



TEST REPORT

Reference No.....: WTF25D06150612Y

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

Address..... : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Manufacturer..... : 106613

Address.....: N/A

Product.....: Rechargeable wireless mouse

Model(s)..... : MO2222

Total pages: 67 pages and 6 pages of photo.

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample..... : 2025-06-16

Date of Test.....: 2025-06-16 to 2025-07-14

Date of Issue...... 2025-07-17

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 description Rechargeable	e wireless mouse
Trademark MOB	
Model and/or type reference MO2222	
Rating(s) Input DC 5V	1A with with with any one
Remark:	
Whether parts of tests for the product have been sub	contracted to other labs:
☐ Yes ⊠ No	
If Yes, list the related test items and lab information:	
Test items:	
Lab information:	
Summary of testing:	Mr. Mr. M. M. A.
Tests performed (name of test and test clause):	Testing location:
- EN IEC 62368-1: 2020+A11: 2020	No. 77, Houjie Section, Guantai Road, Houjie Town,
The submitted samples were found to comply with	Dongguan City, Guangdong, China
the requirements of above specification.	with with wait wal was in the
who has the set let let	s (List of countries addressed):
EU Group Differences	ELE VILLER WHITE WHITE WHITE WHITEK WHITEK WHITEK
EU Group Differences The product fulfils the requirements of EN IEC 62 Use of uncertainty of measurement for decisions No decision rule is specified by the IEC standa applicable limit according to the specification in the	368-1:2020+A11:2020.
EU Group Differences The product fulfils the requirements of EN IEC 62 Use of uncertainty of measurement for decisions No decision rule is specified by the IEC standa applicable limit according to the specification in th without applying the measurement uncertainty ("sir "accuracy method").	on conformity (decision rule): rd, when comparing the measurement result with the at standard. The decisions on conformity are made

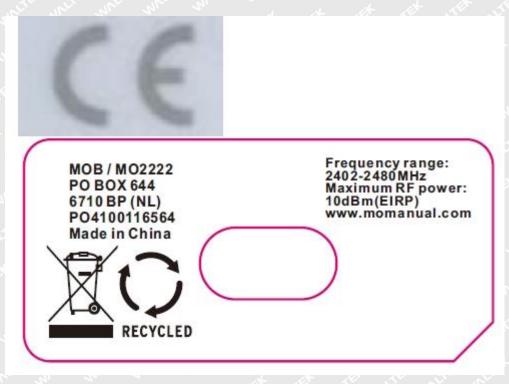
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted

the testing.









Remark:

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



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TEST ITEM PARTICULARS:	With any and any and the
Product group	
Classification of use by:	☑ Ordinary person☐ Instructed person☐ Skilled person
Supply Connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3
Supply % Tolerance	☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	□ ; Location: □ building □ equipment □ N/A
Equipment mobility:	 ☐ movable ☐ hand-held ☐ transportable ☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other:
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⊠ other: not Mains connected
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Access location	N/A ☐ restricted access area☐ outdoor location ☐
Pollution degree (PD):	□PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40°C Outdoor: minimum°C
IP protection class:	☑ IPX0 □ IP
Power Systems:	☐ TN ☐ TT ☐ ITV L-L ☐ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg)	☑ 0.061kg



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POSSIBLE TEST CASE VERDICTS:	With the the the the
- test case does not apply to the test object	.: N/A At 10t 11th NITE MITE WALL
- test object does meet the requirement	.: P (Pass)
- test object does not meet the requirement	: F (Fail)
TESTING:	The the table
Date of receipt of test item	: See cover page.
Date (s) of performance of tests	.: See cover page.
GENERAL REMARKS:	LIER BLIEF MLIE WALL WALL WALL WALL WALL
"(see Enclosure #)" refers to additional information a "(see appended table)" refers to a table appended to Throughout this report a ☐ comma / ☒ point is GENERAL PRODUCT INFORMATION:	the report.
Product Description 1. The equipment with model MO2222 is Recharged 2. It is powered by USB-C port conformed to LPS of 3. The maximum operating temperature is 40°C.	
Model Differences N/A	unit with our our our state street street
Additional application considerations – (Considerations) N/A	lerations used to test a component or sub-



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



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ENERGY SOURCE DIAGRAM

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

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

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

MATERIE



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AV 3				
IEC 62368-1				
Clause	Requirement – Test	All the All the	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	JIP 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	MALTE MALTE
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	AL P
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	No such constructions and components.	N/A
4.1.8	Liquids and liquid filled components (LFC)	No such parts.	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	N/A
4.4.3.1	General	2 24 24	N/A
4.4.3.2	Steady force tests	All The Little of	N/A
4.4.3.3	Drop tests	in my my	N/A
4.4.3.4	Impact tests	set the still with any	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
in and	Glass impact test (1J)	LIFET MITER MITE WALLE	N/A
et let	Push/pull test (10 N)	The state of the s	N/A
4.4.3.8	Thermoplastic material tests	LIER WILL MULL MULL ME	N/A
4.4.3.9	Air comprising a safeguard	a state	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	E WALL MALL MALL MALL	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	CLIEF WILL WILL A	P.J
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	JUNIT
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P



N/A

N/A

N/A

N/A N/A

Ρ

N/A

N/A

N/A

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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
aller	THE THE T	the write write our will	· 201
"WILLER	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors	See below	N/A
LITE WAY	Fix conductors not to defeat a safeguard	TEX LIEK OLIEK WITE	N/A
A 10	Compliance is checked by test	the say in the	N/A
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard	Not direct plug-in equipment.	N/A
4.7.3	Torque (Nm)	ALTER MITE WALTE WAS	N/A
4.8	Equipment containing coin/button cell batteries	The state of the s	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard	ITER STEEL STEEL SOUTH	N/A
4.8.3	Battery compartment door/cover construction	- 24 24 X	N/A
WILL	Open torque test	EX NITEX WITE WHITE W	N/A
4.8.4.2	Stress relief test	711 7	N/A
4.8.4.3	Battery replacement test	WILL WILL MULL MULL	N/A
4.8.4.4	Drop test		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	MULL MULL MULL MILL AND	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	P
5.2.2.3	Capacitance limits	No such capacitors	N/A
5.2.2.4	Single pulse limits	No such single pulses	N/A
5.2.2.5	Limits for repetitive pulses	No such repetitive pulses	N/A
5.2.2.6	Ringing signals	No such ringing signals	N/A
5.2.2.7	Audio signals	Mr. Mr. Mr.	N/A
5.3	Protection against electrical energy source	STEET THE STEET STATE SINCE	Р

Likelihood of fire or shock due to entry of conductive object

4.8.4.5

4.8.4.6

4.8.5

4.9

4.10

4.10.1

4.10.2

Impact test

Crush test

Compliance

30N force test with test probe

20N force test with test hook

Component requirements

Disconnect Device

Switches and relays



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
ans !	m m Jet Jet J	ET WITE WILL AVE AN	~ 4h.
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	THE THE TIPE OUT	P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	mr mr m m	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	WILL MUTEL MUTEL WHILE	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	IN THE PUT
WELL W	Accessibility to outdoor equipment bare parts	t life with with wh	N/A
5.3.2.2	Contact requirements	7/1 2/2	N/A
are an	Test with test probe from Annex V	aliek while while while	_
5.3.2.2 a)	Air gap – electric strength test potential (V)	an an at the	N/A
5.3.2.2 b)	Air gap – distance (mm)	LIET MILL WALL WALL	N/A
5.3.2.3	Compliance	the state of	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	at at all a	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic	A TEX ITE	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4)	P
5.4.1.5	Pollution degrees	ITE WALTE WALL WALL	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	* SLIET WILL MUTER AND	N/A
5.4.1.5.3	Thermal cycling test	70 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions	ALTER MALTE WALTE WALT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	and the state of the	N/A
5.4.1.8	Determination of working voltage	NITE WITE WALL WALL	N/A
5.4.1.9	Insulating surfaces	a state set	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	the many many many many many many many many	N/A
5.4.1.10.2	Vicat test	ALTER WITE WALTER WAL	N/A
5.4.1.10.3	Ball pressure test	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.2	Clearances	WITE WALL MALL MALL	N/A
5.4.2.1	General requirements	a state of	N/A
t Cit	Clearances in circuits connected to AC Mains, Alternative method	LIE WHITE WHITE WHITE	N/A
5.4.2.2	Procedure 1 for determining clearance	et outer antier antier ou	N/A
, at-	Temporary overvoltage	70° 50° 51° 51° 51° 51° 51° 51° 51° 51° 51° 51	é <u> </u>
5.4.2.3	Procedure 2 for determining clearance	ITE STATE WITE ON	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Oladoo,	A Codemonium Cost	Treedit Tremaint	100000
5.4.2.3.2.2	a.c. mains transient voltage	711 721	
5.4.2.3.2.3	d.c. mains transient voltage	SLIEF WITE WALLE	muri —
5.4.2.3.2.4	External circuit transient voltage	My S. S.	<u></u>
5.4.2.3.2.5	Transient voltage determined by measurement	WILL WILL MALL A	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	TEX SLIER MITER WAS	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	t ifet sitet site	N/A
5.4.2.6	Clearance measurement	2/12 24 24	N/A
5.4.3	Creepage distances	LIER NIER WITE	N/A
5.4.3.1	General	711. 211. 21.	N/A
5.4.3.3	Material group	LIER CLIER WIFE WI	n –
5.4.3.4	Creepage distances measurement	, , , , , , , , , , , , , , , , , , ,	N/A
5.4.4	Solid insulation	EL WILL WALLE WALL	N/A
5.4.4.1	General requirements	* * * * * * * * * * * * * * * * * * *	N/A
5.4.4.2	Minimum distance through insulation	WILL MULL MULL	N/A
5.4.4.3	Insulating compound forming solid insulation	A SET	N/A
5.4.4.4	Solid insulation in semiconductor devices	The sunt of	N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	re mer me me	N/A
5.4.4.6.1	General requirements	the reference	N/A
5.4.4.6.2	Separable thin sheet material	Mr. Mr. M.	N/A
antifer and	Number of layers (pcs)	THE LIFE STEE	N/A
5.4.4.6.3	Non-separable thin sheet material	me me m	N/A
THE WILL	Number of layers (pcs)	TER LITER OUTER	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	of let let i	N/A
5.4.4.6.5	Mandrel test	ne me m	N/A
5.4.4.7	Solid insulation in wound components	- Tet Jet Jel	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	The The Tex	N/A
TEX TEX	Alternative by electric strength test, tested voltage (V), K _R	mer mer mer	N/A
5.4.5	Antenna terminal insulation	LIE MALL WALL WA	N/A
5.4.5.1	General	a at at a	+ N/A
5.4.5.2	Voltage surge test	WALL WALL WALL	N/A
5.4.5.3	Insulation resistance (MΩ)	4 4 4	N/A



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200	IEC 62368-1	er auer ince in	20 0
Clause	Requirement – Test	Result – Remark	Verdict
The .		E. Will Mull Mar.	NA COL
- 12 5	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	MUTTE MUTT MUTT AND	N/A
5.4.7	Tests for semiconductor components and for cemented joints	NITEK WALTER WALTER WALT	N/A
5.4.8	Humidity conditioning	at let test itest	N/A
- 'Ek	Relative humidity (%), temperature (°C), duration (h)	is must me my	70 -
5.4.9	Electric strength test	A STEE WITE WITE A	N/A
5.4.9.1	Test procedure for type test of solid insulation	4	N/A
5.4.9.2	Test procedure for routine test	NITER WITE WITE WITE	N/A
5.4.10	Safeguards against transient voltages from external circuits	THE WIFE WIFE WITE	N/A
5.4.10.1	Parts and circuits separated from external circuits	, , , , , , , , , , , , , , , , , , ,	N/A
5.4.10.2	Test methods	EX WILL MULL MULT	N/A
5.4.10.2.1	General	a at alt	N/A
5.4.10.2.2	Impulse test	WILL MULL MILL M	N/A
5.4.10.2.3	Steady-state test	The state of	N/A
5.4.10.3	Verification for insulation breakdown for impulse test	a far an	N/A
5.4.11	Separation between external circuits and earth	ITES WITH WALL WALL	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	t liet slight might	N/A
5.4.11.2	Requirements	The American	N/A
mer me	SPDs bridge separation between external circuit and earth	MILLER WALLER WALLER WA	N/A
Life Mali	Rated operating voltage U _{op} (V)	TEX SEX SUPER SULF	_
4 4	Nominal voltage U _{peak} (V)	in my my	_
MALLE	Max increase due to variation ΔU _{sp}	EK LITER OLITER MITTER	
at the	Max increase due to ageing ΔU _{sa}	21/2 21/2 22/2	_
5.4.11.3	Test method and compliance	OLIE WILLER WALTER	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements	MITE WALL WALL THE	N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid	LIE MILL WHILL WHILL	N/A
5.4.12.4	Container for insulating liquid	at at at at	N/A
5.5	Components as safeguards	MALL MALL MALL	N/A
5.5.1	General	No such components as safeguards.	N/A



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	IEC 62368-1	Vr. Chr. Mr. M.	200
Clause	Requirement – Test	Result – Remark	Verdict
F F O	Conscitors and DC units	The water of the	NI/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement	MULL MULL MULL	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	The The Night of	N/A
5.5.3	Transformers	16 24 25 2	N/A
5.5.4	Optocouplers	TER STER WITER WALL	N/A
5.5.5	Relays	711 211 2	N/A
5.5.6	Resistors	ALTER WITER WHITE	N/A
5.5.7	SPDs	Zu, Z Z+	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	MILIER WALLE MALL V	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	STEE WALTER WAITER WA	N/A
A CLIEN	RCD rated residual operating current (mA)	at all the off	<u> </u>
5.6	Protective conductor	Must mer min	N/A
5.6.2	Requirement for protective conductors	t cet cet cres	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	LET STEEL	N/A
5.6.3	Requirement for protective earthing conductors		N/A
ice with	Protective earthing conductor size (mm²)	The tip of the sail	~
t mitex	Protective earthing conductor serving as a reinforced safeguard	* Tet Tet Tel	N/A
TEK.	Protective earthing conductor serving as a double safeguard	THE THE THE	N/A
5.6.4	Requirements for protective bonding conductors	Write Mrs. Mrs.	N/A
5.6.4.1	Protective bonding conductors	at at let	N/A
211	Protective bonding conductor size (mm²)	VEL MUE AND AND	_
5.6.4.2	Protective current rating (A)	et let let let li	N/A
5.6.5	Terminals for protective conductors	Mr. Mr. My	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	Juniter maries maries	N/A
INLTER JUN	Terminal size for connecting protective bonding conductors (mm)	NUTER WILLER WALTER	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system	LIE MALIE WALLE WAS	N/A
5.6.6.1	Requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.6.6.2	Test Method	White Music Maria	N/A
5.6.6.3	Resistance (Ω) or voltage drop	3	N/A



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.6.7	Reliable connection of a protective earthing conductor	the rest rest rest	N/A
5.6.8	Functional earthing	my my my	N/A
Lie Wil	Conductor size (mm²)	TER STER STER STER	N/A
A 2	Class II with functional earthing marking	W. My My My	N/A
WILL	Appliance inlet cl &cr (mm)	CER STEE STEE WITER S	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	A STEE WILL MILE MA	N/A
5.7.2.1	Measurement of touch current	70 70 70	N/A
5.7.2.2	Measurement of voltage	CLIEB WILL WILL WILL	N/A
5.7.3	Equipment set-up, supply connections and earth connections	The lifet street writest	N/A
5.7.4	Unearthed accessible parts	2 14 20	N/A
5.7.5	Earthed accessible conductive parts	EX SITEX WITE WITE W	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	THE SHE SLICK BUT	N/A
	Protective conductor current (mA)	Mr. An An	N/A
VILLE WA	Instructional Safeguard	THE NITE MITE	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	The lift	N/A
5.7.7.1	Touch current from coaxial cables	r. Mr. Mr. M.	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	A MALTER WALTER WALTER WA	N/A
5.7.8	Summation of touch currents from external circuits	SLIER WILER WILLER	N/A
LIEK MIL	a) Equipment connected to earthed external circuits, current (mA)	Tet stet stret stret	N/A
EK OLIEN	b) Equipment connected to unearthed external circuits, current (mA)	at all the tit	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
INLIE	Mains terminal ES	No battery used	N/A
200	Air gap (mm)	24 24 24 24 24	N/A

6	ELECTRICALLY- CAUSED FIRE Classification of PS and PIS		Р
6.2			JE P J
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits. (See appended table 6.2.2)	P VINLTEK



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-20,	IEC 62368-1	alte with wall was	71, 74.
Clause	Requirement – Test	Result – Remark	Verdict
6.2.3	Classification of potential ignition sources	See the following details.	Р
6.2.3.1	Arcing PIS	No Arcing PIS exist in the equipment	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	P
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	P MILITER
10, 10	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	THE P
6.4.1	Safeguard method	Control fire spread	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	EX WILEY MUTER MUTER ON	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Lifet stifet states state	N/A
6.4.3.1	Supplementary safeguards	ALL ALL AND AL	N/A
6.4.3.2	Single Fault Conditions	Lett Mile While	N/A
et et	Special conditions for temperature limited by fuse	The second	N/A
6.4.4	Control of fire spread in PS1 circuits	LIE MITE WALL WALL V	N/A
6.4.5	Control of fire spread in PS2 circuits	Compliance detailed as follows: - Printed board: min. V-1 - (See appended tables 4.1.2 and Annex G for detail)	EK PIE
6.4.5.2	Supplementary safeguards	an an an	Р
6.4.6	Control of fire spread in PS3 circuits	LIER NITER WHITE WHITE	N/A
6.4.7	Separation of combustible materials from a PIS	The state of the s	N/A
6.4.7.2	Separation by distance	THE RUTER WALTER WALTER	N/A
6.4.7.3	Separation by a fire barrier	No fire barrier used.	N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	at the set set	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	A set set set	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A
6.4.8.3.3	Top openings and properties	No top opening	N/A



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	IEC 62368-1	or the things	× ×
Clause	Requirement – Test	Result – Remark	Verdict
ans.	an an a state of	ET WILL WILL MAN. W	10
	Openings dimensions (mm)		N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
dit s	Openings dimensions (mm)	The state of	N/A
الات الله الات الله	Flammability tests for the bottom of a fire enclosure	ALTER WALTER WALL WALL	N/A
MALITY	Instructional Safeguard	TEX SLIER WITER WITER IN	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
White 4	Openings dimensions (mm)	t alter mite unlik unl	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	and and an area with	N/A
6.4.9	Flammability of insulating liquid	in my my	N/A
6.5	Internal and external wiring		P.
6.5.1	General requirements	The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21.	* P
6.5.2	Requirements for interconnection to building wiring	a fund min	N/A
6.5.3	Internal wiring size (mm2) for socket-outlets	ITE WITH WALL WALL V	N/A
6.6	Safeguards against fire due to the connection to ac	dditional equipment	P
Mr.	Mr. All St. Collection of the St. Collection	ET LIE WITE WATER WATER	711
7	INJURY CAUSED BY HAZARDOUS SUBSTANC	ES	P+
7.2	Reduction of exposure to hazardous substance	es the white white white	N/A
7.3	Ozone exposure	The state of	N/A
7.4	Use of personal safeguards or personal protect	tive equipment (PPE)	N/A
EX JEX	Personal safeguards and instructions	a at at at	_
7.5	Use of instructional safeguards and instruction	S MALL WALL WALL W	N/A
TEK	Instructional safeguard (ISO 7010)	at the contract	_
7.6	Batteries and their protection circuits	CIT WILL WILL WILL	Р

8	MECHANICALLY-CAUSED INJURY	Aug P Aug
8.2	Mechanical energy source classifications	THE STEP STE
8.3	Safeguards against mechanical energy sources Safeguards against parts with sharp edges and corners	
8.4		
8.4.1	Safeguards	Р
WALTER.	Instructional Safeguard MS1: Edges and corne enclosure	ers of P



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-2),	IEC 62368-1	Still Will Mar And All A	n. 14.
Clause	Requirement – Test	Result – Remark	Verdict
21/2 1	W VI THE ST	ET WITE WITE WALL WE	" The
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	t Pert
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	No moving parts.	N/A
WALTER	MS2 or MS3 part required to be accessible for the function of the equipment	See above.	N/A
· Kit	Moving MS3 parts only accessible to skilled person	and the state of	N/A
8.5.2	Instructional safeguard	TOTAL WALL WALL WALL	N/A
8.5.4	Special categories of equipment containing moving parts	SLIER SLIER MILIER MALIE	N/A
8.5.4.1	General	in in the state of	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	LIET WILL WHILE WALL	N/A
8.5.4.2.1	Protection of persons in the work cell	s at at at	N/A
8.5.4.2.2	Access protection override	anti mi mi m	N/A
8.5.4.2.2.1	Override system	at the the st	N/A
8.5.4.2.2.2	Visual indicator	were mer me me	N/A
8.5.4.2.3	Emergency stop system	It I I I I I I I I I I I I I I I I I I	N/A
LEK LIEK	Maximum stopping distance from the point of activation (m)	To the let	N/A
+ 46+	Space between end point and nearest fixed mechanical part (mm):	ar mer and and a	N/A
8.5.4.2.4	Endurance requirements	MITE WALL WALL WAS	N/A
unifek uni	Mechanical system subjected to 100 000 cycles of operation	LIEF STEE WILES MILE	N/A
at de	- Mechanical function check and visual inspection	an in the life	N/A
in mer	- Cable assembly:	LIEF MITE WALL WALL	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	EX LIEX SLIEK SUIEX	N/A
8.5.4.3.1	Equipment safeguards	M. M. M.	N/A
8.5.4.3.2	Instructional safeguards against moving parts	- ALTER MITE MALTE MAL	N/A
8.5.4.3.3	Disconnection from the supply	The the state of	N/A
8.5.4.3.4	Cut type and test force (N):	WITE WALL MALL WALL	N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
k SLITER	Explosion test:	at the text	N/A
8.5.5.3	Glass particles dimensions (mm):	MULL MULL MILL MILL	N/A
8.6	Stability of equipment	at at the st	N/A



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-20.	IEC 62368-1	KIJ, MILL MILL MILL	20. 1.
Clause	Requirement – Test	Result – Remark	Verdict
8.6.1	General	MS1: Mass of the unit	N/A
all Life and	Instructional safeguard:	We i. Wass of the arm	N/A
8.6.2	Static stability	24 11 11 10 10 10 10 10 10 10 10 10 10 10	N/A
8.6.2.2	Static stability test:	THE STILL MITTER WITE	N/A
8.6.2.3	Downward force test	12 11 21 2	N/A
8.6.3	Relocation stability	THE RESERVE STREET	N/A
0.0.0	Wheels diameter (mm):	in the lite	IN/A
Mr.	Tilt test	A LIEB WITE WITE A	N/A
8.6.4	Glass slide test		N/A
11 10		With with with any	-72, .
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other stru	C. 10, 11, 10,	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods	the man were	N/A
- 16th	Test 1, additional downwards force (N)	the set of the	N/A
	Test 2, number of attachment points and test force (N)	MULL AND MI	N/A
Will My	Test 3 Nominal diameter (mm) and applied torque (Nm)	THE WALL	N/A
8.8	Handles strength	All I'm Life Life	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	* STEP STEP OSTER	N/A
, t	Number of handles	the the town	_
WELLE M	Force applied (N)	LITER OLITER WALTER WAY	in min
8.9	Wheels or casters attachment requirements	741 741 741	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	a de de	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions	- LIEK OLIEK ONLIEK OM	N/A
8.10.3	Cart, stand or carrier loading test	M. M. A.	N/A
iver an	Loading force applied (N)	ALTER DELFE MALTE MALT	N/A
8.10.4	Cart, stand or carrier impact test	in and	N/A
8.10.5	Mechanical stability	LIET WITE WALLE WALLE	N/A
y Jet	Force applied (N):		TEK -J
8.10.6	Thermoplastic temperature stability	MULL MULL MULL A	N/A
8.11	Mounting means for slide-rail mounted equipme	ent (SRME)	N/A



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	IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict		
"Alex	The same of the sa	iter with white white	The all		
8.11.1	General	No such parts	N/A		
8.11.2	Requirements for slide rails	EX SLIER WITE WHITE	N/A		
at .	Instructional Safeguard	: 0, 1	N/A		
8.11.3	Mechanical strength test	RLIE WILL WALL O	N/A		
8.11.3.1	Downward force test, force (N) applied		N/A		
8.11.3.2	Lateral push force test	NITE WALL WALL ON	N/A		
8.11.3.3	Integrity of slide rail end stops	L St. St. St.	N/A		
8.11.4	Compliance	It will me me	N/A		
8.12	Telescoping or rod antennas	t et et set	N/A		
in 12,	Button/ball diameter (mm)	: No such parts	z ₁₁ _		

9	THERMAL BURN INJURY Thermal energy source classifications Touch temperature limits		Р
9.2			P.M
9.3			Р
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance	See B.1.6 & B.2.3	P
9.4	Safeguards against thermal energy sources	The men men	u _{ll} b a
9.5	Requirements for safeguards		of P
9.5.1	Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions.	P ph ph ph ph
9.5.2	Instructional safeguard	Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	LIER ALTER MITE WALTER	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	IEL NITER WITE WALLE WE	N/A
9.6.3	Test method and compliance:		N/A

10	RADIATION		P
10.2	Radiation energy source classification		me P m
10.2.1	General classification	See below	P A
in Mr.	Lasers	LIER WILL WALL WALL V	_
* WALTER	Lamps and lamp systems	RS1: LED only for indicating use which is considered as low power application.	_
CLIER	Image projectors	LEK TEK TEK STE	_



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201.	IEC 62368-1	MILE WALL MALL WALL	211. 21.
Clause	Requirement – Test	Result – Remark	Verdict
- she	V.D.	E WILL MULL AND M	20
THE S	X-Ray		_
1112 21	Personal music player:	While mer were more	_
10.3	Safeguards against laser radiation	the set of	N/A
 	The standard(s) equipment containing laser(s) comply	No laser radiation	N/A
10.4	Safeguards against optical radiation from lamp (including LED types)	s and lamp systems	P
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	PI
Writer on	Instructional safeguard provided for accessible radiation level needs to exceed	NUTER WHITE WHITE	N/A
A A	Risk group marking and location:	The state of the s	N/A
r. Aug.	Information for safe operation and installation	LIFE WILL WILL MAN	N/A
10.4.2	Requirements for enclosures	1 1 1 1	N/A
Me	UV radiation exposure:	WHITE WHIT WHI	N/A
10.4.3	Instructional safeguard	at at at s	N/A
10.5	Safeguards against X-radiation	MULL MULL MULL MILL	N/A
10.5.1	Requirements	No X-radiation	N/A
10,	Instructional safeguard for skilled persons	2 24 24	_
10.5.3	Maximum radiation (pA/kg)	The Life Hear	_
10.6	Safeguards against acoustic energy sources	is the the	N/A
10.6.1	General	* TEN LITER WITER ON	N/A
10.6.2	Classification	1/12 1/12 20 20	N/A
White M	Acoustic output L _{Aeq,T} , dB(A):	CIER STER WITE WITE	N/A
t	Unweighted RMS output voltage (mV):	20 24 2 X	N/A
The Mary	Digital output signal (dBFS)	LIER NITER WITER WALTER	N/A
10.6.3	Requirements for dose-based systems	The state of the s	N/A
10.6.3.1	General requirements	IER WILL AVILLE MULLE AN	N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	nutice white white whi	N/A
All C	30 s integrated exposure level (MEL30)	at at at All	N/A
15. 24	Warning for MEL ≥ 100 dB(A):	WHILE MULL AND AND	N/A
10.6.4	Measurement methods	A SH SET TEN	N/A
10.6.5	Protection of persons	ing min min min	N/A
LIET	Instructional safeguards:	at at all all	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	Muri My My M	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
10.6.6.1	Corded listening devices with analogue input	EL MULLE AVILLANT	N/A	
White M	Listening device input voltage (mV)	ALTER ONLIER MALTER	N/A	
10.6.6.2	Corded listening devices with digital input	201 21 24	N/A	
VEL AVE	Max. acoustic output L _{Aeq,T} , dB(A)	WILL WILL MALL A	N/A	
10.6.6.3	Cordless listening devices	a state	N/A	
Me	Max. acoustic output L _{Aeq,T} , dB(A)	ite will main my	N/A	

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.1	General	TEX LIEX SLIER MATE	P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	TEL LIER NITER MITE	P
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	TEK P
TEX	Audio Amplifiers and equipment with audio amplifiers	The tilt is	N/A
B.2.3	Supply voltage and tolerances	Rated input 5Vdc	Р
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	2 24 24	Р
B.3.1	General	(See appended table B.3)	THE P
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
NITE	Instructional safeguard	A TEX STEX STEEL OF	N/A
B.3.3	DC mains polarity test	Not supplied by D.C. mains	N/A
B.3.4	Setting of voltage selector	No such selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	N/A
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3)	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective	Р
B.4	Simulated single fault conditions	t the the cities and	Р
B.4.1	General	211 211 211	Р
B.4.2	Temperature controlling device	LIER NIER WILL MILE	N/A
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	P.
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р



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-20.	IEC 62368-1	ari an an	20 11.
Clause	Requirement – Test	Result – Remark	Verdict
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	W. P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	MILLE P.
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV r	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	anti uni	N/A
C.2.1	Test apparatus:	The state of the state of	N/A
C.2.2	Mounting of test samples	The Mulis and Man	N/A
C.2.3	Carbon-arc light-exposure test	the text of the state of	N/A
C.2.4	Xenon-arc light-exposure test	Mur. Mur. Mr. Mr.	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	me me me	N/A
D.2	Antenna interface test generator	TEK TEK NIFEK MITER	N/A
D.3	Electronic pulse generator	he my my	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audi		N/A
White 1	Maximum non-clipped output power (W):	THE MITTER MITTER	
Alt.	Rated load impedance (Ω):	The state of	6 -
ne in	Open-circuit output voltage (V)	Write Write Mary Mary	_
16th 15th	Instructional safeguard:	a st st set	_
E.2	Audio amplifier normal operating conditions	ALTE MALL WALL WALL	N/A
THE CLIEB	Audio signal source type:	at at let the	<u> </u>
20,	Audio output power (W):	MULL ME ME M	_
JEK	Audio output voltage (V):	at at at a	€



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mes		EL WILL MILL ONL MY	70	
Let.	Rated load impedance (Ω)			
14, 21,	Requirements for temperature measurement	WILL MULL MULL MULL	N/A	
E.3	Audio amplifier abnormal operating conditions	1 to the	N/A	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P	
F.1	General	TEX SLIER WITER WALLE	P	
	Language:	English	_	
F.2	Letter symbols and graphical symbols	it outer while while whi	√P.	
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.	MITE P	
F.3	Equipment markings	and any any and	Р	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	VIII P	
F.3.2	Equipment identification markings	See below for details.	Р	
F.3.2.1	Manufacturer identification:	See copy of marking plate	P.	
F.3.2.2	Model identification	See copy of marking plate	L P	
F.3.3	Equipment rating markings	See below for details.	Р	
F.3.3.1	Equipment with direct connection to mains	Supplying by 5Vdc	N/A	
F.3.3.2	Equipment without direct connection to mains	ALTER MITE WALLE WALL	JIP P	
F.3.3.3	Nature of the supply voltage:	Sill the state of	N/A	
F.3.3.4	Rated voltage:	See copy of marking plate	No. ba	
F.3.3.5	Rated frequency		N/A	
F.3.3.6	Rated current or rated power:	See copy of marking plate	Р	
F.3.3.7	Equipment with multiple supply connections	Single supply connection.	N/A	
F.3.4	Voltage setting device	No voltage setting device.	N/A	
F.3.5	Terminals and operating devices	at at let set	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	mer mer mer me	N/A	
F.3.5.2	Switch position identification marking	LIER WILL MULL MULL	N/A	
F.3.5.3	Replacement fuse identification and rating markings	et siret milet milet and	N/A	
A.	Instructional safeguards for neutral fuse	701 20 AF -0	N/A	
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A	



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Ol-	IEC 62368-1	David D	\/\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Clause	Requirement – Test	Result – Remark	Verdict
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	ALTER MITE WALL WALL	N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment	he me in a	N/A
F.3.6.1.1	Protective earthing conductor terminal	TEX SLIEX WITH WHITE W	N/A
F.3.6.1.2	Protective bonding conductor terminals	<i>y</i> , <i>z</i> , , ,	N/A
F.3.6.2	Equipment class marking:	t refer wife while wi	N/A
F.3.6.3	Functional earthing terminal marking:	The state of	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	"IL"
F.3.8	External power supply output marking:	TER STEE STEE MITE	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	JEK P
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. After each test, the marking remained legible.	A PE
F.4	Instructions	The Mr. M. M.	Р
Tie. Auti.	a) Information prior to installation and initial use	See user manual	Р
EK TEK	b) Equipment for use in locations where children not likely to be present	t it lit lit	N/A
20,	c) Instructions for installation and interconnection	wer were my	N/A
White W	d) Equipment intended for use only in restricted access area	- TUEL MUTEL MUTEL MUT	N/A
at .	e) Equipment intended to be fastened in place	The second second	N/A
ing any	f) Instructions for audio equipment terminals	WILL MULL MULL MULL	N/A
TEX JE	g) Protective earthing used as a safeguard	L A A A	N/A
4 ZIX	h) Protective conductor current exceeding ES2 limits	The Murray Murray	N/A
Will.	i) Graphic symbols used on equipment	ex niter with white white wh	N/A
LITEK O	j) Permanently connected equipment not provided with all-pole mains switch	at at the tot	N/A



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	IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
- Mar		IE WILL MUE WELL	7/12 7/10	
	k) Replaceable components or modules providing safeguard function	at at at	N/A	
212-01	Equipment containing insulating liquid	The Mer And	N/A	
JEX N	m) Installation instructions for outdoor equipment	at at at	N/A	
F.5	Instructional safeguards	White Antis was an	P	
G	COMPONENTS		P	
G.1	Switches	. M. 20	N/A	
G.1.1	General	No switch used	N/A	
G.1.2	Ratings, endurance, spacing, maximum load	Ange Ange on	N/A	
G.1.3	Test method and compliance	THE STEEL WITH	N/A	
G.2	Relays	11/2 11/2 15/2	A N/A	
G.2.1	Requirements	No relay used.	N/A	
G.2.2	Overload test		N/A	
G.2.3	Relay controlling connectors supplying power to other equipment	IN MILE WALLE WALL	N/A	
G.2.4	Test method and compliance	LIEF NITE WILLEN	N/A	
G.3	Protective devices		N/A	
G.3.1	Thermal cut-offs	No such component	N/A	
IEK WALTE	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	The Time Still Still	N/A	
E NITEK	Thermal cut-outs tested as part of the equipment as indicated in c)	the test test trest	N/A	
G.3.1.2	Test method and compliance	They were well	N/A	
G.3.2	Thermal links	No such component	N/A	
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	and any and	N/A	
24	b) Thermal links tested as part of the equipment	VII. MUT. MUT. M.	N/A	
G.3.2.2	Test method and compliance	et let let let	N/A	
G.3.3	PTC thermistors	No such component	N/A	
G.3.4	Overcurrent protection devices	No such component	N/A	
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	The the top	N/A	
G.3.5.1	Non-resettable devices suitably rated and marking provided	Muli muli muli m	N/A	
G.3.5.2	Single faults conditions	LIE WALTE WALTE WAL	N/A	
G.4	Connectors	a at at at	N/A	
G.4.1	Spacings	No such component	N/A	
G.4.2	Mains connector configuration:	a de de	N/A	



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Clause	IEC 62368-1	Decult Demands	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	the text text	N/A
G.5	Wound components	Mus Me Me	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	ing my	N/A
G.5.2	Endurance test	TEK STEK STEK JAT	N/A
G.5.2.1	General test requirements	- 20 20 X	N/A
G.5.2.2	Heat run test	LIE WITE WALLE	N/A
et.	Test time (days per cycle)	7/1 2/1	- H
inc. an	Test temperature (°C):	WILL WILL MALLE	V
G.5.2.3	Wound components supplied from the mains	at at at	N/A
G.5.2.4	No insulation breakdown	WITE MALTE WALL WAS	N/A
G.5.3	Transformers	at at at all	N/A
G.5.3.1	Compliance method	The wife with	N/A
all Electric	Position	et det det	N/A
40 40	Method of protection	MULL MULL MILE	N/A
G.5.3.2	Insulation	It ITE	N/A
4 4	Protection from displacement of windings:	2 4 20 20	_
G.5.3.3	Transformer overload tests	the its life all	N/A
G.5.3.3.1	Test conditions	Mr. Mr. Mr.	N/A
G.5.3.3.2	Winding temperatures	LIER STEE WITE	N/A
G.5.3.3.3	Winding temperatures - alternative test method	14, 14, 14,	N/A
G.5.3.4	Transformers using FIW	TITEL BUTER MATERIA	N/A
G.5.3.4.1	General	20 20	N/A
ir mr	FIW wire nominal diameter:	ALTER MITE WALTE WA	_
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	THE WALLE WALLE WALL	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	White white white	N/A
G.5.3.4.5	Thermal cycling test and compliance	TEX LIEX SITES	N/A
G.5.3.4.6	Partial discharge test	m m m	N/A
G.5.3.4.7	Routine test	TEX STEX STEE WIT	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	SEX SLIFE WITH SOLITE	N/A
G.5.4.2	Motor overload test conditions	40 40 40	N/A
G.5.4.3	Running overload test	THE LIFE MITTER	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.4.2	Locked-rotor overload test	THE THE THE	N/A
White M	Test duration (days):	STEP ALTER MATER	until _
G.5.4.5	Running overload test for DC motors	The thinks	N/A
G.5.4.5.2	Tested in the unit	alter miter unlier	N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors	TEX INLICE WALTER WALL	N/A
G.5.4.6.2	Tested in the unit	L A A	N/A
11/2 1	Maximum Temperature	UNLIE WALTE WALTE	N/A
G.5.4.6.3	Alternative method	A St Set	N/A
G.5.4.7	Motors with capacitors	White Mri Mri A	N/A
G.5.4.8	Three-phase motors	et let let	N/A
G.5.4.9	Series motors	or mer mer my	N/A
MITE	Operating voltage:	et let let let	
G.6	Wire Insulation	Any Any Any	N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	Mr. Mr. 211	N/A
G.7	Mains supply cords	LEE THE ME	N/A
G.7.1	General requirements	No such component	N/A
MULL	Туре:	LIE WITE WILL WALL	'z
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	White white white	N/A
G.7.3.2	Cord strain relief	LIER OLIER MITER	N/A
G.7.3.2.1	Requirements	10 10 10	N/A
The Chine	Strain relief test force (N)	LIEF WIFE WILLENN	N/A
G.7.3.2.2	Strain relief mechanism failure		√ N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	TEK WITE WELL MICE	N/A
G.7.3.2.4	Strain relief and cord anchorage material	L A A	N/A
G.7.4	Cord Entry	WALTE WALL WAL	N/A
G.7.5	Non-detachable cord bend protection	at at at	N/A
G.7.5.1	Requirements	WILL MULL MULL M	N/A
G.7.5.2	Test method and compliance	at all all a	N/A
y Tex	Overall diameter or minor overall dimension, <i>D</i> (mm)	in the man	_
Mr.	Radius of curvature after test (mm)	WALLE WALL MALL	41/2 -
G.7.6	Supply wiring space	1 1 1	N/A



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-20.	IEC 62368-1	all the are all	20. do
Clause	Requirement – Test	Result – Remark	Verdict
2 - 2 1		Experie were me in	7,11
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire	antie min min me	N/A
G.7.6.2.1	Requirements	The second second	N/A
G.7.6.2.2	Test with 8 mm strand	With Auth Mut. Mur.	N/A
G.8	Varistors	A ST ST SET	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	e at at all a	N/A
G.8.2.1	General	MULL MULL MULL MILL	N/A
G.8.2.2	Varistor overload test	et let set set	N/A
G.8.2.3	Temporary overvoltage test	mer mer mer mir	N/A
G.9	Integrated circuit (IC) current limiters	LEK LEK LEK ALTER	N/A
G.9.1	Requirements	No such component	N/A
MITE	IC limiter output current (max. 5A)	EX TEX STEX STEEL IS	_
	Manufacturers' defined drift:	m m m	_
G.9.2	Test Program	TEX LIEX NITER WAY	N/A
G.9.3	Compliance	Mr. And	N/A
G.10	Resistors	Let antie antie	N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	THE SITE WITH WALLE	N/A
G.10.3	Resistor test		o N/A
G.10.4	Voltage surge test	A STEE WILLEY MY	N/A
G.10.5	Impulse test	3 A A A	N/A
G.10.6	Overload test	COLIFE WALL WALL WALL	N/A
G.11	Capacitors and RC units	a at at at	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	a at at all	N/A
G.11.3	Rules for selecting capacitors	The way with the	N/A
G.12	Optocouplers	t at at at a	N/A
TEX.	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
10, 10,	Type test voltage V _{ini,a} :	WILL MULL AND MULL	
TEX JE	Routine test voltage, V _{ini, b}	at the title	
G.13	Printed boards	THE MILE MILE MILE	Р
G.13.1	General requirements	Approved Printed board used	P.
G.13.2	Uncoated printed boards	No. 111 A. 2000	P
G.13.3	Coated printed boards	A 15 15 1	N/A



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-20,	IEC 62368-1	all with which which	20, 2,
Clause	Requirement – Test	Result – Remark	Verdict
an.	M. M. S.	EL WILL WILL MAL	in in
G.13.4	Insulation between conductors on the same inner surface	let lift lifet	N/A-
G.13.5	Insulation between conductors on different surfaces	THE THE THE	N/A
- 711	Distance through insulation	WILL AUT AUT AU	N/A
Et NIER	Number of insulation layers (pcs)	at let let is	<i>*</i>
G.13.6	Tests on coated printed boards	The Mer Aug.	N/A
G.13.6.1	Sample preparation and preliminary inspection	t get get wet	N/A
G.13.6.2	Test method and compliance	The Me Me	N/A
G.14	Coating on components terminals	THE LIES STEE	N/A
G.14.1	Requirements	me me me	N/A
G.15	Pressurized liquid filled components	THE LITER WITER WA	N/A
G.15.1	Requirements	No such component	N/A
G.15.2	Test methods and compliance	EX STER INTER WALLE	N/A
G.15.2.1	Hydrostatic pressure test	20 T X	N/A
G.15.2.2	Creep resistance test	CLIEB MITE WALLE	N/A
G.15.2.3	Tubing and fittings compatibility test	The state of the s	N/A
G.15.2.4	Vibration test	Marin W	N/A
G.15.2.5	Thermal cycling test	+ ,	N/A
G.15.2.6	Force test	The Will Mar Mar	N/A
G.15.3	Compliance	a state of the	N/A
G.16	IC including capacitor discharge function (ICX)	MULL MULL MULL	N/A
G.16.1	Condition for fault tested is not required	No such component	N/A
a, a,	ICX with associated circuitry tested in equipment	Mrs. Mrs. Mrs.	N/A
LIER MIT	ICX tested separately	TEX TEX STEX ON	N/A
G.16.2	Tests	We my my m	N/A
MULLE	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	THE WALLER WALLER WALL	
WALTER	Mains voltage that impulses to be superimposed on	- NITER MITER MILIER	whit —
NITELY WAS	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	THE STEE STEEL	nite# —
G.16.3	Capacitor discharge test	m. m. m.	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General Control of the Control of th	- Ju - J	N/A
H.2	Method A	TEX INCTES MALTE MALTE	N/A
H.3	Method B		N/A



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	at the test the	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):	ER TER STER STER	
H.3.1.4	Single fault current (mA)::	, Mr. Mr. An.	_
H.3.2	Tripping device and monitoring voltage	t jet sjet miet mi	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	and the test state of the	N/A
H.3.2.2	Tripping device	mur mur mur mi	N/A
H.3.2.3	Monitoring voltage (V):	THE THE LITTER SLITER	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	OUT INTERLEAVED	N/A
J.1	General	it will aut me a	N/A
CLITER OF	Winding wire insulation:	the test state of	š —
da .	Solid round winding wire, diameter (mm):	Mr. Mr. Mr. M.	N/A
NLTER WILL	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	MALTER WALTE	N/A
J.2/J.3	Tests and Manufacturing	the state	NITEK_I
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
TEK .	Instructional safeguard	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard med	hanism	N/A
K.3	Inadvertent change of operating mode	at at telt the	N/A
K.4	Interlock safeguard override	AUFTE MUFF ANDE AND	N/A
K.5	Fail-safe	at let let liet	N/A
K.5.1	Under single fault condition	Mr. Mr. M. 2	N/A
K.6	Mechanically operated safety interlocks	A THE THE THE W	N/A
K.6.1	Endurance requirement	Me Me M. M.	N/A
K.6.2	Test method and compliance	TER LIER WIFE WIFE	N/A
K.7	Interlock circuit isolation	Mr. Mr. W.	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	LIET WHITEK WHITEK WHITE	N/A
WHITE	In circuit connected to mains, separation distance for contact gaps (mm):	Et anifet unifet whilet w	N/A
WATTER W	In circuit isolated from mains, separation distance for contact gaps (mm):	LIEK SLIEK MLIEK ML	N/A



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
- dr	THE THE THE THE THE	EL WILL MILL MULL MU	711
MITER	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):	Mr. Mr. Mr. An.	N/A
K.7.3	Endurance test	TEX LIEX NUTER MUTER	N/A
K.7.4	Electric strength test	We all and and	N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements	711 111	N/A
L.2	Permanently connected equipment	* SIER WITE WITE WITE WHI	N/A
L.3	Parts that remain energized	An In It Is	N/A
L.4 🎳	Single-phase equipment	ALTER MILE WALLE	N/A
L.5-	Three-phase equipment	a to the	N/A
L.6	Switches as disconnect devices	LIFE WILL WILL WILL	N/A
L.7	Plugs as disconnect devices	1 1 1 1	N/A
L.8	Multiple power sources	es unit mui m	N/A
JEK.	Instructional safeguard:	at at at a	N/A
M	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements	at 15th 15th	P
M.2	Safety of batteries and their cells	2 Aug Aug	Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	Approved battery pack used	NITE PU
M.3	Protection circuits for batteries provided within the equipment	* TITEL MITEL WAITER WAY	EK P.S
M.3.1	Requirements	7 × × ×	- P
M.3.2	Test method	CLIEB WILL WILL MILL	₹ P
LITEX MALT	Overcharging of a rechargeable battery	(See appended table Annex M)	JALIEP J
EK MLTEK	Excessive discharging	(See appended table Annex M)	TEK P
CLER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A
All A	Reverse charging of a rechargeable battery	Built-in battery used, reverse charging is prevented	N/A
M.3.3	Compliance	No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal	WA P
M.4	Additional safeguards for equipment containing lithium battery	g a portable secondary	Р
M.4.1	General	CH KET TEN JE	Р



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20,	IEC 62368-1	real way and any	a. 12,
Clause	Requirement – Test	Result – Remark	Verdict
M.4.2	Charging safeguards	Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current.	P P V V V V V V V V V V V V V V V V V V
M.4.2.1	Requirements	t at all out of	N/A
M.4.2.2	Compliance:	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0 fire enclosure used	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	where where the text	Р
M.4.4.2	Preparation and procedure for the drop test	LIFE WALL WALL WALL	P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage difference not exceed 5%.	JEK PA
M.4.4.4	Check of the charge/discharge function	Three complete discharge and charge cycles under normal operating conditions.	F P
M.4.4.5	Charge / discharge cycle test	No fire, explosion and any electrolyte leakage	WILL P
M.4.4.6	Compliance	the part	P
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement	No bare conductive terminal used	EK P.
M.5.2	Test method and compliance	The state of	N/A
M.6	Safeguards against short-circuits	THE WALL MALL MALL	Р
M.6.1	External and internal faults	the state of	N/A
M.6.2	Compliance	The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits.	TEK MI
M.7	Risk of explosion from lead acid and NiCd batte	eries : The same of the same o	N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
A 4	Calculated hydrogen generation rate:	The me in the	N/A
M.7.2	Test method and compliance	TEL STEE WITE WITE	N/A
t et	Minimum air flow rate, Q (m³/h)	20, 20, 7	N/A
M.7.3	Ventilation tests	et nifet mile mile	N/A
M.7.3.1	General	The state of	N/A
M.7.3.2	Ventilation test – alternative 1	The NITE ONLY WALL	N/A



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01	IEC 62368-1	Danish Danish	\/\1: -4
Clause	Requirement – Test	Result – Remark	Verdict
	Hydrogen gas concentration (%)	The The The The	N/A
M.7.3.3	Ventilation test – alternative 2	alier mile mile while	N/A
et .	Obtained hydrogen generation rate:	The state of	N/A
M.7.3.4	Ventilation test – alternative 3	RITER WILL WALL WALL	N/A
EH SE	Hydrogen gas concentration (%)	a start	N/A
M.7.4	Marking:	ifer while while while w	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	The state of the s	N/A
M.8.2	Test method	OLITER MILLE MILLE WALL	N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		14, 7,
M.8.2.3	Correction factors	+ at at at	JEH - (
M.8.2.4	Calculation of distance d (mm):	MULL MALL MALL M	40
М.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage	Mur Au Au	N/A
M.9.2	Tray for preventing electrolyte spillage	at The street	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	To the little	N/A
10	Instructional safeguard	the west was a	N/A
N STEEL	ELECTROCHEMICAL POTENTIALS		N/A
4,	Material(s) used:		
0.5	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
S	Value of X (mm):	Mr. Mr. Mr. Mr.	, ,
P WILL	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		P
P.1	General	See below	J. P
P.2	Safeguards against entry or consequences of entry of a foreign object		P
P.2.1	General	20 To 1	P
P.2.2	Safeguards against entry of a foreign object	MITER MITE MALIE WAL	WP.
LEX.	Location and Dimensions (mm)	No opening.	124
P.2.3	Safeguards against the consequences of entry of a foreign object	MULL MULL MULL MULL	N/A
P.2.3.1	Safeguard requirements	THE STIFF WITH SUNTY	N/A
* JALIER	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	et tet tet stet stet	N/A
	Transportable equipment with metalized plastic parts	un un su si	N/A



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01	IEC 62368-1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Clause	Requirement – Test	Result – Remark	Verdict
P.2.3.2	Consequence of entry test:		N/A
P.3	Safeguards against spillage of internal liquids	CITER MITE MITE WILL	N/A
P.3.1	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	WILL WALLE MALL MALL	N/A
P.3.3	Spillage safeguards	and the set	N/A
P.3.4	Compliance	The MALLE MALL MALL OF	N/A
P.4	Metallized coatings and adhesives securing pa	rts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	at let let life	N/A
	Conditioning, T _C (°C):	mer me me me	
LIER WIL	Duration (weeks)	TEX TEX LIER LIFE	MITER O
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		N/A
Q.1	Limited power sources		N/A
Q.1.1	Requirements	14, 14, 25,	N/A
WILL	a) Inherently limited output	LIEF WILL WILL WILL	N/A
*	b) Impedance limited output	Will Am A St.	N/A
ver an	c) Regulating network limited output	- CE MILLE MALLE	N/A
it is	d) Overcurrent protective device limited output		N/A
. Mer	e) IC current limiter complying with G.9	LIER WILL WALL V	N/A
Q.1.2	Test method and compliance	and the state of	N/A
Alve	Current rating of overcurrent protective device (A)	Murita Maria Muri Mu	N/A
Q.2	Test for external circuits – paired conductor cable	WHITE WHITE WHITE WHITE	N/A
LITER ON	Maximum output current (A)	TEN TEN STEP WITER	N/A
4 N	Current limiting method:	in m. m. n.	\.
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General of the state of the sta	No such consideration.	N/A
R.2	Test setup	- street outles on the sound	N/A
	Overcurrent protective device for test:	711 71 12	- L
R.3	Test method	WILL WILL MILL MALLE MALLE	N/A
16th 5	Cord/cable used for test	and the state of	Z#-
R.4	Compliance	LIET WILL WILL WILL .	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	a at at at	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
Wer. 1	Samples, material:	ALTER MALE MALIE MALE	Mir



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-20,	IEC 62368-1	KILL THE WELL THE	. 70, 4,
Clause	Requirement – Test	Result – Remark	Verdict
- in-	NA/-III the colors of the colo	EL WILL MULL MALL	The Mr.
- STEEL	Wall thickness (mm)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Charles
11, 1	Conditioning (°C)	MULL MILL MILL	70, 70,—
LITER WA	Test flame according to IEC 60695-11-5 with conditions as set out	TEX STEK NIFEK	N/A
st si	- Material not consumed completely	1, 1, 1,	N/A
Mur	- Material extinguishes within 30s	TER WILL WILL WA	N/A
- 26%	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire bar	rier integrity	N/A
TEX.	Samples, material:	L A A	10th 50th
in a	Wall thickness (mm)	WHITE WALL WALL	mr m-
CIEN LI	Conditioning (°C)	A A A	JEK JEK
S.3	Flammability test for the bottom of a fire enclosure		N/A
S.3.1	Mounting of samples	at at all s	N/A
S.3.2	Test method and compliance	int in an	N/A
WITE.	Mounting of samples	TEK STEK STEK	- RLTE SIRLE
	Wall thickness (mm):	My An An	7 J. 7
S.4	Flammability classification of materials	At 1 Miles	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	It's write while wh	N/A
t det	Samples, material	s state of	* - 15t - 55
Ch.	Wall thickness (mm)	WHITE WHEN WHI	211.
JEK .	Conditioning (°C)	the state of	JE 150
Ť	MECHANICAL STRENGTH TESTS		N/A
T.1	General White State of the Stat		N/A
T.2	Steady force test, 10 N:		N/A
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:	Mr. Mr. M.	N/A
T.5	Steady force test, 250 N:	- JEH SLIER MITE	N/A
T.6	Enclosure impact test	20 20 20	N/A
West an	Fall test	LIFE MITER MATERIA	N/A
A A	Swing test	in in the	N/A
T.7	Drop test:	LIET INLIE WALLE WA	N/A
T.8	Stress relief test		N/A
T.9	Glass Impact Test:	No such glass	N/A
T.10	Glass fragmentation test		N/A



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AV	**************************************		
$t_n = c_n$		IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

Olddoo	Troquiroment 100t		Toraiot
all.	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas		N/A
TEX S	Torque value (Nm):		N/A
U _L	within the equipment. MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND RECTORION AS AN ACCUSATION OF THE PROPERTY OF THE P		N/A
U.1	PROTECTION AGAINST THE EFFECTS OF IMPLOSION General		N/A
MALTER	Instructional safeguard: No CRT provided within the equipment.		N/A
U.2	Test method and compliance for non-intrinsical	70.	N/A
U.3	Protective screen	The same while same	N/A
ر الا	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General General		N/A
V.1.2	Surfaces and openings tested with jointed test probes	mil with with all	N/A
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire	THE LIEF	N/A
V.2	Accessible part criterion		N/A
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
West of	Clearance:	ALTER MITTER WALTER WALT	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	at the fifth	N/A
Y.3	Resistance to corrosion	THE WALL MULT WITH M	N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	ANTE ME ME THE	N/A
Y.3.2	Test apparatus	WILE MULE MULL MULL	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets	Muss and any an	N/A
Y.4.1	General	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
alle	THE THE STATE OF	Et all mil will	The M	
Y.4.2	Gasket tests	10, 20,	N/A	
Y.4.3	Tensile strength and elongation tests	NITER WITE WITE	N/A	
	Alternative test methods:	20 T T	N/A	
Y.4.4	Compression test	OLIER WILL WALL OF	N/A	
Y.4.5	Oil resistance	a state	N/A	
Y.4.6	Securing means	TE WILL WILL AND	N/A	
Y.5	Protection of equipment within an outdoor enclo	osure	N/A	
Y.5.1	General	WHILL MALL MALL	N/A	
Y.5.2	Protection from moisture	at at the	N/A	
n n	Relevant tests of IEC 60529 or Y.5.3:	MULL MULL MULL	N/A	
Y.5.3	Water spray test	at let let.	N/A	
Y.5.4	Protection from plants and vermin	my nor my m	N/A	
Y.5.5	Protection from excessive dust	et let liet li	N/A	
Y.5.5.1	General	Mr. M. M.	N/A	
Y.5.5.2	IP5X equipment	TEN LITER SOLITER	N/A	
Y.5.5.3	IP6X equipment	1/11 1/11 1/11	N/A	
Y.6	Mechanical strength of enclosures	LEE MITTE	N/A	
Y.6.1	General	7 1	N/A	
Y.6.2	Impact test:	TE LITE WITH AN	N/A	



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L. Mr.	70 20 C.	IEC 62368-1	iter white white whi	in the things
Clause	Requirement – Test	Mur. M. 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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	CENELEC COMMON MODIFICATIONS (EN)	Р
WALTER OF	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	P. P.
reit une	Add the following annexes:	Р
	Annex ZA (normative)Normative references to international publications with their corresponding European publications Annex ZB (normative)Special national conditions	
	Annex ZC (informative)A-deviations	
an.	Annex ZD (informative)IEC and CENELEC code designations for flexible cords	-40,
1	Modification to Clause 3.	N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:	N/A
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.	N/A
3.3.19.3	sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa² s. T	N/A
	$E = \int_{0}^{\infty} p(t)^{2} dt$	



Reference No.: WTF25D06150612Y Page 39 of 67

20,	IEC 62368-1	the wife wife when	20, 20,
Clause	Requirement – Test	Result – Remark	Verdict
3.3.19.4 MILITER MILITERS WILLERS WILLERS	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, E_0 , typically the 1 kHz threshold of hearing in humans. Note 1 to entry: SEL is measured as A-weighted levels in dB. $SEL = 10 \lg \left(\frac{E}{E_0}\right) \text{dB}$	antiek whitek whitek w	N/A
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	MULTER MULTER MULTER	WALL WILEY
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 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.	TEK WILLEK WILLEK WILLEK WILLEK WILLEK WILLEK WILLEK WILLEK WILLEK	N/A
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	I'E WILL WILL WILL	N/A
	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:	antic variet variet var	N/A
	 is designed to allow the user to listen to audio or audiovisual content / material; and uses a listening device, such as headphones or earphones that can be worn in or on or 	LIET NITES MILES	white white



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10,	IEC 62368-1	tr. live. the app.	20, 10,
Clause	Requirement – Test	Result – Remark	Verdict
alle	NOTE 1 Protection against acoustic energy sources from	E. M. C.L. MULL MULL	40, 40,
	telecom applications is referenced to ITU-T P.360.	1 1 1	LET LET
	NOTE 2 It is the intention of the Committee to allow the	SLIER MITE MALTE.	Wer Wer
	alternative methods for now, but to only use the dose	24. 20. 20.	1 1
	measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as	TELL TELL STEELS	LIEN WITE N
	possible.	here were my	2
	Listening devices sold separately shall comply	e of a	et the
	with the requirements of 10.6.6.	the neith until whi	and an
	These requirements are valid for music or video	20, 2	
	mode only.	TEL LITER SLIE	white white
	The requirements do not apply to:	MUT THE THE	2,
	- professional equipment;	at at at	TEX STEE
	NOTE 3Professional equipment is equipment sold through	WILL MULL WALL A	he in
	special sales channels. All products sold through normal electronics stores are considered not to be professional	10. 00	et et
	equipment.	TEX LIER SLIER ON	in an
	It I'M THE THE STEE STEEL STEEL STEEL STEEL STEEL	1115 111, 111,	
	 hearing aid equipment and other devices for assistive listening; 	to the tile of	LITE SUI
	the following type of analogue personal music	with whi with	24.
	players:	1 x	LEK LEK
	long distance radio receiver (for example, a	LIER STIER WITE	WILL MUT.
	multiband radio receiver or world band radio	mr. m. m.	
	receiver, an AM radio receiver), and	at a set	LIET SLIE .
	cassette player/recorder;	20 20 20	1, 1
	NOTE 4 This exemption has been allowed because this		et et .
	technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be	THE RET WITH MILE	40, 40
	extended to other technologies.	24, 25, 2.	- 4
	– a player while connected to an external amplifier	TEX TEX LIE	nlife smith
	that does not allow the user to walk around while	wer wer me	10, 10,
	in use.	+ A A	TEK TEK
	For equipment that is already designed as interested	WITE WILL WALL	The The
	For equipment that is clearly designed or intended primarily for use by children, the limits of the	10 20 2	at at
	relevant toy standards may apply.	TEN TEN TIEN OF	ITE WILL OF
	At at the the mile will will an	in my my	
	The relevant requirements are given in	at at at a	J. J. 12
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	With Aut. Aut.	20, 20,
10.6.1.2	Non-ionizing radiation from radio frequencies	L at at	N/A
11/2° 1	in the range 0 to 300 GHz	TOLIE MILITE MILITE	200 200 W
	The amount of non-ionizing radiation is regulated	20, 20	et et
	by European Council Recommendation	TEX LIEX STEEL	NITE WITH
	1999/519/EC of 12 July 1999 on the limitation of	1 16 My 211 M	
	exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	at at let	TEN TEN
	For intentional radiators, ICNIRP guidelines should	The Maria Mari Mari	2/1, 2/1
	be taken into account for Limiting Exposure to	, L A	+ 1
	Time-Varying Electric, Magnetic, and	E LIER SLIER SLIER	WILL WELL
	Electromagnetic Fields (up to 300 GHz). For hand-	211, 211, 22	
	held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	1 1 1 1	LET CLEAN



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IEC 62368-1					Trip Mari Mirr
	Clause	Requirement – Test	The Albert All All	Result – Remark	Verdict

Classification of devices without the capacity to estimate sound dose	N/A
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 \$L_{Aeq, T}\$, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term \$L_{Aeq, T}\$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, \$T\$ becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term \$L_{Aeq, T}\$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation	N/A N/A N/A N/A N/A N/A N/A N/A
65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB. RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, τ acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	N/A ILLE N/A I
	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 \(L_{\text{Aeq,T}}, \) measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term \(L_{\text{Aeq,T}} \)) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, \(T \) becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term \(L_{\text{Aeq,T}} \) 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. Therefore, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 86 dB. RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the \(L_{\text{Aeq,T}} \) acoustic output shall be \(\leq \) 85 dB where playing the fixed "programme simulation noise connector between the player and its listening device or where the combination of player and listening device when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized conn



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20,	IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
M	WI W THE ST	ET OLITE STATE STATE	me me	
10.6.2.3 ONLIER ONLIER ONLIER ONLIER ONLIER ONLIER ONLIER	RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	JUNITER WALTER W	INTER AND	
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	Whitek whitek whitek	N/A	
10.6.3	Classification of devices (new)	at 18th	N/A	
10.6.3.1	General	Not such equipment	N/A	
F MUTEX	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.	iff while while while	MUNITED WALL	
10.6.3.2	RS1 limits (new)	14 12	N/A	
	RS1 is a class 1 acoustic energy source that does not exceed the following:	MULTER MULTER WALTER	nlie wali	

– 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 $L_{Aeq,T}$ acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN

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"

50332-1.



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
WILLER WEEK WILLER	with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	Whitek wh	JUNE WHITEK	
10.6.4	Requirements for maximum sound exposure	The Mar Mar My	N/A	
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with	WALTER WALTER WALTER	N/A	
40040	EN 50332-1 or EN 50332-2 as applicable.		* N/A	
10.6.4.2	Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	ifte multiply while while	N/A	
	NOTE 1 Volume control is not considered a safeguard .	MILIER WALTER WALTER	MULLY MULL	
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use.	MULIER WHITER WHITER WHITER	INTER WITER	
	The elements of the instructional safeguard shall be as follows:	durites and the and the	WALTER WALTER	
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent	onlies multer multer mu	itek whitek wh	
	wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	ex multer multer multer	MUTTER WITH	
	The state of the s	1 1 1	10	



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IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
" Il	THE THE THE	ALTER MITE MAIL	wer and
nnitek N	of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	antiet untiet untiet o	Miret Mariet
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	EX WALTER WALTER WALTER	Hant Et and antie antiet tiet antiet
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	TEX WALTER WALTER WAL	EK WY TEK WI
	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.	* WHITEK WHITEK WHITEK	White white
WALTER O	A skilled person shall not be unintentionally exposed to RS3.	LIET NITES WIFES	INITER WALTER
10.6.5	Requirements for dose-based systems		N/A
10.6.5.11	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.	Not such equipment	N/A
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	Whitek whitek whitek whi	
10.6.5.2	Dose-based warning and requirements	* LIFE OLIFE ONLIFE	N/A
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an	THE STEEL STEEL	NITEK WALTER



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mr.	acknowledgement. In case the user does not	WILL WILL ME	7115	
	acknowledge, the output level shall automatically	1 1 1	TEX TEX	
	decrease to compliance with class RS1.	ALTER MALTE MALTE VI	Ur. Mr.	
		711. 24.	at let	
	The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of	TEX TEX NITER ON	The Water W	
	hearing damage or loss.	er The Mr. M.		
10.6.5.3	Exposure-based requirements	at let let le	N/A	
	With only dose-based requirements, cause and	MUF, MUF, MU	40	
	effect could be far separated in time, defying the	at at at	JE JE	
	purpose of educating users about safe listening	alite antity with	Mr. Mr.	
	practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-	7/1 /2 /	14 11th	
	term sound level a user can listen at.	TEN TEN STEEL OF	LIE MIN	
	s the fest that start amounts amounts	her the the the		
	The exposure-based limiter (EL) shall	IN LET TEXT S	ER STEEL	
	automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180	The With Myr. Myr.	211 21	
	s, based on methodology defined in EN 50332-3.		- 2 th 3	
	The EL settling time (time from starting level	it lift of the south	THE THE	
	reduction to reaching target output) shall be 10 s	21/2 20 20	4 1	
	or faster.	LET TEX LIER	CLIER WILL	
	Test of EL functionality is conducted according to	Wir The A	11 22	
	EN 50332-3, using the limits from this clause. For	the state of the state of	TEX STEE	
	equipment provided as a package (player with its	The same	7/2 /	
	listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided		+ 15+	
	with a standardized connector, the unweighted	the the other wife	ans an	
	level integrated over 180 s shall be no more than	24. 24. 25.		
	150 mV for an analogue interface and no more	- LEN TEN STEP	NITE OF STATE	
	than -10 dBFS for a digital interface.	MULL WALL WALL	1/1,	
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	et let let	LITEK MITEK	
10.6.6	Requirements for listening devices (headphone	s, earphones, etc.)	N/A	
0.6.6.1	Corded listening devices with analogue input	Not such equipment	N/A	
	With 94 dB LAeq acoustic pressure output of the	in the the this	70	
	listening device, and with the volume and sound	at at at the	- J (**)	
	settings in the listening device (for example, built-	WALL WALL WALL	21/2 211	
	in volume level control, additional sound features like equalization, etc.) set to the combination of	- x		
	positions that maximize the measured acoustic	TEX STEP WITE	AUTY. AUTY.	
	output, the input voltage of the listening device	20, 20, 20,		
	when playing the fixed "programme simulation	LET TEXT TEXT	LIER OLITE	
	noise" as described in EN 50332-1 shall be ≥ 75 mV.	WELL MUST, WHEN MY		
	THE WITE WHILL MY AND AND A	1 1 1 1	Et LEX	
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	TER WITE WALL WAL	111 111	
10.6.6.2	Corded listening devices with digital input	e at at at	N/A	
	With any playing device playing the fixed	White april while	Mr. Mr.	
	"programme simulation noise" described in EN	20, 2	1 1	
	50332-1, and with the volume and sound settings	the state of the s	7.50	



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IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
unitek w	level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq, \tau$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS.	anciet milet milet	JUNETER WAITER	
10.6.6.3	In cordless listening devices In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	MULTER WHITE WHITE	N/A	
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.	White whit with	N/A	
3	Modification to the whole document		Р	



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Light Mary	mr. mr. m. m.	IEC 62368-1	mil mi
Clause	Requirement – Test	Result – Remark	Verdict

AL CAN	st: W					
. E.	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2
- 21	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
_ <	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note
	Table 13					
50	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note
٠,	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4
1,5	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2
è	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note
	Y.4.5	Note				
ی				AT AV		7, 0,
ı	Modification	to Clause 1				
1		ving note: e of certain substa ent is restricted w			Mrtek Mrt	EE WALTER WA
_	Modification	to 1 71				



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4		(d)		
, m		IEC 62368-1		
Clause	Requirement – Test	The Mary App. Ap.	Result – Remark	Verdict

4.Z1	Add the following new subclause after 4.9:	Not directly connected to the	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	a to at at a	WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	No connection to external circuit.	N/A
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
8	Modification to 10.5.1		N/A



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24	IEC 62368-1	the out with any	211, 211,
Clause	Requirement – Test	Result – Remark	Verdict
" The	The The Text of	att neit and	The Me
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions: 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. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm²,	ANTER WHITER WHI	N/A
	at any point 10 cm from the outer surface of the apparatus. 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. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	MUNITER WILLER WILL WILLER WIL	Whitek whitek
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	at at the	- JE - NIF
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.	united while while	N/A
40	Madiffer the Complete was about		

Modification to Bibliography

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

ale.	and the test that the other and our	Call .
et.	Add the following notes for the standards indicated:	P
AUTER WALTER SER WALTER WALTER WALTER WALTER WALTER WALTER	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61558-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	JUNE WHITE WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK WHITEK
11	ADDITION OF ANNEXES	Р
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15 SINGLE SUNGER SUNGLES S	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt." In Sweden: "Apparaten skall anslutas till jordat uttag"	SP N/A SP SP STEET SANTER SP STEET SAN
4.7.3	United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	N/A



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Life Military	Mrs. Aug. Aug. 20.	LIEK INLIEK WALTER WA	in mil m		
Clause	Requirement – Test	ane, and an	Result – Remark	Verdic	t

5.2.2.2	Denmark	No high touch current	N/A
	After the 2nd paragraph add the following:	measured.	MITTE
	at at let let the man	were were any in	200
	A warning (marking safeguard) for high touch	at at all all	JEE .
	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	LIFE WALL WALL WALL	21/2 21/
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex		No such external off cuits.	
G TELL	added:	My My My	E JEK
	For separation of the telecommunication network from earth the following is applicable:	white white whit whi	- TEX
	If this insulation is solid, including insulation	write white water water	Mr. 1
	forming part of a component, it shall at least consist of either	at at at the	TEX
	two layers of thin sheet material, each of which	THE MITE WALL WALL	in in
	shall pass the electric strength test below, or	e at at let	JE# 218
	one layer having a distance through insulation	White will must me	211.
	of at least 0,4 mm, which shall pass the electric	a at at at	the Calif
	strength test below.	STEEL WITE WALL WALL	Miles
	If this insulation forms part of a semiconductor	10 Th	1
	component (e.g. an optocoupler), there is no	ALTER MITE	STATE OF
	distance through insulation requirement for the	- 1 th 12	
	insulation consisting of an insulating compound completely filling the casing, so that clearances		JEE N
	and creepage distances do not exist, if the	it with much much a	16 20.
	component passes the electric strength test in	- A	et 26
	accordance with the compliance clause below and	- ITEM ALTER MITTER AM	in mer.
	in addition	The The In Sec.	
	passes the tests and inspection criteria of 5.4.8	LEK TEK TEK ALTE	BUTE
	with an electric strength test of 1,5 kV multiplied	were were mer my	120
	by 1,6 (the electric strength test of 5.4.9 shall be	a to the letter	TEX
	performed using 1,5 kV),	LIER WILL MALL MALL	21/2 211
	and the supplies t	at the state of	ناويد المنا
	is subject to routine testing for electric strength	White Mure Mure An	20,
	during manufacturing, using a test voltage of	1 1 1 1 1	EX JEX
	1,5 kV.	CLIEB WILL WALL WALL	Alve
	It is permitted to bridge this insulation with a	771 20. 2	. Lit
	capacitor complying with EN 60384-14:2005,	TEX STER STEEL WITE	West of
	subclass Y2.	he me me m	
	A capacitar algorified V2 apparding to EN CO204	at let let like	CITE IN
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under	is with any and	11 20,
	the following conditions:	the state of	18 18
	No All All Care Tele Tele	LIER WILL WILL WI	" WILL
	the insulation requirements are satisfied by	24, 24, 26	عاد اله
	having a capacitor classified Y3 as defined by	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1



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IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
"Ne	an an a tel of	att mer we	The The		
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	THE STEEL STEEL	NITEK WALTER		
	 the additional testing shall be performed on all the test specimens as described in EN 60384- 14; 	united whites whites whi	TEK WITER		
iek _W aliek	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	EX WHITEK WHITEK WHITE	Auri Ex Au		
5.5.2.1	Norway	t let like like	N/A		
	After the 3rd paragraph the following is added:	Mur Mur Mr.	THE THE		
iner in	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	MILLER WHITE WHITE WA	er ler		
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A		
	To the end of the subclause the following is added:	A STIFF WITER SOUTH	MULLER MILE		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	Whitek Muriek Muriek	INLIER WILLER		
5.6.1	Denmark	No such equipment.	N/A		
sek waire kantek watek	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	THE WALTER WALTER	white white		
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	UNLIEK WALTER WALTER W	NITE MALL		
5.6.4.2.1	Ireland and United Kingdom	A A A A	N/A		
	After the indent for pluggable equipment type A , the following is added:	the most mer was	- 16t 1		
	 the protective current rating is taken to be 13 this being the largest rating of fuse used in the mains plug. 	MALIE WALTE WALL	MUT MUT		
5.6.4.2.1	France	TEN LIER SLIE	N/A		
	After the indent for pluggable equipment type A , the following is added: — in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	while while while wh	Tex Mirex		
5.6.5.1	To the second paragraph the following is added:	TE OLIV MILL MAIN	N/A		
MULTER	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	ANTIER MITTER MUTTER	milit mil		



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1101010110011	o.: 1111 20200 100012 1	1 age 20 51 51		
and the same of		IEC 62368-1		
Clause	Requirement – Test	VELL MUE, AM. AM.	Result – Remark	Verdict

211111	Troquilononi Tool	7	1
24	W W THE STATE OF	The war and the	20,
5.6.8	Norway To the end of the subclause the following is	SLIER WHIER WHIER	N/A
NITEX OUT	added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	SUTER WHITER WHITER WHITER	ALTEK WALTE
5.7.6	Denmark -	Mr. M. M.	N/A
WALTER.	To the end of the subclause the following is added:	MULTER MULTER MULTER WILLE	WILTE.
Mrth. M	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	MULTER WHITER WHITE	MUTTE AU
5.7.6.2	Denmark	TEX STEE STEE SINTER SINTER SM	N/A
4	To the end of the subclause the following is	14, 14, 1,	* #
MULTE	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.	MULTER WILLER WILLER WILL	WALL
5.7.7.1	Norway and Sweden	Not such system.	N/A
ntiet uni Tet unite t unitet	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	THE WALLEY	ALTEK MALTER
unit un	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.	unties unties while whiles	Mar Mi
EK WITEK	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:	H WALTER WALTER WALTER WAL	SEX WALTER
initek uni	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create	Milek whilek whilek whilek	onlik uni
WALTER W	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)"	Whitek whitek whitek whitek	Whitek w
	NOTE In Norway, due to regulation for CATV-installations, and	(1) (1) (1)	



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IEC 62368-1						
Clause	Requirement – Test	Result – Remark	Verdict			
1900	M. An A. The Me	الله المال المالي المالي المالي	1/1/2			
unliek vin	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.	OLIER WILER WILER WILE	Y WILLEY			
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	sifest increase whitest	WALTEK W			
	"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."	THE WALTER WALTER WALTER WALTER	E WALTER			
ne white fex white whitex	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."	MITE WHITE WHITEK WHITEK WA	un itek uni Elek unite			
3.5.4.2.3	United Kingdom	No external circuits.	N/A			
	Add the following after the 2 nd dash bullet in 3 rd paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	THE MILITER WHITER	NALTEK W			
3.3.1 and		Not directly connected to the	N/A			
Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met		mains white	SULTER WALTER			
G.4.2	Denmark	Not directly connected to the	N/A			
	To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	mains	MILE WA			
	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	Whitek whitek whitek white	TIS WALTER			



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- "	IEC 62368-1	5 21/2 1/12 2/12 2	27		
Clause	Requirement – Test	Result – Remark	Verdict		
- in-	Mr. Mr. J.	The City Was My	100		
	rules shall be provided with a plug in accordance	20 7	t et		
	with standard sheet DK 2-1a or DK 2-5a.	LEK TEK TEK STER STER	1000		
	If a single-phase equipment having a RATED	mr. mr. mr. m.	200		
	CURRENT exceeding 13 A or if a polyphase	the state of	LEK		
	equipment is provided with a supply cord with a	TER LITER OUT MILE	al Carre		
	plug, this plug shall be in accordance with the	to the the			
	standard sheets DK 6-1a in DS 60884-2-D1 or EN	a the set	15		
	60309-2.	ter with with with wi	10		
	LEX TEX TEX LIFE OUTE WALL WAY	144	A- 0		
	Mains socket outlets intended for providing power	- At 1th 5th N	E WILL		
	to Class II apparatus with a rated current of 2,5 A	They were the the	20,		
	shall be in accordance DS 60884-2-D1:2011	The state of	. 15		
	standard sheet DKA 1-4a.	TEX LIEX SLIP SLIP	They		
	Other current rating socket outlets shall be in	ne me me m			
	compliance with Standard Sheet DKA 1-3a	e of at at	150		
	or DKA 1-1c.	THE OUT WITH MALL	11, 01		
	lik tek tek tek till atil met me	711 72	4		
	Mains socket-outlets with earth shall be in	of the text the	II CLI		
	compliance with DS 60884-2-D1:2011	with the the th	120		
	Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-	, t	+ 11		
	5a or DK 1-7a	TEX ITEX SITES OUT	White.		
	a made at the settle settle	The the the			
	Justification:	Et TEX	TEK		
in an	Heavy Current Regulations, Section 6c	The state of the s	2/2 1		
G.4.2	United Kingdom	Not directly connected to the	N/A		
	To the end of the subclause the following is	mains	ar ar		
	added:	when the the			
		a the state of	6 J		
	The plug part of direct plug-in equipment shall be	TITE NITE WILL WAL	. In		
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,	24, 24, 2,			
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not	at at the the	CLIFE"		
	less than 125 °C. Where the metal earth pin is	WELL MELL MUE MUE	· 2/1.		
	replaced by an Insulated Shutter Opening Device		- L		
	(ISOD), the requirements of clauses 22.2 and 23	THE THE THE STILL	all Line al		
	77	10 10 10 10 10 10 10 10 10 10 10 10 10 1	30		
	also apply.				
G.7.1	also apply. United Kingdom	a at at at	N/A		
G.7.1		it writes writes writes wr	N/A		
G.7.1	United Kingdom To the first paragraph the following is added:	A MUTER MUTER MUTER AN	N/A		
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or	A MUNITER MULTER MULTER MU	N/A		
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains	A MULTER MULTER WALTER WAL	N/A		
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that	AND TEX MULTER WALTER WAS	N/A		
G.7.1 TEN	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a	A MUNITER MULIER MULIER MULIER	N/A		
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and	MATER WALTER WALTER WALTER	N/A		
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory	Munifest whitest white	N/A		
G.7.1 TE	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by	Whitek wh	N/A		
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory	AND TEK WALTER WALT WALTER WAL	N/A		
G.7.1 TEN	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by	Whitek wh	N/A		



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The Main	Mr. Mer an	IEC 62368-1	TER OUTER WILLER	rip Auril Auri
Clause	Requirement – Test	Tite, Muring My My	Result – Remark	Verdict

2/1	The state of the s	The state of the state of	10.
G.7.1 CONTRACTOR OF THE PARTY O	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State	Whitek wh	N/A
- 15	which is equivalent to the relevant Irish Standard		- Jek
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	untites whites whites whites	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	is me me m	N/A
10.5.2 FE	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address:	No CRT within the equipment.	N/A STATE OF THE S
ZD	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de IEC and CENELEC CODE DESIGNATIONS FOR I	FLEXIDLE CODDO (EN)	PW



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AL.	74. 74. 27.	IEC 62368-1	ITER MILIE MALLE	ing an	21/2
Clause	Requirement – Test	i with the m	Result – Remark	at d	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords	l	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible con	d 60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		1 35
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed co	rd 60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds	7	
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated an sheathed flexible cords	nd	H05Z1Z1-F H05Z1Z1H2-



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Ġ	July.	IEC 62	2368-1	mer mer
	Clause	Requirement – Test	Result – Remark	Verdict

5.2	TABLE: Classificat	ion of electrical er	nergy source	es		t	P
Supply	Location (e.g.	, o		, o			ES
Voltage	circuit designation)	-	U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
5VDC	ITEX LITER OU	Normal	5.0VDC	n -2n	SS	DC	ES1
	DC input	Abnormal	Jak .	TER TILE	MITE V	Vice Aller	(Declar ed)
	NI WALTER WALTE	Single fault – SC/OC	10 To	y Tex	SLIEK NI	EX IFE	
<i>*</i>	CENT TEXT STEET	Normal	4.2VDC	71, 7	SS	DC	ES1
4.2VDC	Battery output	Abnormal	CENT CENT	. LT ^{EM} . N.	112 11/2	WILL M	Wry an
	Lanciek whitek	Single fault – SC/OC	Elk Fills	764 76	t JIEN	nite l	EX WALT

Supplementary information:

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

 Normal –Full load and no load.

 Abnormal Overload output

SC= short circuit; OC= open circuit

5.4.1.8 TABLE: Working	ng voltage measu	rement		N/A
Location	RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
- WILL MULL MULL A	1 21 -	. 	et -et	LIER MITER JULIE MALL
- 1 1 1 1 1	TE NITER WAL	Mr. Mr.	11/2 11	- t - t
Supplementary information:				
L A A A	t the all	we we	2/1, 21,	- L A

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method		: ISO 306 / B50	MUTE MU -		
Object/ Part No./Material Manufacturer/trademark		Thickness (mm)	T softening (°C)		
-ner mer me m	The set of	A STEE WITE OF	the wife - wife a		
Supplementary information:					
NET. THE ME AND	The set set	LIFE OLITE MALI	The Mr. Mr.		

5.4.1.10.3	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics					N/A	
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm						_
Object/Part	Object/Part No./Material Manufacturer/trademark Thickness		(mm)	Test temperature (°C)	Impi diame	ession ter (mm)	



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, m	14, 15,		IEC (32368-1	White where	Mer. M	te m
Clause	Requirement	– Test	in mr. m	Resi	ılt – Remark	it i	Verdict
ale.	24, 24,	3,, ,	. 4	Et JEE	Lite Will of	ic mi	200
- 4	TEX TEX	TIER MIE	INCIE WA	2112		,t .0	- Let
Suppleme	entary information	າ:					
et.	CENT SERVICE	TER SITE	unit whi	24. 24.	1 4		, et

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (kHz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
with mail mail mar	27	47	_A		KOL.	56t5	EK 11/15	. 10 LIV.

Supplementary information:

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

5.4.4.2	TABLE: Minimum	TABLE: Minimum distance through insulation					
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)		
- ,et	TER TER ST	WITE WILL WAL	111 - 21,		et - et		
Supplemen	tary information:						
*See also s	sub-clause 5.4.4.9	The True		J 15	et set s		

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							
Insulation material	E P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)	
- WILL MULL MULL M	- Mr.	- 4	# 11+	-TEX STE	- CLIER OF	ZE MILIE	
Supplementary information:							
will will the shirt	24	, ,,,,,,,,		CENT SEPT	JEE RIT	TIPLY T	

5.4.9 TABLE: Electric	strength tests	at at at	TEX LIEK ALT	N/A
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Functional:	TER WALLE WALL	211. 211. 21.	1 1 2+	LEF LEF
-nur mr. m.	L St. Set	- JEK STER MIT	- with while h	Vr. 170 1
Basic/supplementary:	WILLE MU	20 20 20 Z	at at a	CENT STEP ST
The Me Me And	At All the	TIEK NITER WITE	while mury my	21/2 21/2
Reinforced:	Will Mr. A		at at a	F STEP STE
- 1/11 1/11 1/11	et stet si	ER OLITER WITE W	The Maria Maria	21/2 - 21/2
Routine Tests:	in Mr. M.		et let let	ALTER OLITER
- 4, 4,	et let site	- nite white whi	- me me.	ig. 20
Supplementary information:				



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In The	M 24 2.	IEC 62368-1	LIER UNLIER WALLE WAL	Mr. Mr.
Clause	Requirement – Test	with any	Result – Remark	Verdict

5.5.2.2	2.2 TABLE: Stored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
als -	70, 1		Normal	TER WATE O	Will Arrive	21/2 -21/2
NATEY -	unliek un	ITER WHITE WHITE	Single fault: SC/ OC	t ster s	TEK TEK	LIEK -LIEK

Supplementary information:

X-capacitors installed for testing are:

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

5.6.6	TABLE: Resistance of	tions	N/A		
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
<u> </u>		the west	win -wer	2 1 1 1 2 1	
Suppleme	entary information:				
		TE RET	70. 7	Lin. 10	,

TABLE	E: Unearthed acces	ssible parts				N/A
	Operating and	Supply	F		ES class	
	fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
ndary	Normal	7 4 70	- 51 ⁰¹ 517 ¹⁰	nlife anlife	WVT.	100 - W
	Abnormal: overload	MULT - MULT	The Tex	iter siter	MLTER N	LIEY WAL
Single fault: SC/ OC	LIEF WHILE	Mury -our	n zn	5EX-	er - cites	
		Operating and fault conditions Normal Abnormal: overload Single fault:	fault conditions Voltage (V) Normal Abnormal: overload Single fault:	Operating and fault conditions	Operating and fault conditions	Operating and fault conditions

SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed acces	sible conductive part	<i>2</i> 1	at at	N/A
Supply volta	age (V)	- et let let	LIFE CLIEF OF	NIT WALL W	_
Phase(s)		[] Single Phase; [] Three	Phase: [] Delta	[] Wye	
Power Distr	ibution System	[]TN []TT []IT	Elt STEEL WI	in with whi	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	nt
- 12, 1	1 2 2 2	ex alter mile unit	we - me	24, 24,	7.
- JEE . W	THE WITE WALL WALL	24, 25		The Car	CLIER
Supplemen	tary Information:				



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Le Mr	14. 14. 1.	IEC 62368-1	iter uniter white whi	any and
Clause	Requirement – Test	mer my m	Result – Remark	Verdict

5.8	.8 TABLE: Backfeed safeguard in battery backed up supplies							
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
CIENT STEEK	NUTER	MITE - WILL	mrnu		, , , , ,	et -set	TER STE	
Supplementary information:								
- CIER	alifer all	Live Main	me me		at at	TEX S	JER JEE	

6.2.2	TABLE: Power sourc	e circuit classif	ications			P
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
DC Input	Normal operation	5.0 LTE	1.0	5.0	3S	PS1
Battery Outp	ut Normal operation	2.68	6.9	18.5	58	PS2
Battery Outp	ut Single fault (U3 pin 4-3 SC)	0	Et OET	TEX OUTER	38	PS1
Battery Outp	ut Single fault (U3 pin 4-2 SC)	An 0 A	0	0	38	PS1
Battery Outp	ut Single fault (U3 pin 3-2 SC)	1,0 1	0	0	35	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: Determi	nation of Arcing PIS	H TEH TEH	alifer outer of	N/A J		
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No		
_ z _n	4 4	et et site	MITE TOLIN	in me me	20, 20		
Supplementary information:							
7/1 10		L St JET	with all will	" " " " " " " " " " " " " " " " " " "	24. 24.		

6.2.3.2 TABLE: Determ	nination of resistive PIS	in the Mill Mill .	N. ALD
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	Intell White White White	on on - or or	Yes (declaration)

Supplementary information:

All circuits are considered as resistive PIS;

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

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

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single



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	Clause	Requirement – Test	Result – Remark	Verdict

fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High pre	essure lamp	Tet Stet S	LIEK WITER WAY	N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
- LIEN 1	LIFE WALLE WAL	- wer were	-, + .+	Alt- Alth	JIE - JIER
Supplement	ary information:				
CIEN CL	E WITE WALL	mr. m. m.	1 1 1	et let	LIET SLIEF ON

9.6 TABL	E: Temper	ature mea	surement	s for wirel	ess power	transmitte	ers	N/A
Supply voltage (V)				RLIER	WILLE W	TIL WILL	m	_
Max. transmit powe	er of transn	nitter (W)		- J		et let	CIEN	_
11/2 / 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1				eiver and contact	111 10001101 0 111 100011		ceiver and at ce of 5 mm	
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
WEL MUT. IV	V 2/	FAY		et - det	_ <u>.c/</u> +	- nu	107 LT	Mr M
Supplementary info	rmation:							
in in	2, ,		1 10	- Let	JE N	The Marie	NATA.	MUT. MIL.

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurem	ents				P	
Supply volta	age (V):	5Vdc	4.2Vdc	17 CT	100 - 100 C	_	
Ambient ter	mperature during test T_{amb} (°C):	See below	See below	ابر	et - et	_	
Maximum n	neasured temperature <i>T</i> of part/at:		7 (°C)				
Input wire	Mr. Mr. M. M.	53.9	40.4	17/16	Jane 1	60	
PCB near I	C and LED	42.2	40.5	'T	75	105	
Enclosure in	nside Top near IC	42.6	40.4	NIVIE .	anti an	70	
Enclosure in	nside Bottom near IC	42.4	40.8	_T		70	
Enclosure in	nside Top near Battery	41.9	40.5	14 - W	4/10	70	
Enclosure in	nside Bottom near Battery	42.4	40.8	J J	et -164	70	
Ambient	The set of the	40.0	40.0	4/100	7,00	z ₁₁ _{2,1}	
Enclosure C	Outside Top near IC	25.4	25.2	(1)	- Cart	48	
Enclosure C	Outside Bottom near IC	25.5	25.4	Min	1/10 1/1	48	
Enclosure C	Outside Top near Battery	25.8	25.3	1-3th	JE _ J	48	



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Vie mill	Mr. My My My	IEC 62368-1	ITEH OLIFE WILLER	Tite Mile Miles
Clause	Requirement – Test	Aurice Mr. M.	Result – Remark	Verdict

Enclosure Outside Bottom	25.7	25.2	`	35	48		
Ambient	. J.	*	25.0	25.0	THE MITTER	اس- مارا	14/5, 14
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class
- 4 4	- 	JE	THE WALL	72	2012 - 201	- 2	J- 3

Supplementary information:

Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1.

B.2.5	(T	ABLE: Inp	out test	MILL	10,	20,	-4°	A At THE THEP THE
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5VDC	ān	0.03	1,	0.15	LTEX. WY	TEK UN	liek- _W ni	Powered by 5VDC with empty battery (at battery charging mode)

Supplementary information:

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

B.3, B.4 T.	ABLE: Abnorn	nal operating	g and fau	It conditi	on tes	sts	in in	Р
Ambient temp	erature T _{amb} (°	C)				See b	elow	_
Power source	for EUT: Manu	ufacturer, mo	del/type, d	outputratir	ng :	-21/2	111 111	_
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	1
U3 pin 4-3	S-C	5Vdc	10mins	7 EM 10	0.0	028	Unit shutdown immedi recoverable. no hazare	

	at let	TEK TE	- CLIEF W		The Mul	Whi.	Ambient: 25.0 °C.
(C)	U3 pin 4-2	S-C	5Vdc	10mins	y - TEX	0.008	Unit shutdown immediately, recoverable. no hazard. Ambient: 25.0 °C.
V	U3 pin 3-2	S-C	5Vdc	10mins	uni ze v	0.008	Unit shutdown immediately, recoverable. no hazard. Ambient: 25.0 °C.

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.

^{*} Temperature limit for TS1 of accessible enclosure according to Table 38 to be measured at normal ambient temperature.

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 40°C.

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



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1000 0100	M. M. M.	IEC 62368-1	The Mr.
Clause	Requirement – Test	Result – Remark	Verdict

M.3	TABLE: Pr	otection circu	its fo	or batterie	es provid	led wi	thin	the equ	ipment	P.
ls it possible	to install the	battery in a re	everse	e polarity _l	position?.	:	e e	MATE.	metre where	_
					C	Chargii	ng			
Equipment S	Specification		Vol	tage (V)					Current (A)	
		ONLINE WA	See t	able B.2.5	20, 7			S	ee table B.2	.5
					Batter	y spec	ifica	tion		
		Non-recharge	eable	batteries			Red	hargeab	le batteries	
		Discharging	_	ntentional	Charging		1	Discharging	Reverse	
Manufacturer/type		current (A)	t (A) charging current (A)		Voltage (V) Current (mA)			current (mA)	charging current (A)	
energy tech	ngyi lithium Inology Co., 500-500mAh	t the	NLT.	611E.K	4.2	NLTER	0.25		WALTER	white s whi
Note: The te	sts of M.3.2 a	re applicable o	only w	hen abov	e appropr	riate da	ata is	s not ava	ilable.	
Specified ba	ttery tempera	ature (°C)	<u>+</u>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		الى:		"one	0-50	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp.	Curr (A		Voltage (V)	Obs	ervation
Battery	Normal	Charge	21/2	7h	CTEN	0.02	28	4.2		al working, no No hazard.
Battery	U3 pin 4-3 SC	Charge	EK	7h	ULLER OU	0	MILT M	O MILL	Unit shutd immediate Recoverate damaged,	ly.
Battery	Normal	Discharge	; ;	7h	TEK -NALTY	0.00	08	4.2		al working, no No hazard.
Battery	U3 pin 4-2 SC	Discharge	MACI	Z7h	WALTER -	WIN O	, ,	0	Unit shutdown immediately. Recoverable. No damaged, no hazard	
	20, 2			10				115	damageu,	no nazaru.

M.4.2	TABLE: battery	Charging sat	feguards for	equipment c	onta	ining a se	condary lithium	Р
Maximum	specified o	charging voltag	je (V)		رين	4.2	mer mer	_
Maximum	specified o	charging currer	:	0.25				
Highest s	pecified cha	arging tempera		50				
Lowest s	pecified cha	arging tempera	ture (°C)		i_	0 👉	TEK STEK IN	
Battery Operating			Measurement				Observation	on
manufact	urer/type	and fault condition	Charging	Charging		Temp.		



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

		voltage (V)	current (A)	(°C)	
Lowest specified cha	rging temperat	ure: 0°C	A A	t Jet N	EL WILL MULL MULL
Henan Hengyi lithium energy technology Co., Ltd	Normal	4.2	PLE OUTER	Battery temperature: 0°C	The battery charging current decreases
/ IMR14500- 500mAh	Single fault 4.2 – (U3 pin 4-3 SC)		O THE THE	Battery temperature: 0°C	The battery charging current decreases
Highest specified cha	arging tempera	ture: 50°C	at a	Et JEK J	THE OLITE MILTE MALTE
Henan Hengyi lithium energy technology Co., Ltd	Normal	4.2	un 0 un	Battery temperature: 50°C	The battery charging circuit stop charging
/ IMR14500- 500mAh	Single fault – (U3 pin 4- 3 SC)	4.2	O STATES	Battery temperature: 50°C	The battery charging circuit 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) N/A								
Output	Condition	11 00	Time (a)	I _{sc} ((A)	S (VA)			
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit		
t cet	LIER SLIER WITE	While Mrs	-Mr.	20, 21,	1. A	4	EX JEX		
Mur. M	4, 2,	A TEX	- JEH	LIER WIT	" NITT	mer me	1/1/2		
JEK J	ER STEE SPITE ON	The Mark	211 21	, , , , , ,	*	LEK LE	- JEH		
me me	20, 20,	et Let	LITEN INT	I MILIE	When My	r. Mr.	1/11 1/11		

Supplementary Information:

SC = short circuit, OC = open circuit

* Unit shutdown immediately, recoverable, no hazard.

T.2, T.3, T.4, T.5	TABLE: S	teady force te	est			N/A
Location / Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
et let	SEX.	JEK MITE	Mr. 1	V 1	1 10	L A A A A A
Chris	211 211	2,,	EX.	CENT .	JEK STER	write while while while while
+ SEX	CTER OUT	I WITE V	L. 211	21/2	737	A OF OF THE STEE
Supplementa	ary informati	on:				



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the way	The The Till	IEC 62368-1	TET TET WITTE	rtil written
Clause	Requirement – Test	WILL MUTTE ME ME	Result – Remark	Verdict

T.6, T.9	TABLE: Im	pact test	Mr. M. A.	N/A	
Location/Pa	art Materia	Thickness (mm)	Height (mm)	Observation	
NITE WILL	21/17, 1	W M. M.	4,	let tel tiet while while	Will all
-L -X+		CENTER STEET	WITE WY	in in in	A .
ALL WALLE	Mr. M.	2/1, 2/1,	2 7	y the life alies write on	in win
Supplemen	tary informati	on:			
all the	10 m	20. 20. 2		THE THE LIFE MIT ME	- Unit

		Height (mm)	
s d	Let Let	SLIFE MAL	when any any and
MULL	me me	(A)	THE THE STEE STITLE MATERIALITY
- 2	Test Clerk	LIEN WILLE	must any mis and surface
	est superior	information:	EL TEL TEL TEL METER

T.8	ABLE: Stress	s relief test	MITER		7 3	100 111	2),	N/A
Location/Part	Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation			
ALT. AL.	11, 1	, <u>, , , , , , , , , , , , , , , , , , </u>	cet set	-CIEN II	LIE SINLIE	MALLE	ALL.	MUL
Supplementary	information:							
me m	20, 20,		t let	OFF ST	er all	NALITY	100 71	V. 7

X	an.r.	TABLE: Alternative method for determining minimum clearances distances N/A							N/A		
	Clearance distanced between:		Peak of	Peak of working voltage (V)			Required cl (mm)			Measured cl (mm)	
	٠,٤	at at	1 th 1	(h - 1017	MAL	The	. Th	. 44.	20,	, <u>, , , , , , , , , , , , , , , , , , </u>	
Su	pplement	ary information:									
	4	est sett s	TEN TIEN	MILITA	WILL	Mr	Mr.	20	20.		J.



Reference No.: WTF25D06150612Y Page 67 of 67

The Court	The The The	IEC 62368-1	LIER WHITE WALLEY WA	the many and
Clause	Requirement – Test	Will Mary My My	Result – Remark	Verdict

4.1.2	TABLE: Critical components information				P-
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic Enclosure	LG Chem Huizhou Petrochemical Co Ltd	AF312C	V-0, 70°C	UL 94	UL E476284
Battery	Henan Hengyi lithium energy technology Co., Ltd	IMR14500- 500mAh	3.7V, 500mAh	IEC 62133- 2:2017	TUV-CB Report CN24LSLJ 002
PCB UNITED	MEIZHOU WEILIBANG ELECTRONIC TECHNOLOGY CO LTD	W-8286	V-0, 130°C	UL 796	UL E354175
Alternative	Interchangeable	Interchangeabl e	Min. V-1, Min. 105°C	UL 796	UL CLIER
Wire	HAOMING (HK) LTD	2464, 2725, 20276, 2990, 2919.	Min. 60°C, Min. 30V, VW-1	UL 758	UL E335958
Alternative	Interchangeable	Interchangeabl e	Min. 60°C, Min. 30V, VW-1	UL 758	JE UL JET WA

Supplementary information:

¹⁾ License available upon request. Provided evidence ensures the agreed level of compliance.

²⁾ See OD-CB2039.



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Photo Documentation



Figure 1: Over view



Figure 2: Over view



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Photo Documentation



Figure 3: Overall view



Figure 4: Over view



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Figure 5: Over view



Figure 6: Overall view



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Photo Documentation



Figure 7: Internal view



Figure 8: Internal view



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Photo Documentation



Figure 9: Internal view

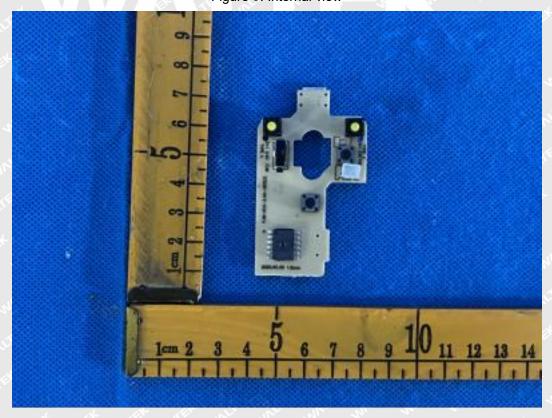


Figure 10: PCB view



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Photo Documentation

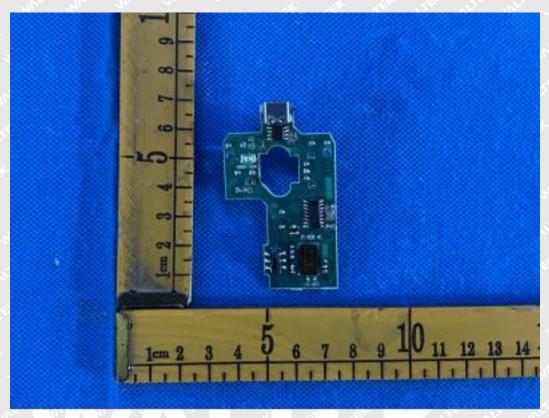


Figure 11: PCB view



Figure 12: Battery view ===== End of Report ======