



# **TEST REPORT**

Reference	No	:	WTF24D09215472Y

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

Hong Kong

Manufacturer ..... : 118102

Address..... : N/A

Product...... : TWS earbuds with charging case

Model(s)..... : MO6862

Standards...... IEC 62368-1:2018, EN IEC 62368-1:2020+A11:2020

Audio/video, information and communication technology equipment -

Part 1:Safety requirements

Date of Receipt sample..... 2024-09-23

**Date of Test**...... : 2024-09-23 to 2024-10-09

Date of Issue..... : 2024-10-11

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:

Jason Huang / Project Engineer

Jason . Huany

Almon Zhao / Designated Reviewer



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Test Item descriptionTWS	earbuds with charging case
Trade Mark(s) MOB	LEX TEX LIEX NITER WITER WHITE WHITE
Model/Type referenceMO6	862
Ratings Frequency	uency range: 2402-2480 MHz
Maxi	mum RF power:13dBm (EIR P)
Remark:  Whether parts of tests for the product have been s  ☐ Yes ☐ No  If Yes, list the related test items and lab informatio  Test items:  Lab information:	The state of the state of the
Summary of testing:  1. These samples are tested and complied with the	ne requirements of standards listed on this report.
Tests performed (name of test and test clause - EN IEC 62368-1:2020+A11:2020 The submitted samples were found to comply wit requirements of above specification.	No. 77, Houjie Section, Guantai Road, Houjie
Summary of compliance with National Differences List of countries addressed: National Differences checked.   The product fulfils the requirements of EN IEC	and Group Differences for CENELEC countries were
Statement concerning the uncertainty of the n	neasurement systems used for the tests
☐ Internal procedure used for type testing the has been established:	rough which traceability of the measuring uncertainty
Procedure number, issue date and title: N/A	Whitek whitek whitek whitek whitek whitek
☐ Statement not required by the standard use N/A	ed for type testing





#### Copy of marking plate:

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



#### Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- 2. The CE marking, UKCA 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:	- SLIEF WILLE MALLE WALL MALL WALL
Product group:	
Classification of use by:	
	☐ Instructed person
	☐ Skilled person
Supply connection::	☐ AC mains ☐ DC mains
	<ul><li>✓ not mains connected:</li><li>✓ ES1 ☐ ES2 ☐ ES3</li></ul>
Supply tolerance:	+10%/-10%
	☐ +20%/-15%
	· +_%/%
	None     Non
Supply connection – type:	☐ pluggable equipment type A -
	non-detachable supply cord
	appliance coupler
	☐ direct plug-in
	<ul><li>□ pluggable equipment type B -</li><li>□ non-detachable supply cord</li></ul>
	☐ appliance coupler
	permanent connection
	☐ mating connector ☒ other: not Mains connected
Considered current rating of protective device	☐ Others: A;
	Location: ☐ building ☐ equipment
Equipment mobility	<ul><li>N/A</li><li>⋈ movable</li><li>□ hand-held</li><li>⋈ transportable</li></ul>
Equipment mobility::	☐ direct plug-in ☐ stationary ☐ for building-in
	□ wall/ceiling-mounted □ SRME/rack-mounted
	other:
Overvoltage category (OVC):	
Class of equipment:	<ul><li>☐ OVC IV</li><li>☐ other: not Mains connected</li><li>☐ Class II</li><li>☐ Class III</li></ul>
Class of equipment	□ Not classified □
Special installation location:	<ul><li>N/A</li><li>□ restricted access area</li></ul>
	outdoor location
Pollution degree (PD):	□ PD 1 □ PD 3
Manufacturer's specified T <sub>ma</sub> :	25°C  Outdoor: minimum°C
IP protection class:	□ IP □
Power systems:	□ TN □ TT □ ITV L-L
the stee steet nite and w	□ not AC mains
Altitude during operation (m):	☐ 2000 m or less ☐ _5000_m
Altitude of test laboratory (m):	≥ 2000 m or less = m
Mass of equipment (kg):	0.034kg max.



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Possible test case verdicts:	A LEX TEX WITE WITE MALL MALL MALL MALL MALL MALL MALL MAL
- test case does not apply to th	e test object: N/A
- test object does meet the requ	uirement: P (Pass)
- test object does not meet the	requirement: F (Fail)
Testing:	LIER WITER WITE MAIL MAY MAY AND THE WAY
Date of receipt of test item	: See cover page
Date (s) of performance of tests	sSee cover page
General remarks:	White white will are the text item
"(see Enclosure #)" refers to add "(see appended table)" refers to	itional information appended to the report.
	omma / 🖂 point is used as the decimal separator.
General Product Information:	LITE WALL THE THE THE THE THE
Product Description:	of the tex offer wife many many many
1. The EUT covered by this repo communication technology equip	ort is a Wireless Earphones used as Audio/video, information and oment.
<ol><li>It is supplied by external power complied with PS1.</li></ol>	er supply or by approved internal lithium-ion battery or USB type-C which
3. Specified maximum ambient to	emperature is 25°C.
4. All circuits complied with ES1	and PS1, no other circuit existed.
5. The product were found to cortest report no. WTF24X0921548	mply with the requirements of sound pressure standard EN 50332-2, see 4Y.
Model Differences	K OLIEK WALTER WALTER WALTER WALTER WALTER WALTER
N/A	THE THE THE STITE WITH WITH
Additional application conside	rations –



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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
ES3: All circuits	Ordinary	N/A	N/A	N/A
6	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: All circuits	Enclosure	N/A	N/A	N/A
7	Injury caused by hazardou	s substances		
Class and Energy Source	Body Part Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Battery (See Annex M)	Ordinary	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: Mass of the unit	Ordinary	N/A	N/A	N/A
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: Plastic enclosure	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 used for indicating light)	LED indicator light	N/A	N/A	N/A
RS2: Sound output	Ordinary	Instructional safeguards	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				
The state of the s				
INTER MITE MALTE MALTE MALE MALE MALE MALE MALTER M				
□ ES □ PS □ MS □ TS □ RS				
See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS.				
The state of the s				



Reference	NO.: W1F24D092154721	Page 8 01 75		it is the
The Much		IEC 62368-1		
Clause	Requirement + Test	MUTTER MAN AND I	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	NI P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G.	Pall Whitek Whitek
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	FEET PAIN
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	Mr. Mr. Mr.	N/A
4.4.3.2	Steady force tests	(See Annex T.4and T.5).	N/A
4.4.3.3	Drop tests	(See Annex T.7)	N/A
4.4.3.4	Impact tests	(See Annex T.6)	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
	Glass impact test (1J)	Mr. Mr. Mr.	N/A
MULTE V	Push/pull test (10 N)	NLIER WITE WALTER WALTE	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	N/A
4.4.3.9	Air comprising a safeguard	The Murit Muri Aug. A	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	P
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



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The MULL		IEC 62368-1		
Clause	Requirement + Test	Tile MULL MULL M	Result - Remark	Verdict

4.5	Explosion		P
4.5.1	General	WITE WALL MALL MALL	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	LIFE P
Et JEY	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	MULL MULL MULL MILL	N/A
DLIER	Fix conductors not to defeat a safeguard	. Tet ITE LIFE MITE	N/A
-4°	Compliance is checked by test:	my my my	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	The state of	N/A
4.7.3	Torque (Nm):	ER WILL MULL MULL MU	N/A
4.8	Equipment containing coin/button cell batteries	x set set set set	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard::	Mr. Muri My Mr.	N/A
4.8.3	Battery compartment door/cover construction	ALTER SLIFE	N/A
st si	Open torque test	1 12 12 12 12	N/A
4.8.4.2	Stress relief test	SE CHIE WILLIAM WALLE WAL	N/A
4.8.4.3	Battery replacement test	at the title of	N/A
4.8.4.4	Drop test	White Murit Mury Mury	N/A
4.8.4.5	Impact test	at let let let liet	N/A
4.8.4.6	Crush test	hr my my m	N/A
4.8.5	Compliance	LEK LIEK NLIEK WLIEF AN	N/A
**	30N force test with test probe	The things to the	N/A
Mer	20N force test with test hook	MITER MALTER WALLE WAL	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays	(See Annex G)	N/A

5	ELECTRICALLY-CAUSED INJURY	- P
5.2	Classification and limits of electrical energy sources	P



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
ans a		white while while whi	an.
5.2.2	ES1, ES2 and ES3 limits	the second	P
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits	(See appended table 5.2)	N/A
5.2.2.5	Limits for repetitive pulses:	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals	(See Annex H)	N/A
5.2.2.7	Audio signals	No such audio signals	N/A
5.3	Protection against electrical energy sources	A A A A	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	WILL MULL MULL MULL	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	TER WILL MILL MILL AN	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	MITER WALTER WALTER WALTER	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit.	N/A
TEX II	Accessibility to outdoor equipment bare parts	A A A A A A A A A A A A A A A A A A A	N/A
5.3.2.2	Contact requirements	2 July My 1	N/A
EK OLIET	Test with test probe from Annex V	THE LIFE OF	_
5.3.2.2 a)	Air gap – electric strength test potential (V):	(See appended table 5.4.9)	N/A
5.3.2.2 b)	Air gap – distance (mm):	LIFE OUTER NATIONALLE	N/A
5.3.2.3	Compliance	The street of	N/A
5.3.2.4	Terminals for connecting stripped wire	ALTER WALTER WALTER WALTER	N/A
5.4	Insulation materials and requirements	at at at at	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	e- Tet Tet with all	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)	P
5.4.1.5	Pollution degrees	me me me	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	HITEK WHITEK WHITEK WHITEK	N/A
5.4.1.5.3	Thermal cycling test	SEX SLIER CLIER WITER OF	N/A
5.4.1.6	Insulation in transformers with varying dimensions	24, 24	N/A
5.4.1.7	Insulation in circuits generating starting pulses	LIET NEIST NAITE MAIN	N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
<u> </u>	Determine the mark we will be dealers as	Military Military	The The
5.4.1.8	Determination of working voltage:	At At Sit	N/A
5.4.1.9	Insulating surfaces	Very Aug Aug A	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	IEK UNITEK WALTER WAL	N/A
5.4.1.10.2	Vicat test:	t let set se	N/A
5.4.1.10.3	Ball pressure test:	Mur. Aur. Aur.	N/A
5.4.2	Clearances	TEK ITEK NITEK	N/A
5.4.2.1	General requirements	11/2 21/2	N/A
incite whe	Clearances in circuits connected to AC Mains, Alternative method	LIER WALTER WALTER WA	N/A
5.4.2.2	Procedure 1 for determining clearance	Et SITER SUITER SINI	N/A
st let	Temporary overvoltage:	70 70 A	
5.4.2.3	Procedure 2 for determining clearance	WILLEY WALLEY	N/A
5.4.2.3.2.2	a.c. mains transient voltage:	at at the	TER -
5.4.2.3.2.3	d.c. mains transient voltage:	Mrze Mrzy Angry A	_
5.4.2.3.2.4	External circuit transient voltage:	ALL CHARLES AND	7 <sup>ct</sup> .ul —
5.4.2.3.2.5	Transient voltage determined by measurement:		, <u> </u>
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	white out with	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	WALTER WALTER WALTER	N/A
5.4.2.6	Clearance measurement:	NITER MITER WALTER W	N/A
5.4.3	Creepage distances		ob N/A
5.4.3.1	General	The Walt Mary Mary	N/A
5.4.3.3	Material group:	- TEX TEX LITE	
5.4.3.4	Creepage distances measurement:	my my m	N/A
5.4.4	Solid insulation	LIER OLIER ORITER	N/A
5.4.4.1	General requirements	The state of	N/A
5.4.4.2	Minimum distance through insulation:	CITE WILLEY WALLE ON	N/A
5.4.4.3	Insulating compound forming solid insulation	at the sit is	N/A
5.4.4.4	Solid insulation in semiconductor devices	mer mer mer	N/A
5.4.4.5	Insulating compound forming cemented joints	At Att Out	N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
71/2 1		White white whi	The Alexander	
5.4.4.6	Thin sheet material	the state of the s	N/A	
5.4.4.6.1	General requirements	urit mur mur n	N/A	
5.4.4.6.2	Separable thin sheet material	it it is	N/A	
<u> </u>	Number of layers (pcs):	. Aug Aug Au	N/A	
5.4.4.6.3	Non-separable thin sheet material	t TEN TIER WITE	N/A	
at the	Number of layers (pcs):	Mr. In m	N/A	
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	MALTER WALTER WALTER	N/A	
5.4.4.6.5	Mandrel test	LITER OLITER MILIE W	N/A	
5.4.4.7	Solid insulation in wound components	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
5.4.4.9	Solid insulation at frequencies >30 kHz, <i>E</i> <sub>P</sub> , <i>K</i> <sub>R</sub> , <i>d</i> , <i>V</i> <sub>PW</sub> (V)	E MILL MILL MAN	N/A	
Mur. 1	Alternative by electric strength test, tested voltage (V), K <sub>R</sub>	MILLE MILLE WALL	N/A	
5.4.5	Antenna terminal insulation		N/A	
5.4.5.1	General		N/A	
5.4.5.2	Voltage surge test	A CHULL MA	N/A	
5.4.5.3	Insulation resistance (M $\Omega$ )		N/A	
	Electric strength test	Mer Aug Aug	N/A	
5.4.6	Insulation of internal wire as part of supplementary safeguard	WALTER WALTER WALTER	N/A	
5.4.7	Tests for semiconductor components and for cemented joints	NITER WALTER WALTER	N/A	
5.4.8	Humidity conditioning	EX LIEX NUTER INC	N/A	
EK MUTEK	Relative humidity (%), temperature (°C), duration (h)	- TEX TIEK NITE	- mir -	
5.4.9	Electric strength test	21/2 21/2 21/2	N/A	
5.4.9.1	Test procedure for type test of solid insulation:	NITE MITE MITE	N/A	
5.4.9.2	Test procedure for routine test		N/A	
5.4.10	Safeguards against transient voltages from external circuits	TITE WHITE WASTE WA	N/A	
5.4.10.1	Parts and circuits separated from external circuits	WALLE WALLE WALL	N/A	
5.4.10.2	Test methods	at let let	N/A	
5.4.10.2.1	General	with any and	N/A	



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in with	IEC 62368-1	SER WILLER WITE WATER ON	ir. Mir
Clause	Requirement + Test	Result - Remark	Verdict
1/2 1	W W JEE STEE	THE WALL WALL MAN	4110
5.4.10.2.2	Impulse test:	and the state of the	N/A
5.4.10.2.3	Steady-state test:	write white many many	N/A
5.4.10.3	Verification for insulation breakdown for impulse test:	TEX UNLIEX WALTER WALTER	N/A
5.4.11	Separation between external circuits and earth	L St. St. St.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	MUS AND AND AND	N/A
5.4.11.2	Requirements	WHILE MILL MILL MILL	N/A
UNLIER WAL	SPDs bridge separation between external circuit and earth	LIET WHITE WHITE	N/A
LIEK NLIE	Rated operating voltage U <sub>op</sub> (V)	at tell tell street	_
, , , , , , , , , , , , , , , , , , ,	Nominal voltage U <sub>peak</sub> (V)	mi mi m	_
WILL	Max increase due to variation ΔU <sub>sp</sub> :	- LIER RUEL MILIER MA	1 _
, dt	Max increase due to ageing ΔUsa:		<u> </u>
5.4.11.3	Test method and compliance	WHITE MALLE WALL WALL	N/A
5.4.12	Insulating liquid	TET LIFET	N/A
5.4.12.1	General requirements	a funga and	N/A
5.4.12.2	Electric strength of an insulating liquid:	PER LIFE MILES NO	N/A
5.4.12.3	Compatibility of an insulating liquid	Mr. All And	N/A
5.4.12.4	Container for insulating liquid:	WILL WILL MILL MILL	N/A
5.5	Components as safeguards	a at at the	N/A
5.5.1	General	Will Mrs. Mrs. M.	N/A
5.5.2	Capacitors and RC units	Et TET LIET SLITER	N/A
5.5.2.1	General requirement	Mr. Mr. Mr.	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	MALIER WALTER WALTER WAS	N/A
5.5.3	Transformers	THE STEE MITE WHITE	N/A
5.5.4	Optocouplers	ar su su	N/A
5.5.5	Relays	LIFE WHILE WALL WALL	N/A
5.5.6	Resistors	at the fifth	N/A
5.5.7	SPDs	MUTE MET MET ME	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	UNLIER WHITE WHITE	N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5.5.0	Cofe would for the soul has in the soul and	White while whi will	NI/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A	
20, 25,	RCD rated residual operating current (mA):	Very Mur Aug M.	1 -	
5.6	Protective conductor	THE THE STEEL STEEL	N/A	
5.6.2	Requirement for protective conductors	in My. My. My.	N/A	
5.6.2.1	General requirements	t liet aliet mile un	N/A	
5.6.2.2	Colour of insulation	111 12	N/A	
5.6.3	Requirement for protective earthing conductors	WITER WITE WILL MILL	N/A	
	Protective earthing conductor size (mm²):	at let set set	_	
TEK CIE	Protective earthing conductor serving as a reinforced safeguard	THE WAY THE THE	N/A	
A LEX	Protective earthing conductor serving as a double safeguard	and and any a	N/A	
5.6.4	Requirements for protective bonding conductors	WHILE MUTTE MUTE MAY	N/A	
5.6.4.1	Protective bonding conductors		N/A	
24, 2,	Protective bonding conductor size (mm²):	avery and any any	_	
5.6.4.2	Protective current rating (A):		N/A	
5.6.5	Terminals for protective conductors	3 100	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	Multin Multin Multing Ma	N/A	
WALTE.	Terminal size for connecting protective bonding conductors (mm)	WALTER WALTER WALTER WALTER	N/A	
5.6.5.2	Corrosion	LIER WILL WILL MALLE	N/A	
5.6.6	Resistance of the protective bonding system		_ N/A	
5.6.6.1	Requirements	THE UNLIE WALL VALLE OF	N/A	
5.6.6.2	Test Method:	at let let	N/A	
5.6.6.3	Resistance (Ω) or voltage drop:	Mary Mary May All	N/A	
5.6.7	Reliable connection of a protective earthing conductor	NATER MATER WATER MATER	N/A	
5.6.8	Functional earthing	TER LIER SLIER BLIER	N/A	
A S	Conductor size (mm²):	The things	N/A	
Mrcce	Class II with functional earthing marking:	THE SALTER MALLER MALLER WI	N/A	
t set	Appliance inlet cl & cr (mm):	A A A	N/A	
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A	



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
Mrs	THE THE THE	ALTER MALTER MALT	MUE ME	
5.7.2	Measuring devices and networks		N/A	
5.7.2.1	Measurement of touch current	MITER WALTE WALL V	N/A	
5.7.2.2	Measurement of voltage	at at let	N/A	
5.7.3	Equipment set-up, supply connections and earth connections	t est rest re	N/A	
5.7.4	Unearthed accessible parts:	MUT, MUT, MIL	N/A	
5.7.5	Earthed accessible conductive parts	TEK ITEK LITER	N/A	
5.7.6	Requirements when touch current exceeds ES2 limits	and and and	N/A	
	Protective conductor current (mA)	her the the	N/A	
The Will	Instructional Safeguard	Et SITER WITER WAL	N/A	
5.7.7	Prospective touch voltage and touch current associated with external circuits	A LIET WILL WILLEY	N/A	
5.7.7.1	Touch current from coaxial cables	211 21 21	N/A	
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	White Multer White	N/A	
5.7.8	Summation of touch currents from external circuits	THE MILIE WA	N/A	
iek walie	a) Equipment connected to earthed external circuits, current (mA):	SE CUITE INCLES MALIE	N/A	
WALTEK.	b) Equipment connected to unearthed external circuits, current (mA)	THE MITER MITER	N/A	
5.8	Backfeed safeguard in battery backed up suppli	es	N/A	
11/2, 11	Mains terminal ES	No battery used	N/A	
18th S	Air gap (mm):	L A At	N/A	

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		P
6.2.2	Power source circuit classifications	(See appended table 6.2.2)	JIP P
6.2.3	Classification of potential ignition sources	at the text	N/A
6.2.3.1	Arcing PIS:	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.1.5 and B.3, B.4)	MILLE V
LIE" MALI	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	P
6.4.1	Safeguard method	Method by control of fire spread applied.	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	White White White White	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Willer While Mulie While o	N/A
6.4.3.1	Supplementary safeguards	JEK STEK WILL MILLER WA	N/A
6.4.3.2	Single Fault Conditions	(See appended table B.4)	N/A
mr.	Special conditions for temperature limited by fuse	antite wate wate water	N/A
6.4.4	Control of fire spread in PS1 circuits	at at the time	P
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards		N/A
6.4.6	Control of fire spread in PS3 circuits	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
6.4.7	Separation of combustible materials from a PIS	THE WALL MALLE WALLE	N/A
6.4.7.2	Separation by distance	A ST ST ST	N/A
6.4.7.3	Separation by a fire barrier	White Aut was Man	N/A
6.4.8	Fire enclosures and fire barriers	TEX TEX STEX SUTER	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	the me me	N/A
6.4.8.2.1	Requirements for a fire barrier	LEK ALTER WITER WHITE W	N/A
6.4.8.2.2	Requirements for a fire enclosure	W + 15 A	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	MATE WALL WILL MAN	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	INLIER WALLE WALL WALL	N/A
6.4.8.3.2	Fire barrier dimensions	A SH SH THE	N/A
6.4.8.3.3	Top openings and properties	With Aurit Auri Aug A	N/A
TEK NITE	Openings dimensions (mm)	est test trest street and	N/A
6.4.8.3.4	Bottom openings and properties	Mer Aug Aug Aug	N/A
MUL	Openings dimensions (mm)	A THE THE STREET	N/A



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The Much		IEC 62368-1		
Clause	Requirement + Test	MULLI WAY WAY	Result - Remark	Verdict

	Flammability tests for the bottom of a fire enclosure	The state of	N/A
men m	Instructional Safeguard:	ALTER WALTER WALTER WALTER	N/A
6.4.8.3.5	Side openings and properties	at at at act	N/A
	Openings dimensions (mm):	in my my and	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	t united whited whited whi	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	WALTER WALTER WALTER WALTE	N/A
6.4.9	Flammability of insulating liquid	LET THE THE STEET	N/A
6.5	Internal and external wiring	Virginia And And And	N/A
6.5.1	General requirements	(See table 4.1.2).	N/A
6.5.2	Requirements for interconnection to building wiring	THE STEEL STEEL WITH	N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:	Mr. Mr. On St.	N/A
6.6	Safeguards against fire due to the connection to additional equipment		N/A

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

8	MECHANICALLY-CAUSED INJURY  Mechanical energy source classifications  Safeguards against mechanical energy sources	
8.2		
8.3		
8.4	Safeguards against parts with sharp edges and corners	
8.4.1	Safeguards	P
+ .ex	Instructional Safeguard	P



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TE WALL	Mer me me m	IEC 62368-1	TEK OLIEK MILIER MILIER WI	TIE MUTT
Clause	Requirement + Test	anti, m. m.	Result - Remark	Verdict
Me	14, 14, 14, 14, 1	A 18th 15th	The wife while while	Aug.

Clause	Requirement + rest	Result - Remark	verdict
100 J	THE THE THE	NITE WITE WALL WALL	ans
8.4.2	Sharp edges or corners Edges and corners of the enclosure are rounded.		P
8.5	Safeguards against moving parts	all the second	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
MUT	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
Marie M	Moving MS3 parts only accessible to skilled person	CLIER WITER WALTER WALTER	N/A
8.5.2	Instructional safeguard:	and the state	N/A
8.5.4	Special categories of equipment containing moving parts	THE MILE MILE WITH MILE A	N/A
8.5.4.1	General	TEL MALTER MALLE MALL MA	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	a state of	N/A
8.5.4.2.1	Protection of persons in the work cell	multi mult must must	N/A
8.5.4.2.2	Access protection override	TEX TEX STEEL WITER	N/A
8.5.4.2.2.1	Override system	mr m m	N/A
8.5.4.2.2.2	Visual indicator	EX MITE MAILE W	N/A
8.5.4.2.3	Emergency stop system	the state of	N/A
- W	Maximum stopping distance from the point of activation (m)	ANTIE MILL MILL MILL	N/A
Marie W	Space between end point and nearest fixed mechanical part (mm):	White white white white	N/A
8.5.4.2.4	Endurance requirements	TEX LIEX SLIER WATER	N/A
iek alie	Mechanical system subjected to 100 000 cycles of operation		N/A
4	- Mechanical function check and visual inspection	in mer mer mi m	N/A
MITTE	- Cable assembly:	e liek liek mifekanif	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	THE STEEL SLITES MATER	N/A
8.5.4.3.1	Equipment safeguards	my my my my	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	LIER MIER WHITE WHITE V	N/A
8.5.4.3.3	Disconnection from the supply	and the state of	N/A
8.5.4.3.4	Cut type and test force (N):	SE WHITE MUTTE MUTT MUTT	N/A
8.5.4.3.5	Compliance	t tet tet tret with	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A



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. an	IEC 62368-1	I the write while while w	L. 24.
Clause	Requirement + Test	Result - Remark	Verdict
- All -	Explosion test:	They are my my	N/A
8.5.5.3	Glass particles dimensions (mm)	NIET INTER MILIER WALTE	N/A
8.6	Stability of equipment	A A ST ST	N/A
8.6.1	General	MS1: Mass of the unit	N/A
et nifet	Instructional safeguard:	et tet tet with w	N/A
8.6.2	Static stability	Mr. Aug. Aug.	N/A
8.6.2.2	Static stability test	- LIER WILL MULTER WALL	N/A
8.6.2.3	Downward force test	Silver at the	N/A
8.6.3	Relocation stability	VILLE MULLE MULL MULL	N/A
TEX SU	Wheels diameter (mm)	at lest test trest	<u>.</u> –
- J''	Tilt test	Must my my m	N/A
8.6.4	Glass slide test	e tet attet attet whi	N/A
8.6.5	Horizontal force test	W W S	N/A
8.7	Equipment mounted to wall, ceiling or other struc	cture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	The sure sure	N/A
EK INLIE	Test 1, additional downwards force (N)	CO TO LIFE SUFFER	N/A
CLIER	Test 2, number of attachment points and test force (N)	L TEX TEX STEX OUT	N/A
STIER OF	Test 3 Nominal diameter (mm) and applied torque (Nm)	Et TEX TEX TEX	N/A
8.8	Handles strength	Mr. Mr. Mr. M.	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	W W	N/A
Mury	Number of handles:	E MILE MILE WHITE WA	
JEK	Force applied (N)	at at 1st of	* LEEK
8.9	Wheels or casters attachment requirements	Marie Mili Mili Mili	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	We also all	N/A
8.10.1	General William Control of the Contr	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	y let the the of	N/A



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(CICICIICE	No.: W1F24D09215472Y Page 20 of 75	1 1 1 1 1	
. Aller	IEC 62368-1	ier write while while	The The
Clause	Requirement + Test	Result - Remark	Verdict
ans.	MI M THE THE	WITE WITE WILL	Mrs. Mrs.
8.10.3	Cart, stand or carrier loading test	a st st	N/A
	Loading force applied (N):	WILL MUTTE MUTTER OF	N/A
8.10.4	Cart, stand or carrier impact test	at at let .	N/A
8.10.5	Mechanical stability	The Me M	N/A
ER WILLE	Force applied (N)	e liet aliet mire	MILTE WILL
8.10.6	.6 Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment (SRME)		N/A
8.11.1	General	No such parts	N/A
8.11.2	Requirements for slide rails	ATTE WALL MALL MA	N/A
IFE WIFE	Instructional Safeguard:	et tet tet at	N/A
8.11.3	Mechanical strength test	mr mr m	N/A
8.11.3.1	Downward force test, force (N) applied:	ALTER NITER WITER	N/A
8.11.3.2	Lateral push force test	20 20 20	N/A
8.11.3.3	Integrity of slide rail end stops	INLIE WALTER WALLE	N/A
8.11.4	Compliance	At 1 1 1th	N/A
8.12	Telescoping or rod antennas		N/A
EK NITE	Button/ball diameter (mm)	No such parts	·

9 mil	THERMAL BURN INJURY		₩P.
9.2	Thermal energy source classifications		P
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	(See appended table)	Р
9.3.2	Test method and compliance	in my my m	Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		P
9.5.1	Equipment safeguard	Equipment safeguard	n P
9.5.2	Instructional safeguard:	Instructional safeguard is not required	N/A
9.6	Requirements for wireless power transmitters	The state of	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	at the tit the	N/A
9.6.3	Test method and compliance:	Merit Mer Mer Me	N/A



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TCICICIOC	140 11 11 24 00 00 2 10 4 7 2 1	1 agc 21 01 7 3	<u> </u>	
THE WALL		IEC 62368-1		
Clause	Requirement + Test	in while the top	Result - Remark	Verdict

10	RADIATION		
10.2	Radiation energy source classification	WITE WHILE WHILE WALL	Р
10.2.1	General classification	LED used for indicating light, classify RS1 classification	P
EK MITE	Lasers:	et ret ret wet	
7,1	Lamps and lamp systems	me, me, me, m	
MALTER.	Image projectors:	LIEK NITER MITER WHITE	
d	X-Ray:	Silv Silv Silv Silv Silv Silv Silv Silv	
Vicini	Personal music player	LITE WALLEY WALL WILL A	
10.3	Safeguards against laser radiation	at the the state of	N/A
t Nifet	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	Р
	Instructional safeguard provided for accessible radiation level needs to exceed	t let	N/A
20	Risk group marking and location:	Music Aut Aut Au	N/A
MITER	Information for safe operation and installation	- TEX STEX SLIER MITE	N/A
10.4.2	Requirements for enclosures	me m m	N/A
in w	UV radiation exposure:	LIER MITER WHITE WALLY	N/A
10.4.3	Instructional safeguard:	a to the little	N/A
10.5	Safeguards against X-radiation	ite with mit mit with	N/A
10.5.1	Requirements	No X-radiation	N/A
700	Instructional safeguard for skilled persons:	Mur. Mur. Mr. M.	_
10.5.3	Maximum radiation (pA/kg):	THE NITER MITTER MILITER	_
10.6	Safeguards against acoustic energy sources		Р
10.6.1	General	CLIEB WILL MALLE MALL A	Р
10.6.2	Classification	RS2	P
- TEX	Acoustic output L <sub>Aeq,T</sub> , dB(A):	See test report No. WTF24X09215484Y.	N/A
20,0	Unweighted RMS output voltage (mV)	See test report No.	N/A



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THE MUTEL		IEC 62368-1		
Clause	Requirement + Test	MILL WILL WILL	Result - Remark	Verdict

J.	Et TEX LIER OLIE WILL WALL AND	WTF24X09215484Y.	et et
ing in	Digital output signal (dBFS)::	See test report No. WTF24X09215484Y.	N/A
10.6.3	Requirements for dose-based systems	TEX NUTER WAITER WHITE	N/A
10.6.3.1	General requirements	the state of	N/A
10.6.3.2	Dose-based warning and automatic decrease	e with Auth Man	N/A
10.6.3.3	Exposure-based warning and requirements	· Let Tet Tet	N/A
20, 2	30 s integrated exposure level (MEL30)	THE THE THE THE	N/A
NITE WA	Warning for MEL ≥ 100 dB(A)	STER STER WITER WIT	N/A
10.6.4	Measurement methods	A CALL TO THE STATE OF THE STAT	N/A
10.6.5	Protection of persons	TEX WITE WITE WALL	N/A
t Jet	Instructional safeguards:	a state of	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	MULT AND AND A	TEK LIEK
10.6.6.1	Corded listening devices with analogue input	Will Mill Mull An	N/A
LIEK WI	Listening device input voltage (mV)	it litt sift	N/A
10.6.6.2	Corded listening devices with digital input	2 34 54 50	N/A
NUTT.	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)	in the wine south	N/A
10.6.6.3	Cordless listening devices	Mr. A. St.	P
"AVT" (	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	See test report No. WTF24X09215484Y.	P

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS  General		LIEKP WIT
B.1			⊁ Po®
B.1.5	Temperature measurement conditions (See appended table B.1.5)		Р
B.2	Normal operating conditions		P
B.2.1	General requirements	: (See Test Item Particulars and appended test tables)	P
alik sa	Audio Amplifiers and equipment with audio amplifiers	(See appended table B.2.5)	P
B.2.3	Supply voltage and tolerances	DC V	N/A
B.2.5	Input test	: (See appended table B.2.5)	Р



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The WALL		IEC 62368-1		
Clause	Requirement + Test	ie writ was an	Result - Remark	Verdict

B.3	B.3 Simulated abnormal operating conditions		
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
2,0	Instructional safeguard:	The main and an	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	No such output terminals	N/A
B.3.6	Reverse battery polarity	Noreverse	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
B.4	Simulated single fault conditions 错误!未指定书签		P
B.4.1	General	MULT MULT MILL MILL	Р
B.4.2	Temperature controlling device	TEN STEEL STEEL STEEL STEEL	N/A
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	Р
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	Р
B.4.9	Battery charging and discharging under single fault conditions	See annex M	Р



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The William		IEC 62368-1		
Clause	Requirement + Test	Mr. Mr. M.	Result - Remark	Verdict

С	UV RADIATION		
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	e at at set o	N/A
C.2	UV light conditioning test	MULL MULL MULL MU	N/A
C.2.1	Test apparatus:	Tex Itex Lifex mire	N/A
C.2.2	Mounting of test samples	Mr. M. M.	N/A
C.2.3	Carbon-arc light-exposure test	LIEK NLIER WALTER WALTER	N/A
C.2.4	Xenon-arc light-exposure test	the state of	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	t pet get get at	N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		Р
E.1	Electrical energy source classification for audio signals		Р
Et S	Maximum non-clipped output power (W):	(See appended table B.2.5)	_
24	Rated load impedance (Ω):	(See appended table 4.1.2)	_
MITER	Open-circuit output voltage (V)	(See appended table B.2.5)	_
~	Instructional safeguard:	Provided in the manual	_
E.2	Audio amplifier normal operating conditions		₩ P
all c	Audio signal source type:	(See appended table B.2.5)	_
21/2	Audio output power (W):	(See appended table B.2.5)	_
A WITE	Audio output voltage (V):	(See appended table B.2.5)	_
A.	Rated load impedance (Ω):	(See appended table 4.1.2)	_
White.	Requirements for temperature measurement	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	WP.
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3)	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		P P
F.1	General	3" × 3+ 3	P
with	Language	alie will spill whi	



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The Much		IEC 62368-1		
Clause	Requirement + Test	MULL MA MA	Result - Remark	Verdict

F.2	Letter symbols and graphical symbols		
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	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 P
F.3	Equipment markings	write mer me me	Р
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	net P vi
F.3.2	Equipment identification markings	See copy of marking plate.	- P
F.3.2.1	Manufacturer identification	See copy of marking plate	√P.
F.3.2.2	Model identification	See copy of marking plate.	P
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains	ALTER OLITER A	N/A
F.3.3.2	Equipment without direct connection to mains	Use an external adapter for power supply.	EX P
F.3.3.3	Nature of the supply voltage:	111 111 111	N/A
F.3.3.4	Rated voltage:	NIEL MITE WALLE WALLE	N/A
F.3.3.5	Rated frequency:	The table and the	N/A
F.3.3.6	Rated current or rated power	ALTER MILLE WALL WALL	N/A
F.3.3.7	Equipment with multiple supply connections	at let tet tet	N/A
F.3.4	Voltage setting device	i mi me me	N/A
F.3.5	Terminals and operating devices	2- TEX STEX WITER WITE	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	THE THE LITTER STITES	N/A
F.3.5.2	Switch position identification marking	mr. m. m.	N/A
F.3.5.3	Replacement fuse identification and rating markings	LIET WHITE WALTER WALTER	N/A
IEX WILE	Instructional safeguards for neutral fuse:	et tet tet stet si	N/A
F.3.5.4	Replacement battery identification marking:	The My And And	N/A
F.3.5.5	Neutral conductor terminal	THE LITT STIFF WITH	N/A



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. alex	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
5050		WILLE WALL WALL WALL	2/1/2		
F.3.5.6	Terminal marking location	the state of the	N/A		
F.3.6	Equipment markings related to equipment classification	with Aug. Aug. Aug.	N/A		
F.3.6.1	Class I equipment	LIER WILLER NUTE WHILE AN	N/A		
F.3.6.1.1	Protective earthing conductor terminal	at at at a	N/A		
F.3.6.1.2	Protective bonding conductor terminals	MULL MILL MILL MINE	N/A		
F.3.6.2	Equipment class marking	et tet tet tie	N/A		
F.3.6.3	Functional earthing terminal marking:	Mer Mer Mer Mer	N/A		
F.3.7	Equipment IP rating marking:	IPX0	N/A		
F.3.8	External power supply output marking:	See copy of marking plate.	Р		
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P <sup>I</sup>		
F.3.10	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.	PANALTEK MI SEK MALT MALTEK MALTEK		
F.4	Instructions	AUF. AUF. AUF. AU	Р		
ITEM MALTY	a) Information prior to installation and initial use	LEK LIEK NITER MITER NO	P		
	b) Equipment for use in locations where children not likely to be present	the text text and	N/A		
	c) Instructions for installation and interconnection	MUT, AUT, AU, AU,	N/A		
White W	d) Equipment intended for use only in restricted access area	MALIER WALTER WALTER WALTER	N/A		
LIEK N	e) Equipment intended to be fastened in place	let let let let	N/A		
100	f) Instructions for audio equipment terminals	her me me a	N/A		
ier nute	g) Protective earthing used as a safeguard	et jet liet diet diet	N/A		
LIEK	h) Protective conductor current exceeding ES2 limits	the telestate att	N/A		
10,	i) Graphic symbols used on equipment	MUT ME AND AND	N/A		



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
apr.	all all the title	WILL MILL MULT MULT	ap.
antiek an	j) Permanently connected equipment not provided with all-pole mains switch	TEX LIEX SLIEX SLIEX	N/A
	k) Replaceable components or modules providing safeguard function	or all the set	N/A
- 24	Equipment containing insulating liquid	The The Me A	N/A
EK WITE	m) Installation instructions for outdoor equipment	t itek itek mitek mi	N/A
F.5	Instructional safeguards	Mr. M. M.	N/A
G	COMPONENTS		JIP P
G.1	Switches	a a st st	N/A
G.1.1	General	No switches used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	et let litt liter o	N/A
G.1.3	Test method and compliance	m m n n	N/A
G.2	Relays	t liet outer outer would	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	CHIEF WILL WALL WALL	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	THE MALTER MALTER	N/A
G.2.4	Test method and compliance	t set	N/A
G.3	Protective devices	White Mile Must My	N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
MUTIEK MU	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	NIFE WALTER WALTER	N/A
LIEK WALT	Thermal cut-outs tested as part of the equipment as indicated in c)	LEX MUTEX MUTEX MUTEX	N/A
G.3.1.2	Test method and compliance	and the state of	N/A
G.3.2	Thermal links	No thermal links used.	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	UNLIEK WALTER WALTER WALTER	N/A
NLTER UNI	b) Thermal links tested as part of the equipment	TEX TEX STEX STEX	N/A
G.3.2.2	Test method and compliance	The Me Me	N/A
G.3.3	PTC thermistors	IF OLIEK WITER WITE W	N/A
G.3.4	Overcurrent protection devices	20, 20, 2	N/A



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, aver	IEC 62368-1	TER INTER WITH WITH	Mrs. Mrs.
Clause	Requirement + Test	Result - Remark	Verdict
Mr. 1	W W THE STEE	in with more and	me me
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	LIER SLIER WILLER	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	an w	N/A
G.3.5.2	Single faults conditions:	The same	N/A
G.4	Connectors	ER MITER WALTER WALLE	N/A
G.4.1	Spacings	A ST ST	N/A
G.4.2	Mains connector configuration	White Man Man	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	VALUE WALLEY WALLEY	N/A
G.5	Wound components	et set set s	N/A
G.5.1	Wire insulation in wound components	me me m	N/A
G.5.1.2	Protection against mechanical stress	TEX SUEL MIE	N/A
G.5.2	Endurance test	All All All	N/A
G.5.2.1	General test requirements	WILL MULL MULL	N/A
G.5.2.2	Heat run test	A. Tet	N/A
200	Test time (days per cycle)	and the sale	
ER NALTE	Test temperature (°C)	The state of the	sini —
G.5.2.3	Wound components supplied from the mains	14 14 14	N/A
G.5.2.4	No insulation breakdown	MITER MITE WALLE	N/A
G.5.3	Transformers	A A A	N/A
G.5.3.1	Compliance method:	WALTE WALL WALL W	N/A
ITER MITE	Position:	et let let a	N/A
£ 14	Method of protection:	i me me m	N/A
G.5.3.2	Insulation	E SLIEN RUEN WILE	N/A
LEF.	Protection from displacement of windings:	The Table 1	
G.5.3.3	Transformer overload tests	UNLIE MALIE WALL	N/A
G.5.3.3.1	Test conditions	at at at	N/A
G.5.3.3.2	Winding temperatures	West Aug Aug Au	N/A
G.5.3.3.3	Winding temperatures - alternative test method	of the tiet at	N/A
G.5.3.4	Transformers using FIW	Mr. M. M.	N/A
G.5.3.4.1	General	Y LIER ALIER PALIE	N/A



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	,	. s.gs _s s. r s		
The MUTT.		IEC 62368-1		
Clause	Requirement + Test	Mary Mr. M.	Result - Remark	Verdict
	19/2 2/2 2/2	, JH 2		100 100

·		1 1 10	AV C
m. 1	M M W W THE RESERVENCE	Marie Walie Walie	The April
-JEH	FIW wire nominal diameter:		- July -
G.5.3.4.2	Transformers with basic insulation only	WILL MUEL MUEL A	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	NIEK WHIEK WHIEK WH	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	ist mises mises white	N/A
G.5.3.4.5	Thermal cycling test and compliance	L at at at	N/A
G.5.3.4.6	Partial discharge test	WELL ME ME	N/A
G.5.3.4.7	Routine test	LET LET LIET O	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	TEX NITEX MITER NAV	N/A
G.5.4.2	Motor overload test conditions	The second second	N/A
G.5.4.3	Running overload test	E WALTE WALTER WALTER	N/A
G.5.4.4.2	Locked-rotor overload test	at let let	N/A
11, 21,	Test duration (days):	Mr. Murry Mary A	<u> </u>
G.5.4.5	Running overload test for DC motors	ALTER IN	N/A
G.5.4.5.2	Tested in the unit	1 1 1 1 1 1 1 1 1	N/A
G.5.4.5.3	Alternative method	I'm mitte antital antital	N/A
G.5.4.6	Locked-rotor overload test for DC motors	and the set	N/A
G.5.4.6.2	Tested in the unit	WALL WILL WILL	N/A
NITER IN	Maximum Temperature:	THE THE STEP	N/A
G.5.4.6.3	Alternative method	alver any any any	N/A
G.5.4.7	Motors with capacitors	LEK RITEK INLIER UNI	N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors	E WILL MULLE MULL	N/A
TEK .	Operating voltage:	at at at	
G.6	Wire Insulation	MULTE WHI WAS	N/A
G.6.1	General	TEX STEX STEEL OF	N/A
G.6.2	Enamelled winding wire insulation	11 11 11 11	N/A
G.7	Mains supply cords	TER WITER WITER WALL	N/A
G.7.1	General requirements	a at at	N/A
10/15 1	Type:	MALIE WALLE WALL	2/12



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Mer	IEC 62368-1	iter write while while	Mur aller
Clause	Requirement + Test	Result - Remark	Verdict
in 1		MILTE WALTE WALL	me me
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Will Mury Mur a	N/A
G.7.3.2	Cord strain relief	TER MITE WALTER WAS	N/A
G.7.3.2.1	Requirements	e at at s	N/A
100	Strain relief test force (N):	MUT, MUT, MU	N/A
G.7.3.2.2	Strain relief mechanism failure	TEX TEX STER	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	11/2 21/2	N/A
G.7.3.2.4	Strain relief and cord anchorage material	LIEK NITER WITE W	N/A
G.7.4	Cord Entry	t et	N/A
G.7.5	Non-detachable cord bend protection	E MALTE WALL WAL	N/A
G.7.5.1	Requirements	e let det det	N/A
G.7.5.2	Test method and compliance	Mer Mer Mus	N/A
MULIER	Overall diameter or minor overall dimension, <i>D</i> (mm)	WALLER MALLER WALLER	WILL -
NITER NALT	Radius of curvature after test (mm)	ALL STEP OF	IIE .
G.7.6	Supply wiring space	1 1 1 2	N/A
G.7.6.1	General requirements	The White White	N/A
G.7.6.2	Stranded wire	at the fift	N/A
G.7.6.2.1	Requirements	MULTE WALL WALL	N/A
G.7.6.2.2	Test with 8 mm strand	et tet tet	N/A
G.8	Varistors	any any any a	N/A
G.8.1	General requirements	LEK LIEK OLIEK IN	N/A
G.8.2	Safeguards against fire	An an a	N/A
G.8.2.1	General	White White White	N/A
G.8.2.2	Varistor overload test	at at at	N/A
G.8.2.3	Temporary overvoltage test	MULT MAL MALL	N/A
G.9	Integrated circuit (IC) current limiters	TER TER STER O	N/A
G.9.1	Requirements	is my my my	N/A
ie white	IC limiter output current (max. 5A):	SEX OLIEX MITER MILE	- 1nv
t zet	Manufacturers' defined drift:		A -
G.9.2	Test Program	CITE WITE WITE	N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
Mr.	M W W THE STATE OF	white white whi whi	200	
G.9.3	Compliance		N/A	
G.10	Resistors	Write Mury Mur Mur	N/A	
G.10.1	General	of let tet tet	N/A	
G.10.2	Conditioning	The The The The	N/A	
G.10.3	Resistor test	t tiek stiek witer and	N/A	
G.10.4	Voltage surge test	111 11 11 11 11 11 11 11 11 11 11 11 11	N/A	
G.10.5	Impulse test	CLIER WILLER WALLE WALL	N/A	
G.10.6	Overload test	at the left test	N/A	
G.11	Capacitors and RC units	WILL MULL MULL MULL	N/A	
G.11.1	General requirements	at the text of the co	N/A	
G.11.2	Conditioning of capacitors and RC units	were lay to an	N/A	
G.11.3	Rules for selecting capacitors	- TEK STEK STEK SINT	N/A	
G.12	Optocouplers	The ship of	N/A	
MUTT CH	Optocouplers comply with IEC 60747-5-5 with specifics	Write Milite White White	N/A	
VILL OUR	Type test voltage V <sub>ini,a</sub> :	All MILITER WHITE IN	_	
ek del	Routine test voltage, V <sub>ini, b</sub> :	the set of	_	
G.13	Printed boards	White Aut Mrs. Mrs.	Р	
G.13.1	General requirements	Approved Printed board used	P	
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements	P	
G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A	
G.13.4	Insulation between conductors on the same inner surface	white white white white	N/A	
G.13.5	Insulation between conductors on different surfaces	The Mary Mary May a	N/A	
TER WITE	Distance through insulation:	It Tex Tex wifes of	N/A	
	Number of insulation layers (pcs):	my my my su	_	
G.13.6	Tests on coated printed boards	THE THE STATE OF	N/A	



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
an .	nd and the state of the	MALL WALL OF	Ver Me
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance	WILL MULL MULL MU	N/A
G.14	Coating on components terminals	it set the the	N/A
G.14.1	Requirements:	y, Mur. Mur. Mir.	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	m m	N/A
G.15.2	Test methods and compliance	WITER WITER WALTER W	N/A
G.15.2.1	Hydrostatic pressure test	at st set a	N/A
G.15.2.2	Creep resistance test	The Multiplant May Must	N/A
G.15.2.3	Tubing and fittings compatibility test	et set set stell	N/A
G.15.2.4	Vibration test	Any Any Any	N/A
G.15.2.5	Thermal cycling test	- TER STER STER	N/A
G.15.2.6	Force test	111 211 21	N/A
G.15.3	Compliance	WITE WILL MULLE AND	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required	No such IC used	N/A
IEK NITE	ICX with associated circuitry tested in equipment	THE LIEF	N/A
	ICX tested separately	mr. m. m.	N/A
G.16.2	Tests	LIER ALTER MATERIAL	N/A
unliek wh	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	The Till Still Miles	iek –
LIEN MALIE	Mains voltage that impulses to be superimposed on:	Et Jet Jiet Mile	
EK JULIEK	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	TEL LIER SLIER	mil –
G.16.3	Capacitor discharge test:	Mr. Mr. An	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	a at at a	N/A
H.2	Method A	KITE MALTE MALE MALE	N/A
H.3	Method B	at let let itel	N/A
H.3.1	Ringing signal	Aury Aug Ang	N/A
H.3.1.1	Frequency (Hz)	THE THE THE	NLTE



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20,	IEC 62368-1	in mer and and	an an
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1.2	Voltage (V)	Their mer was	The -
H.3.1.3	Cadence; time (s) and voltage (V):	NITE WALTER WALTER ON	P <sup>2</sup>
H.3.1.4	Single fault current (mA)::	at at all a	E _
H.3.2	Tripping device and monitoring voltage	The min with min	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Whitek Whitek White	N/A
H.3.2.2	Tripping device	TEK STEK STEE	N/A
H.3.2.3	Monitoring voltage (V):	The same	N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General	IER WILL WITE WALL	N/A
t Jet	Winding wire insulation:	A ST ST	
in.	Solid round winding wire, diameter (mm):	White Mile Mile	N/A
MALIER	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	INLIER WHITER WHITER	N/A
J.2/J.3	Tests and Manufacturing	ALL STEEL OF	TEN LITER N
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	E ALTE MITTE	N/A
- Let	Instructional safeguard::	The state of the	N/A
K.2	Components of safety interlock safeguard mech	anism	N/A
K.3	Inadvertent change of operating mode	at let let	N/A
K.4	Interlock safeguard override	ner mer mer m	N/A
K.5	Fail-safe	TEX ITEX NITEX MIT	N/A
K.5.1	Under single fault condition	in a a	N/A
K.6	Mechanically operated safety interlocks	A WILLER WHILE MULTER	N/A
K.6.1	Endurance requirement	a at at	N/A
K.6.2	Test method and compliance:	WALLE WALL WALL V	N/A
K.7	Interlock circuit isolation	let let litet i	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	t it in in	N/A
- 11h	In circuit connected to mains, separation distance for contact gaps (mm):	MULL MULL MULL	N/A



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11010101100	No.: WITE IBOUZIONE	1 age 01 6176	<u> </u>	
The Muri		IEC 62368-1		
Clause	Requirement + Test	Mure Maria	Result - Remark	Verdict

.Et	In circuit isolated from mains, separation distance	All the left that	N/A
wr. a	for contact gaps (mm):	CLIEB WILLE WALL MALL	ener.
	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):	70 2	N/A
K.7.3	Endurance test	MILE WHILE WHILE WHILE	N/A
K.7.4	Electric strength test	at the set set	N/A
Palls.	DISCONNECT DEVICES	WHITE WALL WALL WALL	N/A
L.1	General requirements	LET LET LIET SLIET	N/A
L.2	Permanently connected equipment	The Man Man Man	N/A
L.3	Parts that remain energized	EX STER OUTER WATER ON	N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment	MITE WALTER WALTER WALTER	N/A
L.6	Switches as disconnect devices	at at all all	N/A
L.7	Plugs as disconnect devices	Neit Mery Mery Mery	N/A
L.8	Multiple power sources	ART LIFET MITER	N/A
	Instructional safeguard:	-1 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	N/A
M John	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	m <sup>LI</sup> P
M.3	Protection circuits for batteries provided within the equipment	TER MITER WALTER WAITER ON	TE P
M.3.1	Requirements	A A A A A S	P
M.3.2	Test method	MUTE AND MUTE MUTE	Р
	Overcharging of a rechargeable battery	(See appended table Annex M)	n P
	Excessive discharging	(See appended table Annex M)	Р
	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A



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IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
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	ILTEK MI		
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	White White		
M.4.1	General	x 14 14 10	Р		
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.	TEK JUNI		
M.4.2.1	Requirements	LIEK SLIEK WITER WALTER	WP.		
M.4.2.2	Compliance:	(See appended table M.4.2)	Р		
M.4.3	Fire enclosure:	Only PS1 circuit, no fire enclosures or barriers required	N/A		
M.4.4	Drop test of equipment containing a secondary lithium battery	White white white whi	Р		
M.4.4.2	Preparation and procedure for the drop test	NITES INLIES MILE WHILE	SIP.		
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	UNLT P		
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	LIEKP VIII		
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	, P		
M.4.4.6	Compliance	THE LIFE SLIFE MITE	N/A		
M.5	Risk of burn due to short-circuit during carrying		Р		
M.5.1	Requirement	No bare conductive terminal used	NE P.W		
M.5.2	Test method and compliance	TEX RITER WATER WATER WAY	N/A		
M.6	Safeguards against short-circuits		- Pa		
M.6.1	External and internal faults	THE NATIONAL WALL WALL	N/A		



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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.	White was	
M.7	Risk of explosion from lead acid and NiCd batter	ries	N/A	
M.7.1	Ventilation preventing explosive gas concentration	MULL MULL MULL MULL	N/A	
CLIER.	Calculated hydrogen generation rate:	THE THE LIFE MATER	N/A	
M.7.2	Test method and compliance	Mr. Mr. Ang. An	N/A	
Write AW	Minimum air flow rate, Q (m³/h)	LIET SLIET WALTER WALTER	N/A	
M.7.3	Ventilation tests		N/A	
M.7.3.1	General	E WALL MALL MALL WA	N/A	
M.7.3.2	Ventilation test – alternative 1	· let let liet silt	N/A	
20,	Hydrogen gas concentration (%)	MULT ME ME ME	N/A	
M.7.3.3	Ventilation test – alternative 2	TEX TIES WITER WITER	N/A	
*	Obtained hydrogen generation rate:	The state of the s	N/A	
M.7.3.4	Ventilation test – alternative 3	THE WALL WALL OF	N/A	
EK CIE	Hydrogen gas concentration (%)	# 1.th .	N/A	
M.7.4	Marking:	Write Mur Mur Mr.	N/A	
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A	
M.8.1	General	Et TET TET STEET	N/A	
M.8.2	Test method	ing my my my	N/A	
M.8.2.1	General	TEX STEEL WITER WITER ON	N/A	
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s):	Ni A A	*6	
M.8.2.3	Correction factors:	WALTER WALTER WALTE VIAL	Toler .	
M.8.2.4	Calculation of distance d (mm):	at at alt and	C.E.K	
M.9	Preventing electrolyte spillage	MUTT MUT AND MINE	N/A	
M.9.1	Protection from electrolyte spillage		N/A	
M.9.2	Tray for preventing electrolyte spillage	1. M. M. 2.	N/A	
M.10	Instructions to prevent reasonably foreseeable misuse	EX WALLEY WALLEY WAS	N/A	
White.	Instructional safeguard:	LIER ALTER ALTER MALE	N/A	



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TOTOTOTO	110 WII 24D032134721	r age 37 of 73		
The MULL		IEC 62368-1		
Clause	Requirement + Test	in with the man	Result - Remark	Verdict

N et	ELECTROCHEMICAL POTENTIALS	N/A
West M	Material(s) used:	21/2
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
7/1	Value of <i>X</i> (mm)	2,
Partie	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	N/A
P.1	General	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object	N/A
P.2.1	General	N/A
P.2.2	Safeguards against entry of a foreign object	N/A
ITEK WALTE	Location and Dimensions (mm):	11 <sup>150</sup> -01
P.2.3	Safeguards against the consequences of entry of a foreign object	N/A
P.2.3.1	Safeguard requirements	N/A
MUTTER D	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	N/A
ALTE WAL	Transportable equipment with metalized plastic parts:	N/A
P.2.3.2	Consequence of entry test:	N/A
P.3	Safeguards against spillage of internal liquids	N/A
P.3.1	General	N/A
P.3.2	Determination of spillage consequences	N/A
P.3.3	Spillage safeguards	N/A
P.3.4	Compliance	N/A
P.4	Metallized coatings and adhesives securing parts	N/A
P.4.1	General	N/A
P.4.2	Tests Test Willer Williams Williams	N/A
11/2 1	Conditioning, T <sub>C</sub> (°C):	1/10_
NITEK IN	Duration (weeks):	NITE !
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
Q.1	Limited power sources	N/A
Q.1.1	Requirements	N/A
Mr.	a) Inherently limited output	N/A



N/A

N/A

N/A

N/A

in the	IEC 62368-1	in and
Clause	Requirement + Test Result - Remark	Verdict
2hr	with the state of the state with white white white white	m.
At .	b) Impedance limited output	N/A
11/2 21	c) Regulating network limited output	N/A
	d) Overcurrent protective device limited output	N/A
22	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance:	N/A
N.L.TEE	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
,	Maximum output current (A):	N/A
TE WALT	Current limiting method:	120 -10
R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General Company of the Company of th	N/A
R.2	Test setup	N/A
19, 2	Overcurrent protective device for test:	10, -
R.3	Test method	N/A
st st	Cord/cable used for test:	e+
R.4	Compliance	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
mr. m	Samples, material:	100
16th J	Wall thickness (mm)	JE

Conditioning (°C)....

Test flame according to IEC 60695-11-5 with

- Material not consumed completely

- No burning of layer or wrapping tissue

- Material extinguishes within 30s

conditions as set out



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TCICICIOC	110 1111 240052 154721	1 agc 55 61 7 c	<u> </u>	
The Whin		IEC 62368-1		
Clause	Requirement + Test	TE WILL WAS AN	Result - Remark	Verdict

	Conditioning (°C):	1 A A A	100
S.3	Flammability test for the bottom of a fire enclosur	ire it with with win	N/A
S.3.1	Mounting of samples	at let let let	N/A
S.3.2	Test method and compliance	Section 20 The Section 20	N/A
	Mounting of samples	t TEX STEX BUTER ON	100
	Wall thickness (mm):	an an a	-
S.4	Flammability classification of materials	OLIE WALTER WALTER WALTER	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	THE MILIER WALTER WALTER	N/A
in mil	Samples, material:	EX RITER MILE WALLE W	-on
£ 518	Wall thickness (mm):	at the state of	* =
741	Conditioning (°C):	MULL MULL MULL MILL	1/2
Tallet	MECHANICAL STRENGTH TESTS	TEX TEX LIFE SLITE	N/A
T.1	General	Mur Aug Au	N/A
T.2	Steady force test, 10 N:	ALL MITE WALLE V	N/A
T.3	Steady force test, 30 N:	the set of	N/A
T.4	Steady force test, 100 N:	" WILL MUT, MUT, MUT, MU	N/A
T.5	Steady force test, 250 N:	LET LET LET LITE	N/A
T.6	Enclosure impact test	mur mur mur mi	N/A
UNITE OF	Fall test	THE STEE NITES WITE	N/A
*	Swing test	The state of the s	N/A
T.7 🧬	Drop test:	(See appended table T.7)	N/A
T.8	Stress relief test:	(See appended table T.8)	N/A
T.9	Glass Impact Test:	(See appended table T.9)	N/A
T.10	Glass fragmentation test	TEK TEK TIEK BUTER	N/A
	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas	LIER OLIER WITE WHITE	N/A
IEK MI	Torque value (Nm):	No such antennas provided within the equipment.	N/A



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TCICICIOC	140 11 11 24 000 2 10 47 2 1	1 agc 40 01 73	<u> </u>	
THE WALL		IEC 62368-1		
Clause	Requirement + Test	in mile me m	Result - Remark	Verdict

U EK	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		
U.1	General	me and an a	N/A
ite mi	Instructional safeguard :	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A
U.3	Protective screen	at the title of	N/A
$\Lambda_{\eta_s}$	DETERMINATION OF ACCESSIBLE PARTS	White Marin Mar Mar	N/A
V.1	Accessible parts of equipment	LET LET LIET LIET	N/A
V.1.1	General	er mr. m. m.	N/A
V.1.2	Surfaces and openings tested with jointed test probes	EL WHITE WHITE WHITE AND	N/A
V.1.3	Openings tested with straight unjointed test probes	LIER STEE BUTER WALT	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	An an an an	N/A
V.1.5	Slot openings tested with wedge probe	WITE WALL MALLE WALL	N/A
V.1.6	Terminals tested with rigid test wire	The set	N/A
V.2	Accessible part criterion		N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLE IN CIRCUITS CONNECTED TO AN AC MAINS NOT (300 V RMS)		N/A
ang.	Clearance:	WILL MILL MULL MILL	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	TEX STEP NUTER ONLINE ON	N/A
Y.3	Resistance to corrosion	an an an	N/A
Y.3	Resistance to corrosion	A WILL AVELLE MUSICE AND	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	BLIEF MILES WALLES WALLES	N/A
Y.3.2	Test apparatus	at the left left	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	THE MULL MULL MULL	N/A
Y.3.4	Test procedure	it telt that street is	N/A
Y.3.5	Compliance	me me me	N/A
Y.4	Gaskets	THE LIFE SLIFE WITH	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
ale,	Will the the the the	alter mit white	me m
Y.4.1	General	The state of	N/A
Y.4.2	Gasket tests	MLIE WALT WALT	N/A
Y.4.3	Tensile strength and elongation tests	A A AT	N/A
70	Alternative test methods:	in mer mer m	N/A
Y.4.4	Compression test	et the little out	N/A
Y.4.5	Oil resistance	24. 24. 24.	N/A
Y.4.6	Securing means	NITER MITER WALTER	N/A
Y.5	.5 Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General	WILLER WALLE MALL W	N/A
Y.5.2	Protection from moisture	at let let i	N/A
- J.,	Relevant tests of IEC 60529 or Y.5.3:	me me m	N/A
Y.5.3	Water spray test	I TEX STEX OUTE	N/A
Y.5.4	Protection from plants and vermin	20, 20, 20,	N/A
Y.5.5	Protection from excessive dust	OLIER MITE WALLE	N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment	2 July M	N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures	Mr. M. M.	N/A
Y.6.1	General	ALTER ALTER MALTER	N/A
Y.6.2	Impact test:	14, 14, 14	N/A



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I CEICICIICE IN	0 VV 11 24D092134721	rage 42 01 73		
Le MULL		IEC 62368-1		Will Mill Mill
Clause	Requirement + Test	is must my m	Result - Remark	Verdict

#### ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No.....: EU\_GD\_IEC62368\_1E

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

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

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- me	CENELEC COMMON MOD	IFICATIONS (EN)	Р
WALTER W	IEC 62368-1:2020+A11:202 those in the paragraph belo	that are shaded light grey are clause references in EN 20. All other clause numbers in that column, except for w, refers to IEC 62368-1:2018.  , tables, figures and annexes which are additional to are prefixed "Z".	L PIE WALTER
it with	Add the following annexes:	TEX TEX TEX TOTAL MILLS AND THE	Pol
	Annex ZA (normative)	Normative references to international publications with their corresponding European publications	EX INL
	Annex ZB (normative)	Special national conditions	10.
	Annex ZC (informative)	A-deviations	JE
	Annex ZD (informative)	IEC and CENELEC code designations for flexible cords	41/2
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 6236	8-1 with the following definitions:	N/A
3.3.19.1	momentary exposure level metric for estimating 1 s southe HD 483-1 S2 test signal channels, based on EN 503:  Note 1 to entry: MEL is mealevels in dB.  Note 2 to entry: See B.3 of ladditional information.	nd exposure level from applied to both 32-1:2013, 4.2. asured as A-weighted	N/A white white white



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alve	IEC 62368-1	LIER WILL WALL WALL	Mrs. Mrs.
Clause	Requirement + Test	Result - Remark	Verdic
3.3.19.3	sound exposure, E  A-weighted sound pressure (p) squared and integrated over a stated period of time, T	WALTER WALTER WALTER	N/A
	Note 1 to entry: The SI unit is Pa <sup>2</sup> s. $E = \int_{0}^{T} p(t)^{2} dt$	Witek Multer Multer Multer	
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.	Whitek whitek whitek	N/A
	Note 1 to entry: SEL is measured as A-weighted levels in dB.	LEEK WALTER WALTER WALT	iek naziek na - Tek ite
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	e white white with	WILE MILES
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	inti war war o	at let
3.3.19.5	digital signal level relative to full scale, dBFS 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 Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is	TE WALTE WALTER WALTE	N/A
irek miti	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.	while whilet whilet whi	itek an itek an
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	Introduction 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:	MATE WALTER WALTER WALTER	WINA  LIET WILLEY  WALLEY  WALLEY  WALL  LIET  WALL  WALL  LIET  WALL  W



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
apr.	Mr. An The The	CHILL WILL WALL	Mr. Mr.
	- is designed to allow the user to listen to audio or	10. 1.	A 18
	audiovisual content / material; and	TEX CLER STEE	The Marie
	<ul> <li>uses a listening device, such as headphones or earphones that can be worn in or on or</li> </ul>	the the the 2	
	around the ears; and	s at at .	TEN TEN
	- has a player that can be body worn (of a size	THE MITE WALL WAS	111, 111
	suitable to be carried in a clothing pocket) and is	70	<u>.</u> + ,
	intended for the user to walk around with while in	the little little	" Inti Inti
	continuous use (for example, on a street, in a	The Me in	300
	subway, at an airport, etc.).	a at at	TEN TEN
	EXAMPLES Portable CD players, MP3 audio	WITE MILL WALL	21/2
	players, mobile phones with MP3 type features,	20, 2	1 1
	PDAs or similar equipment.	TEN TEN LITER O	Little Miles
	Damagnal marrie players aball somethy with the	here were con an	
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	a at at a	Chr. Chr.
	requirements of chiler 10.0.2 of 10.0.0.	THE WILL WITH WAL	211 211
	NOTE 1 Protection against acoustic energy	200 0	
	sources from telecom applications is referenced to	THE THE STIE	WILL SULL
	ITU-T P.360.	The Mr. M.	10
	NOTE 2 It is the intention of the Committee to allow	at at at	TEX TIES
	the alternative methods for now, but to only use the	WITE WITE WILL A	200
	dose measurement method as given in 10.6.5 in		* 2+
	future. Therefore, manufacturers are encouraged to	LET OF LITER OF	Liter and Liter and
	implement 10.6.5 as soon as possible.	2 20, 20,	37
	Listening devices sold separately shall comply with		J. J. J. J.
	the requirements of 10.6.6.	MILL WALL WALL	21/2
	These requirements are valid for music or video	20.	24 20
	mode only.	TEX TEX LITE	WILL WILL
	The requirements do not apply to:	The Mr. M.	2.
	- professional equipment;	It it let	TER LIER
	NOTE 3Professional equipment is equipment sold	with white where w	Car Aller
	through special sales channels. All products sold		it let
	through normal electronics stores are considered	CENT LIER NITE WIL	in the sale
	not to be professional equipment.	1 Mr. M. 2.	
	hearing aid equipment and other devices for	LER TEX TE	t all the mil
	assistive listening;	West When Man	211.
	the following type of analogue personal music	t at	LET LET
	players:	LIER MITE MITE	anti ant
	long distance radio receiver (for example, a	110. 211. 20.	
	multiband radio receiver or world band radio receiver, an AM radio receiver), and	at at the	LIER LIE
	• cassette player/recorder;	in min mer m	2, 2
			et et.
	NOTE 4 This exemption has been allowed because	ist after out only	The M.
	this technology is falling out of use and it is	24, 24, 24	
	expected that within a few years it will no longer	the tell till	CLIE WITE
	exist. This exemption will not be extended to other technologies.	WILL MUT. MUT.	20,



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
AND TEX ONLY	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> <li>For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.</li> <li>The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.</li> </ul>	ALIER WALTER WALTER WALTER	TEX UNITEX ON LIFE OF THE LIFE
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz  The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).  For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	LITELY MALIER WALTER WALTER  MALIER WALTER WALTER  MALIER WALTER WALTER  MALIER WALTER WALTER  MALIER WALTER  M	N/A
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	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.  For classifying the acoustic output LAeq, T, measurements are based on the A-weighted	The State State	N/A
	equivalent sound pressure level over a 30 s period.  For music where the average sound pressure (long term <i>L</i> Aeq, <i>T</i> ) 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, <i>T</i> becomes the duration of the song.	JUNITER WHITE WHITE	united united
NLIEK WILLEK	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</i> ) 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	LIEK WALTER WALTER WALTER	



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21/2	IEC 62368-1	it with with white	21/2 241
Clause	Requirement + Test	Result - Remark	Verdict
Mr.	MI M THE STATE	White and Mark	any any
	exceed the required limit.	200	A 15
	For example, if the player is set with the	of the the	The Wille
	programme simulation noise to 85 dB, but the	CLIL WELL WITH A	$v_{r} \sim v_{r}$
	average music level of the song is only 65 dB,	200	
	there is no need to give a warning or ask an	at at at .	TEN STEEL OF
	acknowledgement as long as the average sound	The Carl Mark Carl	24. 24
	level of the song is not above the basic limit of 85	20, 20, 20	. 4
	dB.	t at at se	
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	MUCH AND AND	N/A
	RS1 is a class 1 acoustic energy source that does	LIEF NITES WIFE	WALTER WALTER
	not exceed the following:	11/2 21, 22,	
	- for equipment provided as a package (player with	1 1 1	THE THE
	its listening device), and with a proprietary	THE LIFE OUT A	77 100 1
	connector between the player and its listening	2 My 24 24	
	device, or where the combination of player and	. 4 4	et et
	listening device is known by other means such as	Et JET JET W	10. 10.
	setting or automatic detection, the LAeq, T acoustic	The April 10	7.
	output shall be ≤ 85 dB when playing the fixed	1 1	. d+ de
	"programme simulation noise" described in EN	The the time	WIT WILL
		and who were	20, 2,
	50332-1.		at at
	- for equipment provided with a standardized	THE THE CLEAN	LIFE WILL
	connector (for example, a 3,5 phone jack) that	White the same	11. 25.
	allows connection to a listening device for general		1 1
	use, the unweighted r.m.s. output voltage shall be ≤	At All Control	The street of
	27 mV (analogue interface) or -25 dBFS (digital	11/2 24	. 11 22
	interface) when playing the fixed "programme		1 1 .
	simulation noise" described in EN 50332-1.		
	- The RS1 limits will be updated for all devices as	The water was	211.
	per 10.6.3.2.	10 2 ct	_64 _64
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	WALTER WALTER WALTER	N/A
		1 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	RS2 is a class 2 acoustic energy source that does	LET THE THE	William Por
	not exceed the following:	to the the t	, ,
	- for equipment provided as a package (player with		1 1
	its listening device), and with a proprietary	at the state of	11 11 11
	connector between the player and its listening	e were mur any	20, 20,
	device, or when the combination of player and	37	L ) t x
	listening device is known by other means such as	- Let LEK JE	The last
	setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i>	THE WALL WALL	21/2 21/2
	acoustic output shall be ≤ 100 dB(A) when playing	20, 2,	at the
	the fixed "programme simulation noise" as	A ST SET	TEL SILE
	described in EN 50332-1.	alter with white	ar ar
	– for equipment provided with a standardized	74 24 20	
		4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE CLEAN
	connector (for example, a 3,5 phone jack) that	LIE SLIP OLD SI	5 21 21
	allows connection to a listening device for general	211, 24, 24,	
	use, the unweighted r.m.s. output voltage shall be ≤	1 1 1	et et
	150 mV (analogue interface) or -10 dBFS (digital	The The Will	The Mr.
	interface) when playing the fixed "programme	The The La	
- 4	simulation noise" as described in EN 50332-1.		
10.6.2.4	RS3 limits	WILL SULLE WALL	N/A
	RS3 is a class 3 acoustic energy source that		



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Telefelice	110 1111 240032 134721	1 age 47 01 73	,	
The William		IEC 62368-1		
Clause	Requirement + Test	The Mile My M	Result - Remark	Verdict

	exceeds RS2 limits.		164
10.6.3	Classification of devices (new)	LIER STEEL WITE SUITE SHEET	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.	TER WHITER WHITER WHITER WHITER	N/A
10.6.3.2  NUTEK WALTE  WALTER  WALTER	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening 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>T</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	untick un	N/A
10.6.3.3	RS2 limits (new) RS2 is a class 2 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and	MULTER WHITER WHITER WHITER	N/A
	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 EN	EX UNLIER WHITER	
TER WHITE WHITE WHITE WHITE WHITE WHITE WHITE WHITE	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	LEK WILLEK WILLE	TEEL SUP



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24	IEC 62368-1	it with other wife	24, 24,
Clause	Requirement + Test	Result - Remark	Verdict
apr.	M M The The	WILL WILL MILL	Mr. Mr.
	All volume controls shall be turned to maximum		et et
	during tests.	LET THE LITER	THE WALL
	M	Wer Ave Ave A	,
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	A A At At .	TEN LIEN O
10.6.4.2	Protection of persons	in with any	N/A
	Except as given below, protection requirements for	1 1 1 1	* <* 3
	parts accessible to ordinary persons, instructed	the little still will	are are
	persons and skilled persons are given in 4.3.	24. 24. 24.	
	att the sure sure sure	. It let let	JER JIE
	NOTE 1 Volume control is not considered a	CLIFE WILL WAL	21/2
	safeguard.	21, 2,	4 14
	Between RS2 and an <b>ordinary person</b> , the <b>basic</b>	Let let let	LIE CLIV
	safeguard may be replaced by an instructional	Till Mer Mer M	2, 3
	safeguard in accordance with Clause F.5, except		et lit.
	that the instructional safeguard shall be placed	LEK STER SLIFE MI	in in
	on the equipment, or on the packaging, or in the	The Mr. In	
	instruction manual.	. L 14 18	· _{(6)}
	Alternatively, the instructional safeguard may be	LITE OLIVE MIN	ave ave
	given through the equipment display during use.	14. 14. 15.	4 1
	site with the the sale of	at let let	LIER RUIE
	The elements of the instructional safeguard shall	WILL MULL WALL	ne in
	be as follows:		* *
		THE STATE OF	Lite and Lite and
	– element 1a: the symbol , IEC 60417-6044	21 242 241	2,
	(2011-01)		the set of
	<ul><li>– element 2: "High sound pressure" or equivalent</li></ul>	the life will will	Wer whi
	wording	Mr. In In	
	<ul> <li>element 3: "Hearing damage risk" or equivalent</li> </ul>	A ST SET	16th 15th
	wording	WITE WITE WALK	11/1 11/1
	- element 4: "Do not listen at high volume levels for	24, 25,	4
	long periods." or equivalent wording	at let set	LITER WITE
	An <b>equipment safeguard</b> shall prevent exposure	The War was a	in the s
	of an <b>ordinary person</b> to an RS2 source without		at at
	intentional physical action from the <b>ordinary</b>	LEK STER STEE WIT	an an
	person and shall automatically return to an output	in the m	
	level not exceeding what is specified for an RS1	1 1 1 10	t 15th 51
	source when the power is switched off.	LIE WITH WALL	mr. m
	THE THE STEE STEE WALL WALL WITH	20, 20, 2	14 ct
	The equipment shall provide a means to actively	at the the	ALTE CLIP
	inform the user of the increased sound level when the equipment is operated with an output	inti with with	20,
	exceeding RS1. Any means used shall be		at at
	acknowledged by the user before activating a mode	TEX JEX JER S	LIL MED.
	of operation which allows for an output exceeding	Up all all all	7
	RS1. The acknowledgement does not need to be		et et .
	repeated more than once every 20 h of cumulative	Car They with the	and any
	listening time.	24, 24, 25,	
	the will mill my my me	at at at	TE TE
	NOTE 2 Examples of means include visual or	" WITE WITE WITE	Mr. Mr.
	audible signals. Action from the user is always	24. 25. 2	d.



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
whitek whitek	needed.  NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.  A skilled person shall not be unintentionally exposed to RS3.	NUTER WHITE WHITER WHITER	MULTER WILLER
10.6.5	Requirements for dose-based systems	t t	N/A
10.6.5.1 White whi	General requirements  Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.  The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to 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.	untic while	N/A  N/A  N/A  N/A  N/A
MULTER WA	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.	MULTER WHITER WHITER	while whiles
	Dose-based warning and requirements  When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.  The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss.	LEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK	N/A
10.6.5.3	Exposure-based requirements		N/A
y whitek	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-	White white white	White white



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Alex.	term sound level a user can listen at.	White white whi	The thi
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3.  The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	TEK WALTER WALTER WALTER	INTER WITER WA
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	Whitek wh	UNLIE WALTER  LIEK VALTER  UN  EK WA  LEK WA
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	Mur Mer M	The Contract
10.6.6	Requirements for listening devices (headphones	s, earphones, etc.)	N/A
	Corded listening devices with analogue input With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.	MILIER WHITER WHITER	N/A  I N/A
ITEK MALT	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	tek litek nijek mi	TEK NY
	Corded listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	United whited whited whited who had a server whited	N/A N/A N/A N/A
10.6.6.3	Cordless listening devices In cordless mode,  – with any playing and transmitting device playing the fixed programme simulation noise described in	Whitek Muriek Muriek	N/A



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- apr	a,	20		IEC 6	2368-1	The street of	the wife in	211.
Clause	R	equirement +	Test	JULIA.	m. m.	Result - Rema	ark	Verdic
whitek w	- which the control of the control o	here an air in the equivalent with volume evice (for exa dditional soun the combinal reasured aco rogramme sin utput of the li	and the cordless transferface stand acoustic level and sound seample, built-in and features like ation of position stic output for mulation noise stening device of -10 dBFS.	ard exists the control of the contro	receiving el control, on, etc.) set cimize the mentioned <i>T</i> acoustic	ALTER WHITER  WHITER WHITER  WHITER WHI	UNLIEK WHITEK WHITEK WHITEK W ITEK WHITEK WHI	MILITER OF THE MINISTER
10.6.6.4	M	easurement		le in accord	ance with	STEK STEK	NLTEX WALTER	N/A
3		N 50332-2 a	s applicable.	document	"" " "	2011	n, a	N/A
- Jek		elete all the			erence docum	nent according	to the following	N/A
	21/2	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	2/L
	Wile	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	MALTER
	ΪĘ	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	T.LTEX W
	.m *≠	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	EX
	.15.LT	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	4 INLIES
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	RLIEK
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	TEX
	, 12 12	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	EX WINTE
	115	10.6.1	Note 3	F.3,3.6	Note 3	Y.4.1	Note	TEX
	16.k	Y.4.5	Note					MUL
4	М	odification	to Clause 1					N/A
TEX WALTE	A N	dd the follow	ing note: use of certain equipment is				itek mutek mi	n/a
5		odification			A (A)			N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
ano 1	W W THE THE	WITE WITE WALL AND	an.
4.21 A WALLEY WA	Add the following new subclause after 4.9:  To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):  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 providing protection in accordance with the rating of the wall socket outlet.	TER WILLER WHITER WHITE	N/A
6 5.4.2.3.2.4	Modification to 5.4.2.3.2.4	No connection to external	N/A N/A
J.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.	circuit.	IN/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
8	Modification to 10.5.1		N/A



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TOTOTOTO	110 WIII 24D002104721	1 age 00 01 70	<u> </u>		A TO
ALL WALL		IEC 62368-1			MULL
Clause	Requirement + Test	Mr. Mr. M.	Result - Remark	LEK LE	Verdict

10.5.1	Add the following after the first paragraph:	No such radiation from the	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	equipment.	int.
	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.	Whitek	Maries Maries Maries
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	LIER WHITER WHITE WHITE	AVEY. A
	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.	White white white wh	ier murie
	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.	ALTER WALTER WALTER WALTER	WALTER W
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	White white white	TEX MUT
WALTEK.	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	STEEL STEEL SPITES SPITE	EN ANDTLES
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.	TEX MILIER MALIER WALTER	N/A
10	Modification to Bibliography		N/A



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Reference	NO.: W1F24D092154721	Page 54 01 75			A R
The While		IEC 62368-1			
Clause	Requirement + Test	Muris My Call	Result - Remark	LEK LE	Verdict

11/2 1	4. 2, 2,	C SC TEN TEN STEP STEP INTO WALL	Mr. M.
	Add the following notes	for the standards indicated:	N/A
	IEC 60130-9 NO	DTE Harmonized as EN 60130-9.	AUT.
		OTE Harmonized as HD 60269-2.	4
	IEC 60309-1 NO	DTE Harmonized as EN 60309-1.	CLIFE ON
	IEC 60364 NO	DTE some parts harmonized in HD 384/HD 60364 series	s. 201 - 201
	IEC 60601-2-4 NO	DTE Harmonized as EN 60601-2-4.	A 18
	IEC 60664-5 NO	DTE Harmonized as EN 60664-5.	Still White
	IEC 61032:1997 NO	DTE Harmonized as EN 61032:1998 (not modified).	77
	IEC 61508-1 NO	DTE Harmonized as EN 61508-1.	Lik LEK
	IEC 61558-2-1 NO	DTE Harmonized as EN 61558-2-1.	alet
	IEC 61558-2-4 NO	DTE Harmonized as EN 61558-2-4.	
		DTE Harmonized as EN 61558-2-6.	- KEP
		DTE Harmonized as EN 61643-1.	240 11
		DTE Harmonized as EN 61643-21.	
		DTE Harmonized as EN 61643-311.	STEEL ST
		OTE Harmonized as EN 61643-321.	ne che
	IEC 61643-331 NO	DTE Harmonized as EN 61643-331.	16 18
11	ADDITION OF ANNEXE	:S	VY
ZB	- A	IATIONAL CONDITIONS (EN)	N/A
4.1.15	Denmark, Finland, Nor		N/A
	To the end of the subcla added:  Class I pluggable equil for connection to other e shall, if safety relies on cearthing or if surge supp between the network temparts, have a marking standard be connected to an outlet.  The marking text in the a shall be as follows:	pment type A intended quipment or a network connection to reliable ressors are connected minals and accessible ating that the equipment earthed mains socket-applicable countries	LIEK WILLEK WILLER WILLEK WILL
	In <b>Denmark</b> : "Apparatets en stikkontakt med jord stikproppens jord." In <b>Finland</b> : "Laite on liite varustettuun pistorasiaal In <b>Norway</b> : "Apparatet matikkontakt" In <b>Sweden</b> : "Apparaten suttag"	som giver forbindelse til ettävä suojakoskettimilla n" nå tilkoples jordet	MULTER WHITER



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TE WALT	10: W1 2 13:002 10 11 21 11 12 1	IEC 62368-1	EK NIFEK INITER INIT	WALLE WILL
Clause	Requirement + Test	MULL ME M	Result - Remark	Verdict
Mes	71, 71, 7	THE STATE OF THE	WILL WALL WALL	1115 111

we will	THE SEPTEMBER OF THE SE	with with only and	" The
4.7.3	United Kingdom  To the end of the subclause the following is added:	LIET SLIET WILET WHIE	N/A
	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	TEK WALTER WALTER	on the of
5.2.2.2	Denmark After the 2nd paragraph add the following:	No high touch current measured.	N/A
NIEK INI	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.	and and and an	NLTEK.
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:	et wifet wifet whitek	INITEK UIN
	For separation of the telecommunication network from earth the following is applicable:	TEX SUTEX SUTEX	ITE WALTE
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	TEX TEX WIFE WIFE	MALTER
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	or who we will the	MATER IN
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	while while while	NI EX WAT
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Whitek whitek whitek whitek	EK WALTE WALTEK WALTEK
	<ul> <li>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),</li> </ul>	Whitek whitek whitek whi	LIFE WINLI
	and	at at let let	LIEN
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	ex writes mark marks	uriek anj
MUSTER W	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	MULTER WHITER WHI	TE - WALTE



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
MUTIEK MI	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	White Whitek whitek	Writer Writer	
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	TER WALTER WHITER WAL	TEX VIVE VIVE	
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	White while while	ALLER AUTER AN	
ITEK WALTE	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.	Et Martet marifes war	iek aniek ani	
5.5.2.1	Norway  After the 3rd paragraph the following is added:  Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Whitek whitek whitek	N/A	
5.5.6	Finland, Norway and Sweden	at the same	N/A	
	To the end of the subclause the following is added:	2 July 24		
	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.	white white white	et while while	
5.6.1	Denmark	They have an	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: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	NUTER WALTER WALTER WAL	nutel muter was	
5.6.4.2.1	Ireland and United Kingdom	STER MITE WALLE	N/A	
nuter vivi	After the indent for pluggable equipment type A, the following is added:  - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	olitek walitek walitek olitek walitek wa	LIFEK WILIFEK WI	



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TCICICIOC	110 11 11 240002 104721	1 age 37 01 73	· A		1
The WALL		IEC 62368-1			
Clause	Requirement + Test	LE MILL MILL ON	Result - Remark	alt All	Verdict

211.	The state of the s	Will the Mr. Mr. Mr.
5.6.4.2.1	France	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	NUTE WALL WALL WALL WALL WALL
	the circuit supplied from the mains is taken as 20 A instead of 16 A.	TER MUTTER MUTTER MUTTER AN CITE OF
5.6.5.1	To the second paragraph the following is added:	N/A
MUTIER	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	while while while while
5.6.8	Norway	N/A
ne white	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.	et united united united un
5.7.6	Denmark	N/A
	To the end of the subclause the following is added:	MULT MILL MILL MILL MILL MILL
	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.	untille until until until until
5.7.6.2	Denmark	N/A
	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.	JUNITE WHITE WHITEK WHI
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.	STEET WHITE WHITE WHITE WAS TEED WAS
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	MILIER MILIER MILIER MILIER
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	THE WILLER WILLER WILLER WAS EX ON
WILLEY.	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a	WHILE WHILE WHILE WHILE



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IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
Cally C	and the the the	ALTER MATERIALITY	ne m		
unitek uni	connection to protective earthing – 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)"	NLIER WHITER WHITER WHITE	TER MITTER		
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	Whitek whitek whitek w	NLTER WALTER		
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	et witet write	THE THE		
	"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."	untific whitek whitek w	JUNITE TUNITE  LITER WHITER		
MUTER A	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."	White white white	MILEY WILLEY		
8.5.4.2.3	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	LEK WHITEK WHITEK WHITE	MULTER AND		



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in winer	me me me	IEC 62368-1	lifek mijek unijekanij	MULL MULL
Clause	Requirement + Test	MULL MY M	Result - Remark	Verdict
Me	24, 24, 24,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Et WITE WITE WALL	are an

B.3.1 and	Ireland and United Kingdom	N/A
B.4	The following is applicable:	ALIER WALTER WALTER WALTER WALTER
	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	TER WHITER WHITER WHITER WHI
	as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	MUTER MUTER MUTE MUTE MUTE
G.4.2	Denmark	N/A
	To the end of the subclause the following is added:	the set set set
	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.	STEET WITH WHITE MILES
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	MITER WHITEK WHITEK WHITEK
	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.	White white white white white white
	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.	Ex writer writer arriter are
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	TEX LIEX SLIEX WALLE
	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	THE MUTER WITER WHITER
	Justification:	It sites with anith and our
	Heavy Current Regulations, Section 6c	24, 24, 25



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TOTOTOTO	110 W 11 24B002104121	1 age 00 01 70	<u> </u>	
ALL WILL		IEC 62368-1		
Clause	Requirement + Test	MULL MU M	Result - Remark	Verdict

G.4.2	United Kingdom	N/A
	To the end of the subclause the following is added:	THE MILL MALL
TEK WATE	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.	THE WALTER ON THE WALTER
<b>3.7.1</b>	United Kingdom	N/A
	To the first paragraph the following is added:	a at at
	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.	TEK TEK TIEK
	NOTE "Standard plug" is defined in SI 1768:1994	Vice Mur and
	and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	TEK MUTEK MATER M
G.7.1	Ireland	N/A
	To the first paragraph the following is added:	Mur. Mur Mur
MALTER OF	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	united whited white it is the same of the
G.7.2	Ireland and United Kingdom	N/A
	To the first paragraph the following is added:	TEN STE
MALTER	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.	witek whitek whitek
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A



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Kelefelice	NO W1F24D092134721	rage of 0173		
Mary aller		IEC 62368-1		
Clause	Requirement + Test	Write My M	Result - Remark	Verdi

10.5.2	Germany	No CRT within the equipment.	N/A
	The following requirement applies:	ALTER MITER WALTER WALLE	Mr.
	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.	TEK WALTER WALTER WALTER WA	itek wa Wali
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	Whitek whitek whitek whitek	MITEK MITEK
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	EX MILIER MALTER MALTER MALTE	TEX WAI

ZD	IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)	N/A
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NATE WALL		IEC 62368-1			MULL
Clause	Requirement + Test	MUTIL MU M	Result - Remark	LEK LE	Verdict

Type of flexible cord	Code de	signations	N
	IEC	CENELEC	
PVC insulated cords		7	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
Rubber insulated cords			
Braided cord	60245 IEC 51	H03RT-F	
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
Cords having high flexibility	50	-	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H	
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
Cords insulated and sheathed with halogen- free thermoplastic compounds			
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	



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TCICICIOC IV	0 VV 11 Z+D03Z 10+1Z 1	1 agc 00 01 70		10 10
IL MULL		IEC 62368-1		TIL MULL
Clause	Requirement + Test	The Marie Will May	Result - Remark	Verdict

5.2	TABLE: Classification	on of electrical er	nergy sourc	es		t det	P
Supply Voltage	Location (e.g.	Test conditions	Parameters				
	circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
5.0VDC	The EUT is	Normal	<60Vdc	# - #	SS	DC	ES1
	designed to be supplied by Micro	Abnormal	MILL WILL	1 120	1 - m	7,	70,
	USB or type-C port (For Charging case)	Single fault – SC/OC	LIEK WILLE	White wh	TEK UT WALI	WITE V	INLIE INLIE
4.2VDC	DC The EUT is designed to be supplied by	Normal	<60Vdc	mrir - mr.	SS	DC	ES1
		Abnormal		Jet - Jet	J. J. C. S.	NITER-MIT	e ar
In the bound of th	Internal Li-ion battery (For Charging case)	Single fault – SC/OC	whi <sup>r</sup> w	EK WILEK	riek mu	SEX MALTEX	MALTE
4.2VDC	The EUT is	Normal	<60Vdc	- 10th 1	SS	DC	ES1
	designed to be supplied by	Abnormal	ar and	Mr. Mr.	711		
	Internal Li-ion battery (For Headphones)	Single fault – SC/OC	y ster		un <del>u</del> re.	nn <sup>ite</sup> nni tek att	الا كان

#### 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 and no load.

SC: Short-circuited; OC: Open-circuited

mments								
LIET WALTE W								
Supplementary information:								
3								



Reference	NO VV 1 F 2 4 D U 9 2 1 3 4 7 2 1	Page 64 01 75	al al		10 10
it. MULL		IEC 62368-1			
Clause	Requirement + Test	Muria Mura	Result - Remark	at a	Verdict

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics							
Method		: ISO 306 / B50	in any -				
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)				
- 1 1 1	TEX TEX STEEL WHITE	MULL MUT MU	74, 75,				
Supplementary information:							

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics									
Allowed imp	pression diam	eter (mm)	:	≤ 2 m	mult will w	PLAT Y	_		
Object/Part No./Material Manufacturer/trademark		Thickness (mm)				ression eter (mm)			
94 JEST	CLIEB WILL	- with with my vi	, 2 <u>, </u>		st 18 18	- کان.	et aller		
Supplementary information:									
JET S	The outer	are are are		٠.(	- LET TEXT	C.C.	ZITE.		

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq 1) (kHz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)	
Basic/supplementary:								
n.	,		7.7	STEP S	7 Et M	CER STILL	Mr. Car	
Reinforce:								
		_4-	<u> </u>	<sup>ران</sup> را <sup>ن</sup>		1000	12 - 13	
	Up	U <sub>p</sub> U <sub>rms</sub> (V)	U <sub>p</sub> U <sub>rms</sub> Freq <sup>1)</sup> (V) (kHz)	U <sub>p</sub> U <sub>rms</sub> Freq <sup>1)</sup> Required cl (mm)	U <sub>p</sub> U <sub>rms</sub> Freq <sup>1)</sup> Required cl (W) (V) (KHz) cl (mm) (mm)	U <sub>p</sub> U <sub>rms</sub> Freq <sup>1)</sup> Required cl (KHz) cl (mm) (mm) (V)	U <sub>p</sub> U <sub>rms</sub> Freq <sup>1)</sup> Required cl (KHz) cl (mm) (mm) (V) required cr (mm)	

# Supplementary information:

- 1) Only for frequency above 30 kHz
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)
- 3) Material Group: Illa/IIIb;
- 4) Bl: basic insulation; Sl: supplementary insulation; Dl: double insulation; Rl: reinforced insulation.

5.4.4.2	TABLE: Minimu	n distance through insu	lation	et set e	et l	N/A
Distance the (DTI) at/of	nrough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Mea	sured DTI (mm)
- 4	* **	EX SLIFE NIFE UN	it will will	Mr Mr.	211	- Jan
Supplemer	ntary information:					



Reference is	10 W 1F24D092154721	Page 65 01 75	1 1 1		10
. The	41, 45, 4	IEC 62368-1	ite mile ancie	wr. au	Apr.
Clause	Requirement + Test		Result - Remark		Verdict

5.4.4.9	TABLE: Solid in	nsulation at	frequencies >:	30 kHz			N/A
Insulation	material	E <sub>P</sub>	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
THE RELIEF	UNLIER WALTE	nri -nr.	211, 7	- z+	Att A	EX TEX	NITER NI
Suppleme	ntary information:						

		400		
5.4.9	TABLE: Electric strength tests			N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Basic/suppl	ementary:	at the s	EK STEK STEE	WITE WALLE
<sub></sub>	TEX TEX STEX SLITER MATE	Anti Che Mu	24 - 20 C	- Jr
Reinforced:	My Au Au	TEX STEX NOTE	WILL WILL M	rie wire a
(E) CP			- A	et cret s
Supplemen	tary information:			
FER OLIER			THE LIER	CLIER WIFE

5.5.2.2	TABLE:	Stored discharge o	n capacitors			N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
764 JU	K OLIEK	WHITE WHITE WA	- 1/1 1/1		Alt- Alt	. 17 <sup>62</sup> . ~1
Suppleme	ntary inforn	nation:				
X-capacito	rs installed	for testing:	20, 2	at est	LET JET	TIEK WITE
[] bleedii	ng resistor i	rating:				
[] ICX:						
1) Normal	operating c	ondition (e.g., normal	operation, or open fus	se), SC= short o	circuit, OC= ope	en circuit

5.6.6	TABLE: Resistance of	f protective condu	ctors and termination	ons W	N/A
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
L OLIER	UNLIE WALTE WALT	12 50 2	* # #	TEX- JEX	RLIER - RLIER
Supplemer	ntary information:				



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The Muri		IEC 62368-1		
Clause	Requirement + Test	in Mill My M	Result - Remark	Verdict

5.7.4	TABLE	E: Unearthed acces	ssible parts			apr.	N/A
Location		Operating and	Supply	F	ES		
		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)	class
- <sup>«</sup>	, t	At The S	EX STEX W	The Maria M	n m.		/
Supplemen	tary info	rmation:					

5.7.5	TABLE: Earthed access	ible conductive p	art 🎳						N/A
Supply vo	oltage (V)	at at a	iek "Lis	y <b>-</b>	NITE'S	JA LT	W.C	. on	_
Phase(s)		[] Single Phase; [] Three Phase: [] Delta [] Wye							
Power Distribution System:		[]TN []TT []IT					2/1		
Location		Fault Condition No in IEC 60990 clause 6.2.2		Touch current (mA)			Comment		
TIEK MY	TE NO TOUR S	24, 2	_4	- C+		$\mathbb{Z}$	CENT OF	JE#	NITER OF
Suppleme	entary Information:								
er antir	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		x		70	7	F (1)	100	in an

5.8	TABLE:	Backfeed sa	afeguard in battery	backed up s	upplies		N/A	
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
 	+ Let	. US#U	EX MITE AND	mr - m	20,- 20	£ - x	- 10 <sup>EE</sup> - 4	
Supplemen	Supplementary information:							
A LEK TEK STEK WITE MILLE MINT MIN MIN WE SEK TEK							LEF CE	

6.2.2 T	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		
For Charging	case	WALL MALL	Mr. Mr.	20, 2,	4 1	13+ A		
Battery Outputo -	t + Normal operation	2.74	2.9	7.9	3s	PS1		
Battery Outpu	ıt + Single fault	0	(c) 0, (c)	JE ONLE	3s 3s	PS1		



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11010101100	11011 1711 2 12 002 10 11 2 1	1 490 01 0110	<u> </u>	
The William		IEC 62368-1		
Clause	Requirement + Test	MUTIL MU M	Result - Remark	Verdict

to -	(U2 Pin 1-8 SC)	ie mit w	6 21 2		A 10	- 18
For Headphones	10 10		et citet ci	TER MITE	white white	Aur 1
Battery Output + to -	Normal operation	3.99	0.05	0.2	3s	PS1
Battery Output + to -	Single fault (U1 Pin 3-8 SC)	0	TEK TEK	0	3s	PS1

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	nination of Arcing PIS	PIS THE PIST OF TH				
Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No		
- 1/2 1/2 2/2	or the the	TER MATER MALT	mur mur.	21/2 - TIL		

#### Supplementary information:

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

6.2.3.2 TABLE: Determ							
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No				
m	CEL SUFE WIFE WIFE	Murr Mur nu n					

#### Supplementary information:

All primary and secondary circuit 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.

All conductors and devices are considered as PIS.

8.5.5	TABLE: High pro	essure lamp	Murit Mur. M.	. 201. 201		N/A
Lamp man	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	be	ticle found yond 1 m 'es / No
2	in the state of	- ITEK WITER	The warrant	MrM.	2	



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1 1010101100	110 1711 2 12 002 10 17 2 1	- 1 age 00 01 1 0	<u> </u>		
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Clause	Requirement + Test	Min My M	Result - Remark	Alt All	Verdict

1000				- II			<u> </u>	.62	- 117	- 637			
Suppl	ementa	ary inform	ation:										
me	m	24	10.	24	,et	Tet-	CLIER	MLIE	MILL	MALL	Mer	n.	-61

9.6	TABLE	E: Temper	ature meas	surements	s for wirele	ess power	transmitte	ers	N/A
Supply voltag	ge (V)			:	70		et et	SEX.	
Max. transmi	it powe	r of transm	itter (W)	: E.E.E.	Mrtie M	TIE ANTE	The.	2012 1	_
					eiver and contact				eiver and at ce of 5 mm
Foreign obj	jects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
ITER WALTER	WILL.	Mr. A	10 - 10	7 - 7	734	10 <del>1-</del>	TEX - TIEN	ON THE REAL PROPERTY.	INCTE - WAY
Supplementa	ary infor	mation:							
whi wh	<u> </u>	10. 10.	- "		et .	TEX SE	F SUITE	الان الماليان	re wer

5.4.1.4, TABLE: Temperature measurements 9.3, B.1.5, B.2.6										
Supply voltage (V):	5Vdc (1)	4.2Vdc (2)		- 15th	_					
Ambient temperature during test $T_{amb}$ (°C):	See below				_					
Maximum measured temperature <i>T</i> of part/at:		Т (	°C)		Allowed T <sub>max</sub> (°C)					
PCB near U2 and K1 and D1 (Headphones)	31.1	36.8	2400 - 240	7,	105					
Battery body (Headphones)	31.0	35.8	JE14- JJ	et neter	Ref.					
Enclosure inside near Battery (Headphones)	31.1	33.6	10		60					
Enclosure outside near Battery (Headphones)	29.6	32.0	TER WILTE	Mr. M.	43					
PCB near U2 (Charging case)	39.9	28.3	K WEEK N	Will - Will	105					
Battery body (Charging case)	31.9	28.6	7.	11 - 18t	Ref.					
Enclosure inside near Battery (Charging case)	31.3	28.3	unii - wi	F 'EX	60					
Enclosure outside near Battery (Charging case)	30.6	28.1	STILL MULT	MUT. M	43					
Ambient	25.0	25.0	er Milier	eneri - me	200					



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TOICIOI OIL	J WII 24D032134721	100	age 09 of 75			10 10
The WALL			IEC 62368-1			
Clause	Requirement + Test	الل المالية	Fr. Mr. Car	Result - Remark	et de	Verdict

Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
Tet tet liter suit	t in the	aniii an	7 - m	7,	) 	et - et	All S

#### Supplementary information:

- 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): Empty battery of earbuds together withempty battery of charging base werecharged by USB type-C.
- (2): Normal operation, fully charged batteryof earbuds operated under max.volume.

B.2.5	, J	ABLE: Inp	out test					PINE WALLE WALLE
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
Chargir	ng case	Charging,	, charging c	ase empty	, Headpho	nes empt	y	in the set set
5.0	WALL TEX	0.220	W - W	it united	Whitek Writek	INTER A	nite <sup>t</sup> w	For Charging case. Empty battery of earbuds together with empty battery of charging base were charged by USB type-C.
MALTE		EX MULTER	MITER		TEK WALT		WALTER V	Charging case Battery Charging Current: 0.198A, Headphones Battery Charging Current: 0.022A
5.0	NITEK V	0.026	ine - wa liek walie	* MULTER	WALTER V	nliet w	eter- eter-wa	For Headphones. Empty battery of earbuds were charged by fully charged battery of charging base.
¥ wni ∵iE		TEK WILTE L WITEK	A WHITEK		ER MUTE		MILIEX	Charging case Battery Discharging Current: 0.089A, Headphones Battery Charging Current: 0.022A
Earpho	ne exte	rnal disch	arge	ek aire	DITE	WILLEY V	N. C.	ur mr. m. m.
4.2	nn Tek LTEK N	0.020	ne -waited	Whitek of	JEK MU	EK WALTE	TEX VIOLE	Normal operation, fully charged battery of earbuds operated under max. volume. Headphones Battery Discharging Current: 0.020A

<sup>\*</sup> Temperature limit for TS1 of accessible enclosure according to Table 38.



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TCCCCCCC NO WIT 24D032 TC	74721 1 age 70	0170	<u> </u>	
The Auto Auto Augo A	IEC 62368	3-1 The State of t		
Clause Requirement + To	est with white	Result - Remark	d d	Verdict

- ex lex lex liter outle outly was any and

B.3, B.4	ABLE: Abnor	mal operatin	g and fau	lt condit	ion te	ests	P	
Ambient tempe	rature T <sub>amb</sub> (°0	C)			کنی	See be	elow w — —	-
Power source for	or EUT: Manu	ıfacturer, mod	el/type, οι	ıtputratin	g:	- 10	t tet tet at -	-
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	1 -	use rent (A)	Observation	
For Charging ca	ase	* 16*	JEK JA	ie, mi	,,	w	Mr. Mr. M. M.	
U2 Pin 1-8	IN S-CONTENT OF THE STATE OF TH	5Vdc	10mins	Whitek	ounite TEX	irii uu	Unit shutdown immediately, recoverable. no hazard. Ambient: 25.0 °C. Charging case Battery Charging Current: 0A, Headphones Battery Charging Current: 0A	ng
For Headphone	es	TEK STEK	WILLER AN	10 21	· .	21/2	THE THE AT A	ţ.
U1 Pin 3-8	W S-C W	4.2Vdc	10mins	ek nut suter	- 1/2 - 1/2	NUTER V	Unit shutdown immediately, recoverable. no hazard. Ambient: 25.0 °C. Headphones Battery Discharging Current: 0A	, lu
Speaker	S-C	4.2Vdc	10mins	unitek uni	ALTE LEY	White White	Speaker stop working. No damage, no hazard. Ambien 25.0 °C. Headphones Battery Discharging Current: 0A	ıt:
Speaker	max. available output power	4.2Vdc	10mins	WALTER	en Tun	EK WIT	Normal operation, fully charge battery of earbuds operated under max. volume. Temperature rise see table 5.4.1.4, 9.3, B.1.5, B.2.6.	ged

#### Supplementary information:

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

- 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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The While		IEC 62368-1			
Clause	Requirement + Test	Will My An	Result - Remark	at de	Verdict

ls it possible t	o install the	battery in a rev	- 2		osition?		- 10	-		_	
<i>XV</i> - <i>X</i> *	V` .N	112 - 11	<u> </u>		C	hargi	ing	.4 <u>L</u>	<u> 175 - 176 -</u>		
Equipment Specification			Vo	Itage (V)					Current (A)		
		et e	L	5	The WALL	٠,	Ur.	21/2	Ju 1 Ju	n 1 m	
					Battery	spec	cificati	on	· · · · · · · · · · · · · · · · · · ·		
		Non-recharge	eable	batteries			Rech	nargeab	le batteries		
		Discharging		ntentional	(	Char	ging		Discharging	Reverse	
Manufacturer/type		current (A)		harging rrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)	
FL502	FL502030		*	ال سنائش	4.2		30.	0.3	0.3	A - N	
FL400909		2112 - 211			4.2	٠	0.0	0375	0.0375	No. Marie	
Note: The tes	ts of M.3.2 ar	e applicable or	nly w	hen above	appropri	ate d	ata is	not ava	ilable.		
Specified batt	ery tempera	ture (°C)				٧:,,	E. 11	NUT .	50		
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp.		rrent (A)	Voltag (V)	e Obse	rvation	
For charging	base (FL502	030):	2	192					t let	TEX ST	
U2 Pin 1-8	SC	Chargemod	de	7hour	TEX UNIT		0	4.2	NL, NS	, NE, NF	
U2 Pin 1-8	SC	Discharge mo	ode	7hour	£ - d		0,00	4.2	NL, NS	, NE, NF	
For earbuds (	FL400909):	TEK STEK	in.	IE WALL	Me	all	Y .	21/2	7/2 /2	- z+	
U1 Pin 3-8	√SC √	Charge mod	de	7hour	N. Carlo	.5	0	4.2	NL, NS	, NE, NF	
U1 Pin 3-8	SC	Discharge mo	ode	7hour	21/2_ <	611	0	4.2	NI NS	, NE, NF	

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: Charging safeguards for equipment containing a secondary lithium	ALD.
A+	battery	



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Reference	NO VV 1 F 2 4 D U 9 2 1 3 4 7 2 1	Page 72 01 75			
The White		IEC 62368-1			
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Maximum specified	charging voltag	e (V)		: 4.2	L St. St.	_
Maximum specified	charging curren	(FL502030):		_		
Highest specified ch	arging tempera	-	LIEY WLIEY WAL			
Lowest specified cha	arging temperat	ure (°C)	West Aug	.: 0	1 A B	
Battery	, , ,				Observation	
manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
FL502030	Normal condition	4.2	0	50	Stop charging	9
FL502030	(U2 Pin 1-8 SC)	4.2	0	50	Stop charging	Jun's
FL502030	Normal condition	4.2	0	0	Stop charging	JALIE JALIE
FL502030	(U2 Pin 1-8 SC)	4.2	0	0	Stop charging	
FL400909	Normal condition	4.2	0	50	Stop charging	
FL400909	(U1 Pin 3-8 SC)	4.2	W 0 W	50	Stop charging	
FL400909	Normal condition	4.2	0 0	0	Stop charging	
FL400909	(U1 Pin 3-8 SC)	4.2	0	O O	Stop charging	

## 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	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub>	(A)	S (\	VA)
Circuit	Condition	O <sub>00</sub> (V)	11116 (3)	Meas.	Limit	Meas.	Limit
- J.	at at all	INLIE NOLI	NACT.	21 <sub>15</sub> 21 <sub>15</sub>	$\sigma_{l_{L}}$	7, - 7,	t
 Supplemer	ntary Information:	"WILL "MUI		m m.	- 22	_	-



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I CEICICIICE IN	0 VV 11 24D092134721	rage 13 01 13		A CONTRO
Le MULL		IEC 62368-1		MULL MULL
Clause	Requirement + Test	MUTI MU AN	Result - Remark	Verdict

SC = short circuit, OC = open circuit

\* Unit shutdown immediately. No damage, No hazard.

T.2, T.3, T.4, T.5	TABLE: St	teady force tes	TEX JUST						N/A
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)		Obs	ervation	
- L - C	- 76+	JEF - JEF	CLTEK.	MALIE	ane - ane	"In-	24	- 40.	74
Supplementai	ry informatio	on:							

T.6, T.9 T	ABLE: Impa	ct test	VILLE MUL	The The	, , , , , , , , , , , , , , , , , , ,	N/A		
Location/Part	Material	Thickness (mm)	Height (mm)		Observation			
MULT WILL	21/2,- 21/1	7 7	. Zet	TEK NITEK	White while whi	i. Mrr. 1		
Supplementary information:								
5 m	W A V	/ A V	LIFE W	The same of	Mr. Mr.	24. 24.		

T.7 T.	ABLE: Drop	test		N/A			
Location/Part	Material	Thickness (mm)	Height (mm)	Observation			
-LIEK OLIEK	MILE MAI	is mile m	<u> </u>	The left the state states with			
Supplementary information:							
THE MITTER	Wry Will	21/2 211		et let let liet with mite mil			

T.8 T.	ABLE: Stress	s relief test			THE STEEL MITTER SPITE SPITE
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation
NETER WALTER	Mill - Wil	21/2 - 2n	7.		- itek altek -nitek unite un
Supplementary	/ information:				
The White M	er m	201. ×	at di	t Tet	LIER ALTER MILE WALL WALL



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11010101100	Hell Will Elbook to Hill	1 490 1 1 01 10		
The William		IEC 62368-1		
Clause	Requirement + Test	Write My M	Result - Remark	Verdict

TABLE: Alternative method for determining minimum clearances distances							
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
in men	11. 11.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ITER WITE WALTER WA	y and -and a			
Supplementary	y information:						
See Table 5.4	.2, 5.4.3	et tet tet mil	WHITE WALL WALL	Mr. M. M.			



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Will Murry		IEC 62368-1		Write Murit Muri
Clause	Requirement + Test	MULL MIN ON	Result - Remark	Verdict

4.1.2	TABLE: Critical compo	onents informati	on W	* #	P.
Object / part N	No. Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
Enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AG15E1-H	ABS, HB, 60°C, measures 1.5 mm minimum thick.	UL 94	UL E162823
PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	GDM-R1, ILM- R1	V-0, 130 °C	UL796	UL E330731
(Alternative)	Interchangeable	Interchangeab le	V-0, 130°C	UL 796	UL WALLEY WAL
Speaker for headset	Interchangeable	Interchangeab le	3mw, $16\Omega \pm 15\%$ , 2 Pcs	IEC 62368-1, EN IEC 62368-1	Test with appliance
Internal Li-ion battery (for charging base	Fenglong	FL502030	3.7V, 200mAh, 0.74Wh	IEC 62133-2: 2017, IEC 62133-2: 2017/AMD1:202	Test Report No.: ECT2022031 1003
Internal Li-ion battery (for earbuds)	Panghe County Fenglong Electronic Technology Co., LTD	FL400909	3.7V, 25mAh, 0.0925Wh	IEC 62133-2: 2017, IEC 62133-2: 2017/AMD1:202	Test Report No.: LA2023B086 0001

## Supplementary information:

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



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# **Photo Documentation**



Figure 1 Overall view



Figure 2 Overall view



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# **Photo Documentation**



Figure 3 Internal view

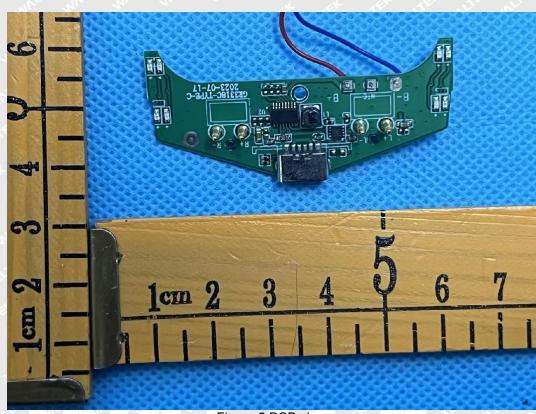


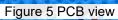
Figure 4 Internal view



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# **Photo Documentation**





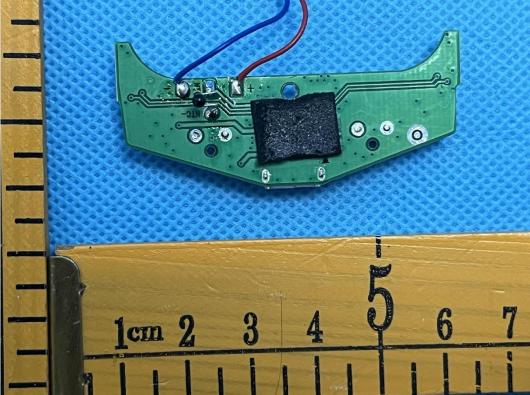


Figure 6 PCB view



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# **Photo Documentation**

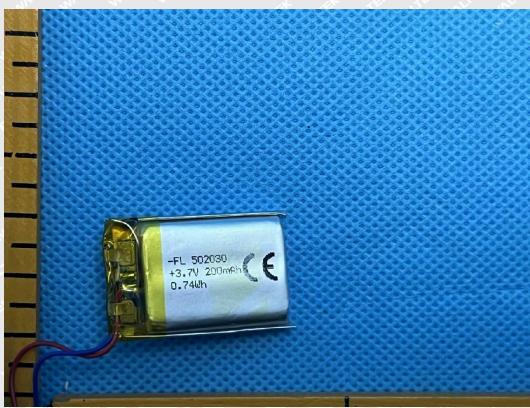


Figure 7 Battery view



Figure 8 Overall view



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# **Photo Documentation**

Reference No.: WTF24D09215472Y



Figure 9 Overall view

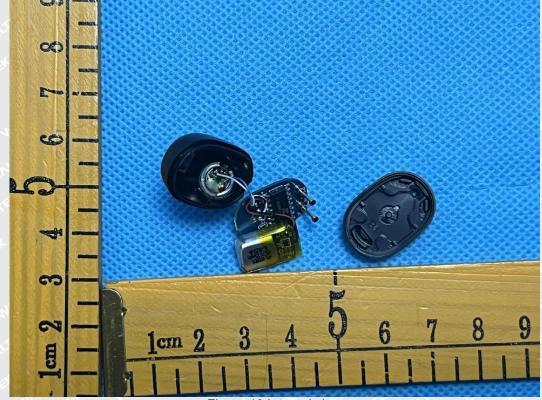


Figure 10 Internal view

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

Waltek Testing Group Co., Ltd. http://www.waltek.com.cn