection	HILL WHILL MAIN MULT.	N/A	
ek waliek	d) Equipment intended for use only in restricted access area	Et STER BUTER METER	N/A	
- Jet	e) Equipment intended to be fastened in place	10 2 x	N/A	
21/2/2	f) Instructions for audio equipment terminals	" " TIER " WILL " MULL " MULL	√/P	
All .	g) Protective earthing used as a safeguard	and the second	N/A	
ire. Au	h) Protective conductor current exceeding ES2 limits	MULTER MULTER MULT MILE	N/A	
MALI	i) Graphic symbols used on equipment	TEX NIET MITE WAITE	N/A	
ik mijek	j) Permanently connected equipment not provided with all-pole mains switch	at the state state of	N/A	
, lit	k) Replaceable components or modules providing safeguard function	The the the	N/A	



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
The same	N Familian and a state of the s	Er Will Will Will	NI/A	
- Liet 1	I) Equipment containing insulating liquid		N/A	
<u> </u>	m) Installation instructions for outdoor equipment	White where where	N/A	
F.5	Instructional safeguards		N/A	
G	COMPONENTS		√ P √	
G.1	Switches		N/A	
G.1.1	General	No switch used	N/A	
G.1.2	Ratings, endurance, spacing, maximum load	e of our out	N/A	
G.1.3	Test method and compliance	Murray Mr. Mur	N/A	
G.2	Relays	at at 18th	N/A	
G.2.1	Requirements	No relay used.	N/A	
G.2.2	Overload test	at let let i	N/A	
G.2.3	Relay controlling connectors supplying power to other equipment	t it it is	N/A	
G.2.4	Test method and compliance	E WILL MUT AND	N/A	
G.3	Protective devices	and the set	N/A	
G.3.1	Thermal cut-offs	No such component	N/A	
INLIEK WIN	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	or white we	N/A	
TEX WALTE	Thermal cut-outs tested as part of the equipment as indicated in c)	The Time Mile Mark	N/A	
G.3.1.2	Test method and compliance	24, 25, 2	N/A	
G.3.2	Thermal links	No such component	N/A	
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	TEL STELL SITER	N/A	
	b) Thermal links tested as part of the equipment	my my my	N/A	
G.3.2.2	Test method and compliance	TEX LIEX WIFE W	N/A	
G.3.3	PTC thermistors	No such component	N/A	
G.3.4	Overcurrent protection devices	No such component	N/A	
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	the text rest	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	Mr. Mr. Mr.	N/A	
G.3.5.2	Single faults conditions:	MULLE MULL MULL AL	N/A	
G.4	Connectors	A 1 1 1 5	N/A	
G.4.1	Spacings	No such component	N/A	
G.4.2	Mains connector configuration:	of the top the	N/A	
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	ment ment wint	N/A	



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" av		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict
ar.	The The Table	it the the still new out	ar ar

100	and the till	the state with the	init in
G.5	Wound components	111 11 11 11 11 11 11 11 11 11 11 11 11	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	201 27	N/A
G.5.2	Endurance test	NITER WITE WALL WALL WAL	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test	THE WILL MALL WALL	N/A
TER	Test time (days per cycle):	L A SH SH	
11/2 1	Test temperature (°C):	white whi whi	n,
G.5.2.3	Wound components supplied from the mains	at at 18th.	N/A
G.5.2.4	No insulation breakdown	White Must me me	N/A
G.5.3	Transformers	of the text of	N/A
3.5.3.1	Compliance method:	her me me	N/A
MLTE	Position:	Et TET TET STEE	N/A
	Method of protection:	my my m	N/A
G.5.3.2	Insulation	THE STEP MITTER	N/A
,t	Protection from displacement of windings:	1/1 2/1 2	ـ ـ ـ
9.5.3.3	Transformer overload tests	Let Inlie wa	N/A
9.5.3.3.1	Test conditions		N/A
9.5.3.3.2	Winding temperatures	THE WITE WALL WALL	N/A
9.5.3.3.3	Winding temperatures - alternative test method	L A At	N/A
G.5.3.4	Transformers using FIW	WILL WILL WALL	N/A
G.5.3.4.1	General	a at at	N/A
ne m	FIW wire nominal diameter:	antie white white w	_
G.5.3.4.2	Transformers with basic insulation only	at at at s	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	WE MAN THE THE	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	anti unti unt	N/A
G.5.3.4.5	Thermal cycling test and compliance	LIER WITE WITE	N/A
3.5.3.4.6	Partial discharge test	Zh. Z. Z.	N/A
9.5.3.4.7	Routine test	OLITER MALTER WALLE WA	N/A
G.5.4	Motors	No motors used.	/ N/A
G.5.4.1	General requirements	LIER WALLE WALLE WALL	N/A
3.5.4.2	Motor overload test conditions	t at the site	N/A
G.5.4.3	Running overload test	Se White Muli Muli	N/A
G.5.4.4.2	Locked-rotor overload test	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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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mr.		Experience and and and	The This	
	Test duration (days):			
G.5.4.5	Running overload test for DC motors	WALTE WALT WALE	N/A	
G.5.4.5.2	Tested in the unit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
G.5.4.5.3	Alternative method	Write autil Aury An	N/A	
G.5.4.6	Locked-rotor overload test for DC motors	a state	N/A	
G.5.4.6.2	Tested in the unit	it with mir me	N/A	
· JEK	Maximum Temperature:	e at all all	N/A	
G.5.4.6.3	Alternative method	while while whe	N/A	
G.5.4.7	Motors with capacitors	at let set	N/A	
G.5.4.8	Three-phase motors	Mer, Mer, Mer, 2	N/A	
G.5.4.9	Series motors	let telt telt t	N/A	
4 4	Operating voltage	or me me in	_	
G.6	Wire Insulation	CEL TEL TEL STE	N/A	
G.6.1	General	My My M	N/A	
G.6.2	Enamelled winding wire insulation	TEN LITER OLITER	N/A	
G.7	Mains supply cords	111 211	N/A	
G.7.1	General requirements	No such component	N/A	
at all	Туре:		, –	
G.7.2	Cross sectional area (mm² or AWG):	THE RITE WITE WITE	N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	* TER STER WITE	N/A	
G.7.3.2	Cord strain relief	24, 24, 2,	N/A	
G.7.3.2.1	Requirements	LIER NITER MITER	N/A	
.+ .	Strain relief test force (N)	M. 10, 10, 1	N/A	
G.7.3.2.2	Strain relief mechanism failure	LIER NITER WALLEN	N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		A N/A	
G.7.3.2.4	Strain relief and cord anchorage material	IEC NITE WITE WAL	N/A	
G.7.4	Cord Entry	1	N/A	
G.7.5	Non-detachable cord bend protection	INLIE MALIE WALLE	N/A	
G.7.5.1	Requirements	a at at	N/A	
G.7.5.2	Test method and compliance	Write Write Muit A	N/A	
TEKWALTE	Overall diameter or minor overall dimension, <i>D</i> (mm)	TER WITER WITER WAY	TEK -	
t st	Radius of curvature after test (mm)	40. 70. 4	_	
G.7.6	Supply wiring space	CH NITT WITE WATER	N/A	
G.7.6.1	General requirements	10, 20, 2,	IN/A	



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.6.2	Stranded wire	the transfer of the way	NI/A	
		at the tit is	N/A	
G.7.6.2.1	Requirements	with live are any	N/A	
G.7.6.2.2	Test with 8 mm strand	The second second	N/A	
G.8	Varistors	Will Auth Mun Augh	N/A	
G.8.1	General requirements	No such component	N/A	
G.8.2	Safeguards against fire	i ani an an a	N/A	
G.8.2.1	General	t it it it it	N/A	
G.8.2.2	Varistor overload test	mer mer me m	N/A	
G.8.2.3	Temporary overvoltage test	at let let let	N/A	
G.9	Integrated circuit (IC) current limiters	were the the the	N/A	
G.9.1	Requirements	No such component	N/A	
	IC limiter output current (max. 5A):	in me me in	_	
MALTE	Manufacturers' defined drift:	ex tex strex with an	_	
G.9.2	Test Program	The The The	N/A	
G.9.3	Compliance	TER STEE STEEL STEEL	N/A	
G.10	Resistors	THE THE THE THE	N/A	
G.10.1	General	No such component	N/A	
G.10.2	Conditioning	1 1 3 1 1 1 t	N/A	
G.10.3	Resistor test	TER ALTE MITTERSHIP V	N/A	
G.10.4	Voltage surge test		N/A	
G.10.5	Impulse test	A CHILL SULLEY MALLEYAN	N/A	
G.10.6	Overload test		N/A	
G.11	Capacitors and RC units	CHIEF WALL WALL WALL	N/A	
G.11.1	General requirements	No such component	N/A	
G.11.2	Conditioning of capacitors and RC units	NITE WILL WILL WILL	N/A	
G.11.3	Rules for selecting capacitors	a state of	N/A	
G.12	Optocouplers	The way with w	N/A	
WALTER W	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A	
ZEN .	Type test voltage V <sub>ini,a</sub> :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
10, 10,	Routine test voltage, V <sub>ini, b</sub> :	WILL MULL MULL MULL	_	
G.13	Printed boards	at the set set	N/A	
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A	
G.13.2	Uncoated printed boards	201 201	N/A	
G.13.3	Coated printed boards	TEN STER STER SOLI	N/A	



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20,	IEC 62368-1	very aller when any	10, 10,
Clause	Requirement – Test	Result – Remark	Verdict
m.	W. W. J.	LEW STEE WILL WALL	The The
G.13.4	Insulation between conductors on the same inner surface	Tet Itt Tet	N/A
G.13.5	Insulation between conductors on different surfaces	THE THE THE	N/A
20	Distance through insulation	WILL AUT. AUT. AND	N/A
Et NIER	Number of insulation layers (pcs)	at alt alt of	<i>*</i>
G.13.6	Tests on coated printed boards	The Me Me	N/A
G.13.6.1	Sample preparation and preliminary inspection	t get get liet	N/A
G.13.6.2	Test method and compliance	Mer Mer Me	N/A
G.14	Coating on components terminals	The Life Life	N/A
G.14.1	Requirements ::::::::::::::::::::::::::::::::::::	me me me	N/A
G.15	Pressurized liquid filled components	TER LITER RITER IN	N/A
G.15.1	Requirements	No such component	_ N/A
G.15.2	Test methods and compliance	Et NIET INIE WALL	N/A
G.15.2.1	Hydrostatic pressure test	10 T	N/A
G.15.2.2	Creep resistance test	CLIFE MILIE MILLE	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	Mari M	N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test	The Maria Maria Maria	N/A
G.15.3	Compliance	t st set set	N/A
G.16	IC including capacitor discharge function (ICX)	MULL MULL MU	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
in a	ICX with associated circuitry tested in equipment	Mer Mer Mus	N/A
LTER SOLT	ICX tested separately	LEK LEK LIEK K	N/A
G.16.2	Tests	br me m.	N/A
E WALTER	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	EK WALTER WALTER WALT	an _
WALTER	Mains voltage that impulses to be superimposed on	nites onlies whiles	whit -
INLIEK WA	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	THE STIEF WITTER OF	NITEX -
G.16.3	Capacitor discharge test	11, 21, 22,	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General Andrews Andrew		N/A
H.2	Method A	TEX INCTES MALTE MALTE	N/A
H.3	Method B		N/A



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- 20,	IEC 62368-1	KILL THE THE THE	24 45
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	at the test the	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):	ER TER STER STEEL	. —
H.3.1.4	Single fault current (mA):	y Mr. Mr. An.	_
H.3.2	Tripping device and monitoring voltage	t tex stex stex stex st	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the test states of the	N/A
H.3.2.2	Tripping device	mer mer an	N/A
H.3.2.3	Monitoring voltage (V):	tel tel tel stell stille	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	ie with mur mur a	N/A
CLITER OF	Winding wire insulation:	the test tills at	· —
'th	Solid round winding wire, diameter (mm):	The Me Me Me	N/A
NLTER WILL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MALTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	The State	LIFET TO
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		
TEK .	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	at at telt the	N/A
K.4	Interlock safeguard override	intit muti wat war	N/A
K.5	Fail-safe		N/A
K.5.1	Under single fault condition	Mr. Mr. M. 2	N/A
K.6	Mechanically operated safety interlocks	A THE THE THE W	N/A
K.6.1	Endurance requirement	The Mr. M. A.	N/A
K.6.2	Test method and compliance	TER LIER MITTER MITTE	N/A
K.7	Interlock circuit isolation	Mr. Mr. W.	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	LIET MILITER MILITER MILITER.	N/A
WILLEY	In circuit connected to mains, separation distance for contact gaps (mm):	the secretary and the second	N/A
WALTEK W	In circuit isolated from mains, separation distance for contact gaps (mm):	stiek street states white	N/A



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Clause	Requirement – Test	Result – Remark	Verdict	
NITEK .	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A	
K.7.2	Overload test, Current (A)	MUT, MUT, MY, MI	N/A	
K.7.3	Endurance test	THE THE LITER NUTER	N/A	
K.7.4	Electric strength test	his me me m	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements	74. 24.	N/A	
L.2	Permanently connected equipment	t with original principles and	N/A	
L.3	Parts that remain energized	Will all the sale	N/A	
L.4 J	Single-phase equipment	ALTER MITE WALL WALL	N/A	
L.5	Three-phase equipment	The state of the s	N/A	
L.6	Switches as disconnect devices	LIFE WILL WILL WALL	N/A	
L.7	Plugs as disconnect devices	a state of the	N/A	
L.8	Multiple power sources	e with mit min m	N/A	
JEX	Instructional safeguard	at at the st	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р	
M.1	General requirements		P	
M.2	Safety of batteries and their cells	2 445 24	Р	
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery pack used	RIV.	
M.3	Protection circuits for batteries provided within the equipment	A WITER WITER WAITER WAY	EF P.TE	
M.3.1	Requirements	10 1 2 A B	- P	
M.3.2	Test method	CLIEF WILL MILL WILL	ALL P	
LIFEX WAL	Overcharging of a rechargeable battery	(See appended table Annex M)	UNITED OF	
EK MLTEN	Excessive discharging	(See appended table Annex M)	TEK P	
CLEX	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
All A	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A	
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	WITEH WITE	
M.4			Р	
M.4.1	General	at at the sie	Р	



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-22,	IEC 62368-1	the we want	n dr.
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	PEK MILIEK MILIEK MILIEK
M.4.2.1	Requirements	t at all out of	N/A
M.4.2.2	Compliance	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	where where the text	P
M.4.4.2	Preparation and procedure for the drop test	lite more mer mer	P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	TEX PUT
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	F PE
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	WILL P
M.4.4.6	Compliance	the life	GE P
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	EK PLT
M.5.2	Test method and compliance	The state of the	N/A
M.6	Safeguards against short-circuits	WITE WALTE WALL MALL	n <sub>l</sub> P
M.6.1	External and internal faults	a start set	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	Р
M.7	Risk of explosion from lead acid and NiCd batte	eries	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
14 12	Calculated hydrogen generation rate:	m. m. m.	N/A
M.7.2	Test method and compliance	TEX SITEX MITER MITER	N/A
t et	Minimum air flow rate, Q (m³/h)	24 24 X	N/A
M.7.3	Ventilation tests	et rifet write write wh	N/A
M.7.3.1	General	W 2 2 2 1	N/A
M.7.3.2	Ventilation test – alternative 1	alife alife and and	N/A



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01	IEC 62368-1		N
Clause	Requirement – Test	Result – Remark	Verdict
- CA-	Hydrogen gas concentration (%)	My Aug My M	N/A
M.7.3.3	Ventilation test – alternative 2	LITER NATER MALE MALE	N/A
. dt .	Obtained hydrogen generation rate	The state of	N/A
M.7.3.4	Ventilation test – alternative 3	ALTER MITE WALL WALL	N/A
Et LE	Hydrogen gas concentration (%)	a start	N/A
M.7.4	Marking:	TE WALTE WALL WALL TO	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	The state of	N/A
M.8.2	Test method	OLITE MILE WALL WALL	N/A
M.8.2.1	General	The life life	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):	LIER WALL WALL WALL	31 _ 2
M.8.2.3	Correction factors:	+ A A A	56th -
M.8.2.4	Calculation of distance d (mm)	antit met met m	70,
M.9	Preventing electrolyte spillage	L JEH JEH JEH J	N/A
M.9.1	Protection from electrolyte spillage	MULT AUG AUG AUG	N/A
M.9.2	Tray for preventing electrolyte spillage	AL THE MITTER	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	The last	N/A
10	Instructional safeguard	The Maria August A	N/A
N STEEL	ELECTROCHEMICAL POTENTIALS	of let let liter in	N/A
-20,	Material(s) used:		
0.50	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
	Value of X (mm):	Mur Mr. Mr. Mr.	
P WILL	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS of gift street street	JELL P.
P.1	General	See below	P
P.2	Safeguards against entry or consequences of e	entry of a foreign object	Р
P.2.1	General	m n x	↓ P
P.2.2	Safeguards against entry of a foreign object	MITER WITE WALL AND	√P
LEX.	Location and Dimensions (mm)	No opening.	, 1 <sup>2</sup>
P.2.3	Safeguards against the consequences of entry of a foreign object	Multer Multer Multer Multer	N/A
P.2.3.1	Safeguard requirements	THE STIFF WITH SUNTY	N/A
y antiek	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	et tet tet utet	N/A
	Transportable equipment with metalized plastic parts	un un un un	N/A



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01	IEC 62368-1		N/ 12 /
Clause	Requirement – Test	Result – Remark	Verdict
P.2.3.2	Consequence of entry test:	The The The The	N/A
P.3	Safeguards against spillage of internal liquids	CLIER WILL MILL WHILL	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	WILL MULTER WALL MALL	N/A
P.3.3	Spillage safeguards	and the set of	N/A
P.3.4	Compliance	TEL MALL MALL MALL A	N/A
P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	18 18 18 18 18 18 18 18 18 18 18 18 18 1	N/A
h r	Conditioning, T <sub>C</sub> (°C)	White and any and	
LIER OLI	Duration (weeks)	EK TEK TEK STEK	WILLE WAR
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		N/A
Q.1	Limited power sources	et tet tet diet	N/A
Q.1.1	Requirements	my my m	N/A
NICTE V	a) Inherently limited output	TEX STEE OUTER MAIL	N/A
, t	b) Impedance limited output	The same of	N/A
WELL OUR	c) Regulating network limited output	Let Mile White	N/A
dt d	d) Overcurrent protective device limited output	L it	N/A
- Mr.	e) IC current limiter complying with G.9	LIE MITE WALL WALL V	N/A
Q.1.2	Test method and compliance	the state of the s	N/A
W. C.A.	Current rating of overcurrent protective device (A)	MULLE ANTE MULL AND	N/A
Q.2	Test for external circuits – paired conductor cable	White white white white	N/A
المالية المالية	Maximum output current (A):	TEX TEX TIEX WITER	N/A
٠ .	Current limiting method	w w w	
R	LIMITED SHORT CIRCUIT TEST	TEK LITEK KLIEF MITE N	N/A
R.1	General Williams Williams	No such consideration.	N/A
R.2	Test setup	t alter miter unite and	N/A
1	Overcurrent protective device for test:	71 74 74 74	1
R.3	Test method	WILL WILL MULL MULL	N/A
All A	Cord/cable used for test	a to the	All -
R.4	Compliance	LIE WALTE WALTE WALL TO	N/A
S Jet	TESTS FOR RESISTANCE TO HEAT AND FIRE	a at at at	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
Wer a	Samples, material:	alter white white white	2NUT



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-20,	IEC 62368-1	KILL THE WAY THE	. 20, 4,
Clause	Requirement – Test	Result – Remark	Verdict
- in-	NA/-III the colors of the colo	EL WILL MULL WILL	1/1/2 1/11
- Life	Wall thickness (mm)		- 150 to 150
14 1	Conditioning (°C)	MULL MULL MULL	711. 71.—
LIFEK WA	Test flame according to IEC 60695-11-5 with conditions as set out	TEX STEEL NOTES	N/A
d d	- Material not consumed completely	V. 101	N/A
The sales	- Material extinguishes within 30s	TER WILL WILL MY	N/A
- LEK	- No burning of layer or wrapping tissue	N	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		
TEX.	Samples, material:	L A ST	10th 50th
in m	Wall thickness (mm)	WALLE WALL WALL	mr m-
Cler C	Conditioning (°C)	a de de	TEE TEE
S.3	Flammability test for the bottom of a fire enclosure		N/A
S.3.1	Mounting of samples	at all the	N/A
S.3.2	Test method and compliance	wer me m	N/A
WITE.	Mounting of samples	TEX JEX JIE	- RITE MELLE
- L	Wall thickness (mm):	My An An	- <del></del>
S.4	Flammability classification of materials	At 1 Miller	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	It's write while wh	THE WA
t TEX	Samples, material	1 1 1 1 1	y it is
n,	Wall thickness (mm)	WHITE WHEN WHE	my m
JEE .	Conditioning (°C)	the state of the	JE NE
Ť	MECHANICAL STRENGTH TESTS	MULTE MILL MILL	N/A
T.1	General		N/A
T.2	Steady force test, 10 N:	Very Mer in my	N/A
T.3	Steady force test, 30 N:	et jet liet ni	N/A
T.4	Steady force test, 100 N:	Mr. Mr. M.	N/A
T.5	Steady force test, 250 N:	- JEF STEF MITE	N/A
T.6	Enclosure impact test	211. 211. 21.	N/A
With the	Fall test	SLIER MILE MALIE	N/A
16 <sup>t</sup> 15	Swing test	n a	N/A
T.7	Drop test:	LIET MALIE MALIE W	N/A
T.8	Stress relief test:	at the state of	N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test	A A A	N/A



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

Clause	Trequirement – Test	Itesuit – Itemark	Verdict
The state of	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	TER SITE OLITERADU	N/A
LIEK NI	Torque value (Nm)	No such antennas provided within the equipment.	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General Comment of the second		N/A
MALTER	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsical	ly protected CRTs	N/A
U.3	Protective screen		N/A
V.C.	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General	et let let liet	N/A
V.1.2	Surfaces and openings tested with jointed test probes	The the the	N/A
V.1.3	Openings tested with straight unjointed test probes	MULL MULL MULL MULL	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	at the state	N/A
V.1.5	Slot openings tested with wedge probe	in the m	N/A
V.1.6	Terminals tested with rigid test wire	THE LIFE	N/A
V.2	Accessible part criterion	To ship ship ship	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
الك يريانا	Clearance:	ALTER MITER WALTER WALT	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	a state of	N/A
Y.3	Resistance to corrosion	THE WALL WALL ON	N/A
Y.3	Resistance to corrosion	e at at the	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	Must mer my my	N/A
Y.3.2	Test apparatus	WILL MULTE MULL MULL	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	a state of	N/A
Y.3.4	Test procedure	The write mir mir	N/A
Y.3.5	Compliance	at at all all	N/A
Y.4	Gaskets	MULL MULL MULL MI	N/A
Y.4.1	General	at at all s	N/A



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	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
Me	THE THE CO	The settle will some	The an
Y.4.2	Gasket tests	10 1 ×	N/A
Y.4.3	Tensile strength and elongation tests	NITER WITE WALTE	N/A
	Alternative test methods	In the	N/A
Y.4.4	Compression test	OUTER WHITE WALL OF	N/A
Y.4.5	Oil resistance	1 A St.	N/A
Y.4.6	Securing means	I'E WALL WALL WAS	N/A
Y.5	Protection of equipment within an outdoor enclo	osure	N/A
Y.5.1	General	White Will Mile	N/A
Y.5.2	Protection from moisture	at at the	N/A
71. 74.	Relevant tests of IEC 60529 or Y.5.3:	MULL MULL MULL	N/A
Y.5.3	Water spray test	at let let.	N/A
Y.5.4	Protection from plants and vermin	to me me m	N/A
Y.5.5	Protection from excessive dust	et let liet al	N/A
Y.5.5.1	General	211 211 24	N/A
Y.5.5.2	IP5X equipment	TEN THE STEE	N/A
Y.5.5.3	IP6X equipment	Mr. Mr. Mr.	N/A
Y.6	Mechanical strength of enclosures	LEE MITTE	N/A
Y.6.1	General	7 1	N/A
Y.6.2	Impact test:	TE LITE MIT WA	N/A



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in m	711, 711, 71	IEC 62368-1	ITER MITE WALL ON	Vr. Ou	21/2
Clause	Requirement – Test	MUE, THE IN	Result – Remark	et d	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\_1E

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

Master Attachment...... 2021-02-04

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	CENELEC COMMON MODIFICATIONS (EN)	Lies while while my	Р
WALTER O	Clause numbers in the cells that are shaded light g IEC 62368-1:2020+A11:2020. All other clause num those in the paragraph below, refers to IEC 62368-Clauses, subclauses, notes, tables, figures and and those in IEC 62368-1:2018 are prefixed "Z".	bers in that column, except for 1:2018.	P.
NIT WITE	Add the following annexes:  Annex ZA (normative)Normative references to interr corresponding European publications	national publications with their	Р
	Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code des	signations for flexible cords	
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure  Replace 3.3.19 of IEC 62368-1 with the following definitions:		N/A
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.	Not such equipment	N/A
3.3.19.3	sound exposure, E  A-weighted sound pressure ( $p$ ) squared and integrated over a stated period of time, $T$ Note 1 to entry: The SI unit is Pa² s. $T$ $E = \int_{0}^{T} p(t)^{2} dt$	TEX MULTER WILLER WALTER WILL  AND TEX MULTER WALTER WILL  AND TEX TEX TEXT	N/A



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in.	W. W.	IEC 62368-1	11/2 11/2
Clause	Requirement – Test	Result – Remark	Verdict
ale	Mr. Mr.	L TER ITER SLIFE WITH SINCE	are are

3.3.19.4	sound exposure level, SEL	24, 24, 2	N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E</i> <sub>0</sub> , typically the 1 kHz threshold of hearing in humans.	united anited anited anite	MALTE
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	riter mark mark mark	70 K
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	er muit muit muit w	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	white white whit wh	- VITER
3.3.19.5	digital signal level relative to full scale, dBFS	Write Murr August August	N/A
ex murex	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	TEE WALTER WALTER WALTER	neriek we
Whitek W	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 level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	MALIER WALTER WALTE	ANNLIEK WALTEK
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources		N/A
	Replace 10.6 of IEC 62368-1 with the following:		te and
10.6.1.1	Introduction	Not such equipment	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	White white white white	dantilek antilek artilek
	<ul> <li>is designed to allow the user to listen to audio or audiovisual content / material; and</li> <li>uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and</li> </ul>	Whitek whitek whitek whi	EK MUTEK
	<ul> <li>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</li> </ul>	Wiley Miles Miles Miles	WILL A
	continuous use (for example, on a street, in a subway, at an airport, etc.).	TEX WITTER WITTER WITTER	in's an
	EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.  Personal music players shall comply with the	Whitek whitek whitek wh	il while
	Perconal mileic players chall comply with the		A 100



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
21/20	White the state of	the wife with whi.	The Marie
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	1 1 1	TEX TEX
	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, manufacturers are encouraged to implement 10.6.5 as soon as possible.	untile while while	ant. Whitek an
	Listening devices sold separately shall comply with the requirements of 10.6.6.  These requirements are valid for music or video mode only.	ek whitek whitek whit	ex uniferuntifi
	The requirements do not apply to:  – professional equipment;	Aug Aug Aug	LET TEX
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	Miles Militer Miles of	iner iner an
	hearing aid equipment and other devices for assistive listening;      the following type of analogue personal music	X WHITEX WHITEX WHITE	* WILL SAUTE
	players: • long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and • cassette player/recorder;	Whitek whitek whitek	White White
	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.	TE WHITE WHITE WHI	EX MAJEX WAS
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>	Whitek whitek whitek	WALTE WALTE
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	antit while while w	itek mitter m
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	It waited waited wait	et while whi
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	NITER WITER WAITER	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).  For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-	t let liet will	NITEK MITEK WA
WITEK N	held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	TEX TEX TIES	WILLER WILLER



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IEC 62368-1				
Clause	Requirement – Test	in with the m	Result – Remark	Verdict

10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1 N	General 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.	Not such equipment	N/A
	For classifying the acoustic output $L_{\text{Aeq}, \tau}$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	Whitek whitek whitek whi	rie Aurie
	For music where the average sound pressure (long term $L$ Aeq, $\tau$ ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, $T$ becomes the duration of the song.	TEX WHITEK WHITEK WHITEK	MILITER OF
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{\text{Aeq},7}$ ) 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.	Whitek wh	TE WHITE WALTER WASTER
10.6.2.2  UNLITER WALTER  WALTER  WALTER  WALTER	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 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	JUNITER WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  WHITER WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER  WHITER WHITER WHITER	



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10,	IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
The s	W W THE ST	ET OLIF MILL SUNL	Mr. Mr.		
10.6.2.3  MILITER MILITER  MILITER MILIT	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 <i>L</i> Aeq, <i>T</i> 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.	Whitek wh	INTER AND INTER		
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	WALTER WALTER	M/A		
10.6.3	Classification of devices (new)	At The state of	N/A		
10.6.3.1	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.	Not such equipment	N/A		
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following:  - for equipment provided as a package (player	MILIER WHITER WHITER	N/A		

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  $L_{Aeq}$ ,  $\tau$  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. 10.6.3.3 RS2 limits (new) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player)



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
WILLER WA	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.	JUNITER WHITER W	ALTER WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
10.6.4	Requirements for maximum sound exposure	Tie Muri Aur Mur	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	Not such equipment	N/A
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable.  Protection of persons	it itet i	N/A
er white	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	The mark white	
	NOTE 1 Volume control is not considered a safeguard.	White White White	Mur. Mur.
	Between RS2 and an <b>ordinary person</b> , the <b>basic safeguard</b> may be replaced by an <b>instructional safeguard</b> in accordance with Clause F.5, except that the <b>instructional safeguard</b> shall be placed on the equipment, or on the packaging, or in the instruction manual.  Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	united whited united united	EX WITEX W
	The elements of the <b>instructional safeguard</b> shall be as follows:	Whitek muliek whitek	UNLIEK WALTER
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	Whitek Murtek Murtek Mir	TEX MILEX
	wording  - element 4: "Do not listen at high volume levels for long periods." or equivalent wording	MULTER WHITER WHITER	white white
		1	15



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	IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
alle.		The Will all the	11/2 211	
	of an <b>ordinary person</b> to an RS2 source without	70	A 15	
	intentional physical action from the <b>ordinary</b>	THE THE THE	WILL WILL	
	person and shall automatically return to an output	will my my	20	
	level not exceeding what is specified for an RS1	20	A St	
	source when the power is switched off.	Let 1st 5th 5	The State of	
	The aminorate hell and idea and a second	Fig. Mer. Av. M.	2	
	The equipment shall provide a means to actively	1 4 4	* 4	
	inform the user of the increased sound level when	Et The Item Str	100	
	the equipment is operated with an output	me me in	20.	
	exceeding RS1. Any means used shall be		_U _U	
	acknowledged by the user before activating a	TEN LITE STILL	were with	
	mode of operation which allows for an output	The The The	20	
	exceeding RS1. The acknowledgement does not	1 1	Lit Lit	
	need to be repeated more than once every 20 h of	TEN LIEN SLIVE	VEL MALL	
	cumulative listening time.	The Mr. M. W.		
	NOTE 2 Examples of means include visual or audible signals.	+ + +	CEL TEL	
	Action from the user is always needed.	THE SLIP WITH WAL	211, 211	
	NOTE 2 The 20 h listening time is the commutative lists with	20, 20, 20	J	
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal	L St St St		
	music player has been switched off.	The street of the street	21/2	
	It It THE THE LIFE WAS WAR	20, 20, 2	4. 4.	
Write W	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	LIER SLIER SPLIER	WALTER WALTE	
10.6.5	Requirements for dose-based systems	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
0.6.5.1	General requirements	Not such equipment	N/A	
	Personal music players shall give the warnings as	2 12 2		
	provided below when tested according to EN	1 1	it the	
	50332-3, using the limits from this clause.	THE SITE WITH SING	40 40	
	THE THE THE WALL WALL AND	24. 25. 2	1. 2	
	The manufacturer may offer optional settings to		JE LIE	
	allow the users to modify when and how they wish	WITE WILL WALL	21/2	
		10, 20,		
	to receive the notifications and warnings to		4	
	to receive the notifications and warnings to promote a better user experience without	at at let	STEK STEK	
	promote a better user experience without	NUTER MULTER WALTER	NLTEK WALTER	
		UNITER WHITER WHITER	nitek whitek	
	promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their	UNITER WHITER WHITER W	nutek unitek	
	promote a better user experience without defeating the safeguards. This allows the users to	Whitek whitek whitek wh	INLIEK WALTER	
	promote a better user experience without defeating the safeguards. This allows the users to be 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,	unliek whilek whilek wh	nifek whitek	
	promote a better user experience without defeating the safeguards. This allows the users to be 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	MUTER WHITER WHITER WH	nifek whitek	
	promote a better user experience without defeating the safeguards. This allows the users to be 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	Whitek whitek whitek whitek	nutek unitek sek witek wi	
	promote a better user experience without defeating the safeguards. This allows the users to be 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	Whitek whitek whitek whi	INLIER WALTER	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.	United Whitek	INLIER WALTER  JUNE STEER WALTER  JUNE STEER  JUNE STEER	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  The personal music player shall be supplied with	Whitek	INTER WATER  JUNE WATER  WATER  WATER  WATER  WATER  WATER	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  The personal music player shall be supplied with easy to understand explanation to the user of the	Whitek	INTER WALTER  JUNE WALTER  WAL	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and	Whitek wh	INCIENT WALTER  JEK WILTER  WALTER  WA	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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	Whitek wh	INLIER WALTER  JUNE WALTER  JUN	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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	Whitek wh	INLIER WALTER	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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	Whitek wh	INLIER WALTER  JEK W LIER WALTER  WALT	
	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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	Whitek wh	INTER WALTER  JEK WILLER  WALTER  WALT	
TEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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.	Whitek wh	neight uneight	
TEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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.  Dose-based warning and requirements	JANUTER WALTER WALTER WAS	TEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	
TEEL WALLES	promote a better user experience without defeating the safeguards. This allows the users to be 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.  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.	UNLIER WHITER WH	nifet unifet uni	



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21,	IEC 62368-1	LIL WILL WALL WALL	771. 12.
Clause	Requirement – Test	Result – Remark	Verdict
an.	asknowledgement. In case the user deep not	White Mary Mary	The An
	acknowledgement. In case the user does not acknowledge, the output level shall automatically	1 4 4	LET LET
	decrease to compliance with class RS1.	LIER SLIE WITE	Will Mar
	a ex rex iter still with whi	24/2 24 24 24 1	
	The warning shall at least clearly indicate that	at at the	TER LITE
	listening above 100 % CSD leads to the risk of	THE MULL WALL MAY	2, 2,
<del>!</del>	hearing damage or loss.		. الحال ا
0.6.5.3	Exposure-based requirements	EX LIER ALTER MLTE	N/A
	With only dose-based requirements, cause and	24 24 24 25	
	effect could be far separated in time, defying the	at the set	TE SITE
	purpose of educating users about safe listening practice. In addition to dose-based requirements,	THE WALL WALL	21/2
	a PMP shall therefore also put a limit to the short-	3	at let
	term sound level a user can listen at.	TEK STEK STEK O	Lite Milit
	I to get get need only	ne me me	
	The exposure-based limiter (EL) shall	at at at a	Ell TELL
	automatically reduce the sound level not to exceed	LIE WILL MALL WALL	211, 21,
	100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.	70.	
	The EL settling time (time from starting level	et the the still	THE WALL
	reduction to reaching target output) shall be 10 s	The Me in	70
	or faster.	the state of	TEX TEX
		alter with walk y	We are
	Test of EL functionality is conducted according to		* st
	EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its	LET STIFF OF	The Party
	listening device), the level integrated over 180 s	- 1 2n 2n	
	shall be 100 dB or lower. For equipment provided	* * * * * * * * * * * * * * * * * * *	the State of
	with a standardized connector, the unweighted	TER WILL MULT MULT	211 211
	level integrated over 180 s shall be no more than	20, 2,	11- 18
	150 mV for an analogue interface and no more	- TELL STEP STEP	WILL WILL
	than -10 dBFS for a digital interface.	The Mer Me	10
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	TEX TEX TEX	ALTER MALTER
0.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A
	With 94 dB LAeq acoustic pressure output of the	5 M. M. M.	
	listening device, and with the volume and sound	at the till	- J 6
	settings in the listening device (for example, built-	SOUTH WALL WALL	21/2
	in volume level control, additional sound features like equalization, etc.) set to the combination of	1	
	positions that maximize the measured acoustic	TER STEE STEE	WELL SUPER
	output, the input voltage of the listening device	Mus Mr. M.	
	when playing the fixed "programme simulation	at at at	TEN STEE
	noise" as described in EN 50332-1 shall be ≥ 75	WITE WILL WALL MY	471
	mV.		* J.
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	TEX STER WITER WITE	THE THE
0.6.6.0	and 27 mV or 100 dB and 150 mV.	20, 20, 20,	N1/A
0.6.6.2	Corded listening devices with digital input	t THE LITTER STIFE	N/A
	With any playing device playing the fixed "programme simulation noise" described in EN	Mr. Mr. M.	2,
	50332-1, and with the volume and sound settings	at at at	TEN LIEN
	in the listening device (for example, built-in volume		21/2



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	IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
Whitek Whit	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the <i>L</i> Aeq, <i>τ</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	MILE WHITE WHITEK WHITEK	on lifet on
10.6.6.3	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, τ acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	TEX WHITEX WHITE	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A
10.6.6.4	Measurement method  Measurements shall be made in accordance with EN 50332-2 as applicable.	White white white whi	N/A
3	Modification to the whole document		Р



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76, 11, 17,		30 - 1-9 - 1 - 1 - 1		
1, 20		IEC 62368-1		
Clause	Requirement – Test	MUE, M. C.	Result – Remark	Verdict

	Delis		"country" note	s in the refe	rence docume	nt according	to the following	P
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	20
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	Julia .
	.y.	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	C.E.F. WI
	ی	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	× 5
	411.	Table 13						21/2
	NETE	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MITER
	SEK 3	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	N.I.E.K.
	, n	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	LEX WILL
	MUZI	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	MALTE
	Tq.	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	CIEN
	t	Y.4.5	Note					sh.
المال	, J.	27			AT AV		10 M	1500
	M	odification	to Clause 1					Р
NLT.	NO ele		ring note: e of certain substa ent is restricted w			MULTER WALT	e white whit	WP
	м	odification	to 4 71					Р



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The Maria	The Alexander	IEC 62368-1	TEL OLIER WHITE WA	rie Murie Mirrie
Clause	Requirement – Test	The Marie Mr. M.	Result – Remark	Verdict

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
antiek white white whitek whit	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	mains mains	SUPLIFIES OF THE SUPLIF
c white	providing protection in accordance with the rating of the wall socket outlet.	te stile with wife we	NIA
6	Modification to 5.4.2.3.2.4		N/A
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.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A



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- Mar	IEC 62368	3-1 of and and	
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph:	Will Mill Mill Mill	N/A

	C 1		
The same	The state of	The street of the state of the	- ap.
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	Whitek Whitek Whitek Whitek	N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or 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.	LIEK WHITEK WHITEK WHITEK WHITEK WHITEK	Marie wh
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	Miles Whites Multer Whites	MUTTE M
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	TEK WILTER WILTER WILTER	EF WALTER
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Whitek whitek whitek	MALTEX W
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	in the write writer we	IEK WILL
LIEK	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	the set of the st	L SLIEN
9	Modification to G.7.1		N/A
G.7.1	Add the following note:  NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	UNLIEK WALTER WALTER	N/A
10	Modification to Bibliography		P



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Life Military	Mr. Mer All A.	IEC 62368-1	ITEK INLIEK WILLER WIN	Anti Mili
Clause	Requirement – Test	Aller, Aller An	Result – Remark	Verdict

ale		201
, et	Add the following notes for the standards indicated:	P
WILLEY WI	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-31 NOTE Harmonized as EN 61643-31. IEC 61643-331 NOTE Harmonized as EN 61643-331.	Whitek whitek
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15  ONLITE WALLES OF THE STATE OF THE ST	Denmark, Finland, Norway and Sweden  To the end of the subclause the following is added:  Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.  The marking text in the applicable countries shall be as follows:  In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."  In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"  In Norway: "Apparatet må tilkoples jordet stikkontakt"  In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A  SEE SUBSTITUTE  SUBSTITUT
4.7.3	United Kingdom  To the end of the subclause the following is added:  The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A



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1101010110011	10.1. TV 11 20D 1 1200 101 1	1 age 21 51 51		
- an		IEC 62368-1		
Clause	Requirement – Test	The Mary My May	Result – Remark	Verdict

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	White
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	street waters waters waters	WALTEK W
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	es unite unite unit u	ne was
	For separation of the telecommunication network from earth the following is applicable:	multer mult mult mi	t TEX
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	united white white white	JUNE .
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	the main main was .	511 EX
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	MITEL WILL MILLER WILL	EK MUTIEK
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound	MULTER MILIER	Whitek o
	completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Whitek whitek whitek wh	ing murit
	passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	UNLIEK WALTER WALTER WALTER	White w
	and white white white white white	at the the there	NI EK NIVÎ
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	WILL MULES WILLES WAS	IEY WALTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	WILLER MUTTER MUTTER MUTTER	- JALTEK V
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE WALTER WALTER	un'il un' LIFX unlif
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	TELY STEEL STEEL SOLE	EX WILLEX



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20,	IEC 62368-1	in the way when	20, 20.
Clause	Requirement – Test	Result – Remark	Verdict
all's	THE	ALL METERS AND	The The
MALTEK MI	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE STIER STIER OF	NITEK MALTEK
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	united whites whites whi	TEX WITEY
iek whiter	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.	EX WHITEK WHITEK WHITE	Auri Ex Mu
5.5.2.1	Norway	t let litt liter	N/A
	After the 3rd paragraph the following is added:	Mur Mur Mr.	it let
ALEX AL	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MILLER MILLER WALLER WA	er ler
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	of street sources sources	WALLEX MAL
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	Whitek Myriek Murek A	MITER WAITER
5.6.1	Denmark	No such equipment.	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:	THE WALTER WHITER	unite unit
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WHITEK WHITEK W	ALTE MALL
5.6.4.2.1	Ireland and United Kingdom	at at all a	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:	itte mit mit mit	- 16t v
	<ul> <li>the protective current rating is taken to be 13</li> <li>this being the largest rating of fuse used in the mains plug.</li> </ul>	" WALTER WALTER WALTE	MUE AUT
5.6.4.2.1	France	TER STEE STEE	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	whitek mittely whitek wh	Tet Miter
5.6.5.1	To the second paragraph the following is added:	The main way	N/A
MULTER	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 <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	MULTER WILLER WILLER	MITH WILL



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The Maria	IEC 62368-1			
Clause	Requirement – Test	Net when my my	Result – Remark	Verdict

5.6.8	Norway	14, 14, 14	N/A
white was	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	united whited whited whi	EK WALTEK W
5.7.6	Denmark To the end of the subslaves the following is	Mr. M. M.	N/A
witex w	To the end of the subclause the following is added:  The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Miter white white	uni unitet.
5.7.6.2	Denmark	TEX SITER WITER WALL	N/A
ik Writek	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.	and the substitute of the	MULTER MILE
5.7.7.1	Norway and Sweden	Not such system.	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.  It is however accepted to provide the insulation external to the equipment by an adapter or an	TEL WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER	The Mark on the Mark of the Ma
	interconnection cable with galvanic isolator, which may be provided by a retailer, for example.  The user manual shall then have the following or	LIEK WALTER WALTER WALT	ek water w
	similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	of white white white	WALL MATER
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	WILE MUTER WHILEY AND	TEK WITEK
	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)"	TEX MATER MATER MATER	while while



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22.	IEC 62368-1	is into the silver	n dr
Clause	Requirement – Test	Result – Remark	Verdict
1900	M. A. J.	The City of the Control of the Contr	1/1/2
unliek un	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.	NITER WITER WATER WHITE	* WALTEX
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sites mites whites whites	JUNITEK DI
	"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."	MULIER MULIER MULIER M	icek whi
ne vinitely, vinitely,	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."	TEX WHITE WHITE WHITE WHITE WAS AND THE WHITE WAS TEXT OF THE WAS TEXT.	un it est oun it seet oun it s
3.5.4.2.3	United Kingdom	No external circuits.	N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  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.	TE MILE WHITE WHITE	watek w
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
B.4 Ne on it is the second of	The following is applicable:  To protect against excessive currents and short-circuits in the primary circuit of <b>direct plug-in equipment</b> , 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 <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	mains	t whitet we street was
G.4.2	Denmark	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	VINITER V
	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.	LEE MALTER MALIER WALTER	n <sup>tex</sup> wh
	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	White white white wh	* WHITE!



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100	IEC 62368-1	is the way on a	200
Clause	Requirement – Test	Result – Remark	Verdict
april	The the the the	the city with the way	11/1
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	TEX TEX STEEL WITH	MALTER
	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.	STEK WHITEK WHITEK WHITEK	WALTER WAL
	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.	MILITER WHITER WHITER WHITER	E WALTER
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEX MUTER MUTER MUTER	un liek win
	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	ATER WITER WITER WITER	ir ik wnir K
	Justification: Heavy Current Regulations, Section 6c	WITE MITEL	MITEK
G.4.2	United Kingdom	Not directly connected to the	N/A
WALTE	To the end of the subclause the following is added:	mains	NIEMAN
MILITER OF	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Whitek whitek whitek whitek	se white whites a stress w
G.7.1	United Kingdom	e at at at	N/A
	To the first paragraph the following is added:	The mile mile me	7/1/2
	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.	JUNITER WHITER WHITER WHITER	WALTER OUR
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	et whitet whitet whitet	Trit until



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Life Military	IEC 62368-1				
Clause	Requirement – Test	Aller, Aller An	Result – Remark	Verdict	

21,	The state of the s	The wall of the wall	10.
	Ireland  To the first paragraph the following is added:  Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State	Whitek wh	N/A
- Lest	which is equivalent to the relevant Irish Standard		- JEt
G.7.2	Ireland and United Kingdom  To the first paragraph the following is added:  A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.	Whitek whitek whitek whitek	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2 IF	Germany The following requirement applies:  For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.  Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.  NOTE Contact address:	No CRT within the equipment.	N/A  WALTER  WALTER  WALTER  WALTER
ZD	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de  IEC and CENELEC CODE DESIGNATIONS FOR I	ELEVIPLE CORPO (EV)	P



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1. Mr.	74 24 2 T	IEC 62368-1	LIER WITE WALLE	ang an	4115
Clause	Requirement – Test	MULL MILL M	Result – Remark	alt d	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords	l	
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 con	d 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		<del>1</del> ):
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed co	rd 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	7	
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated an sheathed flexible cords	nd	H05Z1Z1-F H05Z1Z1H2-



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IEC 62368-1 LIFE MALE WALL WALL WALL WALL WALL WALL WALL W					res mes mes
	Clause	Requirement – Test	in the man	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy source	es			P
Supply	Location (e.g.	Test conditions		Paramo	eters	·	ES
vollage	Voltage circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
5VDC Input circuit	Normal	5.0VDC	n -2,	SS	DC	ES1	
	Input circuit	Abnormal	Jak J	TER TRITER	10 11 11 W	Vr. 2000	Mer
- WALLER W	NI ERPORTIE	Single fault – SC/OC	- Cir - Ci	* Tet	JEK- 194	EX -IEX	WALTEK.
<i>*</i>	CEL TEL STEE	Normal	4.2VDC	10, 71	SS	DC	ES1
4.2VDC Battery	Battery	Abnormal	11th - 11th	TIE VI	17 JT-LITE	WALL AND	ry. M
TEK MITE	Lauriek whitek	Single fault – SC/OC	71/2 11/2	TEK TEK	LIEX	INLTE MINL	EK WALT

## 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.
  3) Test Conditions:

  Normal –Full load and no load.

  Abnormal Overload output

SC= short circuit; OC= open circuit

	rement		N/A
RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
n n_	at tet a	et the	LIER MITER JULIE MALL
TE NITER WAL	MIT OUT	21, 21,	- + + +
	(V)	(V) (V)	(V) (V) (Hz)

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics				
Method		: ISO 306 / B50	MITE MIT -	
Object/ Part No./Material Manufacturer/trademark		Thickness (mm)	T softening (°C)	
-mer mer me m	The set of	A STEP WITE OF	the wife - wife a	
Supplementary information:				
NE THE ME OF	The state of the state of	LIEF OLITE MALI	They are an	

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						N/A	
Allowed impression diameter (mm)						_	
Object/Part	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	Imp diame	ression eter (mm)



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IEC 62368-1									
Clause	Requirement – Test	Result – Remark	Verdict						
n.	THE THE STATE OF	Et eter ett met met me	in the						
<sub>LE</sub> +	TEX ITEX TEXT MITE WHILL WIN	71, - 7, - 7-	et - 1et						
Suppleme	ntary information:								
J+	tex tex ster with mile unit	Am an at	- Let						

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
- mite unit was war	46	dn.	- ,	<del>-</del> st	All I	56t	EK TITE	MIZE.

Supplementary information:

- Only for frequency above 30 kHz
   Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2	TABLE: Minimum	N/A			
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)
	SER SER SE	WILL WILL MAN	141 - 251		et - et
Supplemen	tary information:				
*See also s	ub-clause 5.4.4.9	A JUNE OF			et let i

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz						N/A
Insulation material	<b>E</b> P	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
WILL MULL AND AND	- Mr.	- 4	# 11	-TEK TE	- NITER OF	CE MALTE
Supplementary information:						
WILL WILL WALL MAN	24	, ,,,,,,,,		CENT SEPT	JEE RE	and a

5.4.9	TABLE: Electric strength tests	at it ist	TEX LIEK ALT	N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	TEX LIFE OLIVE WILL WAL	211, 211, 211,	1 1 1	Let Let
-41/5 AU	The The Test	TEK STEK MITE	- write while of	V. 11. 1
Basic/supple	ementary:	21/2 24 22	A 11 1	cet set si
Tr. Mr.	THE TEXT	TIER WILER WILLE	while must me	no m
Reinforced:	ALTER MILE WALL MILE OF	1, 1, 1	at at d	t TEX TE
- 7/1	The state of	Et NITER WITE W	The Maria Maria	2/1, - 21
Routine Tes	ets:		et set set	SLIFE SLIFE
- 20, 2	A A 1st 1st wife	- WILL MULL MUL	- mr mr.	29, 20,
Supplement	ary information:			



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L. Mr.	M M W	IEC 62368-1	ir, aur aur
Clause	Requirement – Test	Result – Remark	Verdict

5.5.2.2	TABLE:	Stored discharge of	on capacitors			N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
an -	74, 1		Normal	TER WITE V	Will Har.	m -m
- WALTER -	NITEK W	IER WHITE WHITE	Single fault: SC/ OC	t set s	JEK TEK NI	LIEK WALTER

### Supplementary information:

X-capacitors installed for testing are:

[] bleeding resistor rating:
[] ICX: 1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

5.6.6 TAE	BLE: Resistance of p	rotective conduc	ctors and terminati	ons	N/A
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
7, ,		- <u>1884 NOU</u>	1612 - 1917 1	L 71 21	-
Supplementary ir	nformation:			,	
	Y A Y // ¿A	TE MILL	70. 7	14 20 m	- L

5.7.4	TABL	E: Unearthed accessible parts						
Location		Operating and	Supply	F	Parameters		ES class	
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)		
L/N to secondary terminals		Normal	J# 10	t the the	THE MALTE	Mr.	" - " "	
		Abnormal: overload	muss - mus	an - an	ITEK SITEK	WITE N	PLIEK-	
		Single fault: SC/ OC	LIER WALLE	nur -nur .	in in	TEX-	SEK - WITE	

Supplementary information:

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	sible conductive part	at at	N/A	
Supply volta	age (V)	- BY JEH JEH	LIFE OLIFE N	ULL WALL OF	_
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye			
Power Distr	ibution System	[] TN [] TT [] IT	Elt STEE IN	it while whe	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt
- 20, 1	a sk sk s	ex alter mit unit	mr mr	24, 24,	4.
Supplemen	tary Information:				
21, 20,		· If all all and a	UNLL WILL	me me	10 - 20



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W. Mr.	Mr. Mr. A.	IEC 62368-1	They are an
Clause	Requirement – Test	Result – Remark	Verdict

5.8	TABLE	5.8 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						
- m	12.	. <del>↓</del>	et let tet	write war	in the	7 Tale.	44 - 44						
Supplemen	tary infor	mation:											

6.2.2 TABLE: Power source circuit classifications										
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class				
5V Input circuit	Pin + to -	5	_1	- <del>, , ,</del> +	√ 3S√	PS1				
Battery	Output pin + to -	3.01	5.5	16.5	5S	PS2				

### 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: Determ	ination of Arcing PIS	in with white	Mr. M. W		N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		eing PIS? es / No
Jet Jet	R' A' /	1 100			-	16 <u>14</u> (1717)
Supplement	tary information:					
* 16th	TER STEE ON	ic with any	in 2	a at at	26	t TEX

6.2.3.2	6.2.3.2 TABLE: Determination of resistive PIS								
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No					
All primary circuits/com	nponents	AND THE STEEL STEEL	Julies and test and test and	Yes (declaration)					

#### Supplementary information:

All circuits are considered as resistive PIS;

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

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

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

8.5.5 TABLE: High pressure lamp									
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No				
7/6 1/11	70 1	- it it it	E CLIE WILL	Will Are a	1. 10 m				



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The Murit	All All All	IEC 62368-1	LIET MITER WALLER W	Vice Mail My
Clause	Requirement – Test	Will Mill My M.	Result – Remark	Verdict

				1,754,3						
Supplementary information:										
me, me m. m.	20	*	ot-	C. C. E.	NITER.	MITE	WITE	Mer	ALL	ah.

9.6 TABL	E: Temper	ature mea	suremer	nts for wirel	ess power	transmitte	ers	N/A	
Supply voltage (V)			gri	in Mr.	me n	1. 10.	7.	_	
Max. transmit pow	er of transn	nitter (W)		- LEX	TEK N	TEK MITE	WALTER	_	
w/o receiver and direct contact				ceiver and t contact	with receiver and at distance of 2 mm		with receiver and distance of 5 mr		
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
1. 2.	L - H	754	TEX-	NIE JULIE	anti.	165 - 216	741	40 0	
Supplementary information:									

5.4.1.4, 9.3, B.1.5, B.2.6	ABLE: Tem		JEX MITEL					
Supply voltage	∍ (V)			5V (Fully dischargin g battery and speaker working)	5V (Charging for fully dischargin g battery)	Battery (Max available power speaker	THE WALTE	_
Ambient temp	erature durin	g test T <sub>amb</sub>	(°C):	25.0	25.0	25.0	-	_
Maximum mea	asured tempe	erature <i>T</i> of	part/at:		T (°C	;)		Allowed T <sub>max</sub> (°C)
PCB near U1	Mrs. M	. 24	.4	65.3	42.8	60.3	NIE -NI	130
C1_	All S	EK LITEK	MALTE	75.9	34.1	70.9	,	105
DC connector	ne m	10		42.2	36.0	41.6	ie. Waite	Ref.
PCB near U2	TEX TEX	CLIER	ال ستات	55.8	39.1	51.7		130
Battery	20	20, 0	A 4	44.7	37.3	39.5	11/12 1	60
Battery wire	It WILL	CLIFE NA	ic mer	51.8	39.5	46.5		80
Speaker wire	24, 2	4 4	L LE	54.7	29.8	49.3	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	80
Enclosure insi	de near batt	ery	an	33.7	33.2	31.3	Jet - 16	Ref.
Enclosure Out	side near ba	ttery	. CES	31.0	35.8	29.5	740	77
Button	NITER MITE	WILL	10, 1	38.1	28.0	35.6	# - CE*	₹77 J
PCB near LED	PCB near LED				31.1	38.8	4117	130
Ambient	Ambient				25.0	25.0	104	CIEN -CIEN
Temperature winding:	Γof	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
21cr 21/2	20 20		-et	Text 1	5E* (1'E'	The state of	10 - 30°	215. 24



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Lite Mail	Mrs. My All Mrs.	IEC 62368-1	ITEK MLTEK WILLER WI	Tip Mail Mil.
Clause	Requirement – Test	ALL ALL AND	Result – Remark	Verdict

#### Supplementary information:

- \* Temperature limit for TS1 of accessible enclosure according to Table 38 to be measured at normal ambient temperature.
- Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 25°C.
- Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1.
- 1. Battery charging temperature upper limit is 60°C

B.2.5	T	ABLE: Inp	out test	Mr. 2	10. 2.		<i></i> ≠	at the text of Per
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC	, J	0.8	CEL 1	4.0	- WILLER	WALTER	WALTE	Powered by 5VDC with empty battery (at battery charging mode)
4.2VDC		1.027	10 TEX	JEK JEK	WITEH .	uni <del>ze</del> ik	UNITER O	(Discharging mode with fully charged battery)

### Supplementary information:

The maximum measured current under rated voltage did not exceed 110% of the rated current.

B.3, B.4	TABLE: Abnor	mal operatin	g and fau	It condit	ion tests		Р
Ambient ten	nperature T <sub>amb</sub> (	°C)			: See b	pelow	_
Power source	ce for EUT: Man	ufacturer, mo	del/type, d	outputrati	ng:	in in	_
Componen No.	t Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observatio	n
Speaker	SC	4.2	30min	alliter.	LIEK - NIE	Speaker no voice, no hazard.	damage,no
Powered by	5VDC with emp	oty battery(at l	pattery ch	arging m	ode)	at the set	LIEN
U4 pin 4-5	sc	5VDC	10mins	iek gori	WALTE.	Unit shut down, no da hazard.	maged, No
U4 pin 4-3	sc	5VDC	10mins	y Wille	WILLER AND	Unit shut down, no da hazard.	maged, No
Powered by	Li-ion Battery (I	Discharging m	node with t	fully char	ged battery)	EX NITER INITER ON	TIP WILL
B- to P-	sc	4.2VDC	10min	m	14 - 24 14 - 24	Unit normal working, idamaged, No hazard.	
Sunnlement	ary information:	•					

#### Supplementary information:

1) Supply by external DC source, 2) Measured battery cell voltage and current.

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

- 1) s-c: Short-circuited; o-l: Overloaded; BL=Blocked.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.



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100	M. M. M.	IEC 62368-1	LIER UNLIER WALLE WAL	Mr. Mr.
Clause	Requirement – Test	Mer. Mr. M.	Result – Remark	Verdict

M.3	277	tection circuits for batteries provided vertery in a reverse polarity position?						ele .	11 11/20	P	
io it possibio	to motan tro		77010	o polarity r		harg	ina				
Equipment S	Procification		\/0	Itago (\/)		ilaiy	ii ig		Current (A)		
Equipment	pecification	'91. 2n.	V O	Itage (V)		- 4-		N .	75 AV		
			d	5	150	5 E.		166.	1,11	14. 14	
Battery spe					/ spe	cificat	tion				
		Non-recharge	eable	batteries			Rec	hargeab	le batteries		
		Discharging		ntentional	(	Charg					
Manufacturer/type		current (A)		harging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	Reverse charging current (A)	
Electronic 7 Co., Ltd	Dongguan Baijiaying 4.2 Electronic Technology Co., Ltd / 18650 1800mAh		4.2		uni	1.8	1.8	ovalie <u>k</u> Sliek			
Note: The te	sts of M.3.2 a	re applicable o	nly v	when abov	e appropr	iate d	lata is	s not ava	ilable.		
Specified ba	ttery tempera	ature (°C)				:		All the	10-45	(C)	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp.		rent A)	Voltage (V)	Obs	ervation	
Battery	B- to P- SC	Charge	ge 7h		NIE!	0	.8	0		Unit normal working. No damaged, no hazard.	
Supplementa	ary informatio	n:								( )	

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	Charging sat	Charging safeguards for equipment containing a secondary lithium							
Maximum	specified c	harging voltag	e (V)			4.2	WILL WILL	_		
Maximum	specified c	harging currer	nt (A)	201	:	1.8	at at	_		
Highest s	pecified cha	rging tempera	ture (°C)		(1)E	60	VILL AND AND			
Lowest sp	ecified cha	rging tempera	ture (°C)	10 2	:	0	at all di			
Battery		Operating	Measurement				Observat	ion		
manufactu	urer/type	and fault condition	Charging voltage (V)	Charging current (A)		Temp. (°C)				
Lowest sp	ecified char	ging temperat	ure: 0°C (Batte	ery (earbuds))	10.	1 1	at at	STEP ST		
Dongguan Baijiaying Electronic Technology Co., Ltd / 18650 1800mAh		Normal	4.2	0.4	te	Battery mperature: 0°C	The battery charg decreases	ing current		
		Abnormal-	TEK - WITE	white wh		21/2 21	_ 2, 2			
	WILL AND	Single fault		A- A		. C <sup>44</sup> . C	T STEE WITE	WILLIAM		



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Lite Mail	Mrs. My All Mrs.	IEC 62368-1	ITEK MLTEK WILLER WI	Tip Mail Mili
Clause	Requirement – Test	ALL ALL AND	Result – Remark	Verdict

Highest specified cha	rging temperat	ture: 60°C (Ba	ttery (charge b	pase))	
Dongguan Baijiaying Electronic Technology Co., Ltd	Normal	4.20	NET OUTEX	Battery temperature: 60°C	The battery charging circuit stop charging
/ 18650 1800mAh	Abnormal-	mr. m	72	* - *	- CH TEX TEX ON
with the	Single fault –	Mite <del>l -</del> Mite	W. TE. M	Life Variation A	e ur ur ur

# 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)							
Output Circuit	Condition	11 ()()	(V) Time (s) I <sub>sc</sub> (A) Meas. Limit Meas	S (	S (VA)			
Circuit	Condition	U <sub>oc</sub> (V) Time (s)		Meas.	Limit	Meas.	Limit	
all little	TE WILL MULL A	U. W.	110	A	. LEX	TEN JE	MILLER .	
		at set	WITE W	The state of	11/2 11	. 111	20,	
	The late of	124	34	4	25	EK STEK	INLIE OF	
	V V (	4 46	The State		En.	10,	3, ,	

## Supplementary Information:

SC = short circuit, OC = open circuit

\* Unit shutdown immediately, recoverable, no hazard.

T.2, T.3, T.4, T.5	TABLE: S	teady force te	est Silver			THE NATER WATER WALTER WAND		
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation		
EK STER	ALTE MIL	WILL W	Vr. 20.	, ,,	.L .X	THE THE STEE STEEL WATER		
n,		- 64	CEPT CLT		" WITT	Wir Aug Mr. M. M.		
SLITER IN	The WILL	Mr. M.	20.			EX TEX TEX STEE STEE		

# Supplementary information:

\*Test was performed on product with each source listed in table 4.1.2.

T.6, T.9 TA	ABLE: Impa	ct test	A A A A A A A A A A A A A A A A A A A	
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
20, 20,	27.	*	JEH JEH	BUTE WILL WALL WALL WALL TO THE TOP TO THE TOT THE TOP TO THE TOP
CIENT SIN	MITER N	التأثير المالية الما	110	the state of the state of



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21/2	M. A.	IEC 62368-1	ir me m
Clause	Requirement – Test	Result – Remark	Verdict
2/1/2	W W	THE THE WITH WITH MIN	The the
		16. 10. 15. 15.	

Supplementary information:

\*Test was performed on product with each source listed in table 4.1.2.

T.7 T	ABLE: Drop	test		N/A				
Location/Part	Material	Thickness (mm)	Height (mm)	Observation				
WITE WIT	MULL	14. 14. 14		the the this state with white s				
J. A		TEK JEK J	EK WILLE	and and an an an				
WITE WALL	mer in	20, 20,	z+	fet tet itet stret nute unit sun				
Supplementar	y information:							

T.8 TA	ABLE: Stress	s relief test	in the		16th	Cler SI	er nei	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)		Obse	rvation	
LEF SE	N. S. W.	100	2,5			T at	ZE*	TEX
Supplementary	information:							
*Test was perfo	ormed on pro	duct with each sou	rce listed in t	able 4 1 2		1	J.L	

X TABL	E: Alternative m	ethod for deterr	nining minimum cleara	ances distances N/A
Clearance dist		of working volta	ge Required cl (mm)	Measured cl (mm)
TULL MULL M	Tr. Mer. M.		et tet set is	TER OUTER SOUTH SUNCT ON
Supplementary info	rmation:			
THE WALL WAL	24. 24.	A	Let LET STE	Life will whit with

4.1.2 Object / part No.	TABLE: Critical components information						
	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>		
Enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC310(+) Min.V-0, 60°C, min. thickness:1.0mm		UL 94	UL E162823		
Internal wire	SHENZHEN XINSUN ELECTRIC CO LTD	3239	200°C, 24AWG, VW- 1	UL 758	UL E351556		
Speaker	Shenzhen Huashunfa electronics co. LTD	52MM	4ohm, 5W	IEC/EN 62368-1	Test with appliance		



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IEC 62368-1									
Clause	Requirement – Test			Result – Remark	Verdict				
JI.	m. m. m.		LE* JE	ALTE MILE WALL	are an				
PCB	JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-1	V-0, 130°C	UL 94 UL 796	UL E331298				
Battery	Dongguan Baijiaying Electronic Technology Co., Ltd	18650 1800mAh	3.7V, 1800r	mAh IEC 62133- 2:2017	Approved				

Supplementary information:

1) License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.



# **Photo Documentation**

Reference No.: WTF23D11253407Y





Photo 1



Photo 2

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# **Photo Documentation**

Reference No.: WTF23D11253407Y





Photo 3

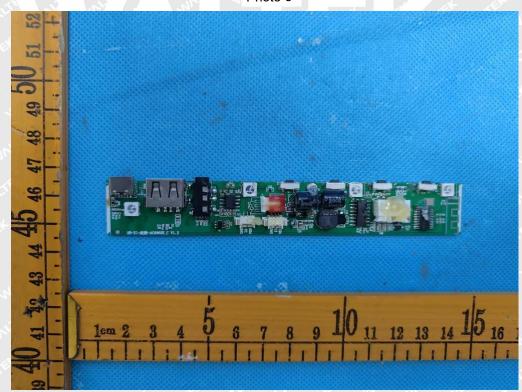


Photo 4



# **Photo Documentation**





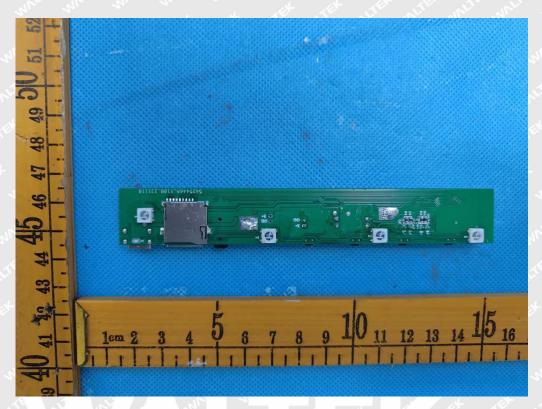


Photo 5

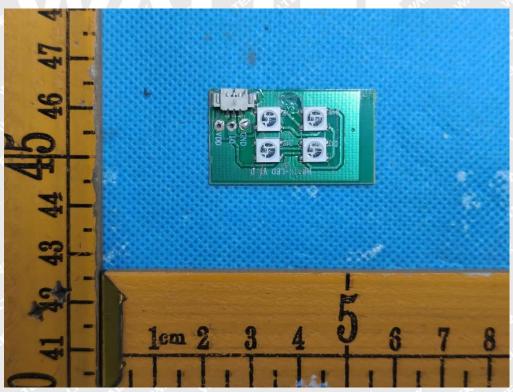


Photo 6





Photo Documentation



Photo 7
===== End of Report ======