



TEST REPORT

Reference No	: 11	WTF23D05100085Y
Applicant	: <	Mid Ocean Brands B.V.
Address	AUL	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	Nº16	106613
Address	j.t.	- TEK TEK WHITEK WHITE WHITE WHITE WHITE WHITE WHITE
Product	: <	Optical mouse in RABS bamboo
Model(s)	۲: م	MO2085
Total pages	200	66 pages and 3 pages of photo.
Standards	177	⊠ EN IEC 62368-1:2020+A11:2020
		Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample	:	2023-05-10
Date of Test	¢.	2023-05-10 to 2023-05-23
Date of Issue	: ``	2023-05-23
Test Result		Pass At at at

Remarks:

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

Prepared By: Waltek Testing Group Co., Ltd. Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China Tel:+86-769-2267 6998 Fax:+86-769-2267 6828

Compiled by:

apthe

Soap Hu / Project Engineer

Approved by:

Almon Zhao / Designated Reviewer

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Test item description	ptical mous	e in RABS bamboo
Trademark M	1OB	
Model and/or type reference M	102085	
Rating(s) Av	A*1	
Remark:		
Whether parts of tests for the product have	e been sub	contracted to other labs:
☐ Yes		
If Yes, list the related test items and lab in	formation:	
Test items:		
Lab information:		
Summary of testing:	NUTER MA	in which which we will be at
Tests performed (name of test and test	clause):	Testing location:
- EN IEC 62368-1:2020+A11:2020		No. 77, Houjie Section, Guantai Road,
The submitted samples were found to com	nply with	Houjie Town, Dongguan City, Guangdong, China
the requirements of above specification.	+ 1 ⁰⁷	with white white white the second
Summary of compliance with National I EU Group Differences	Difference	s (List of countries addressed):
when when we are get		set where while while while while while
EU Group Differences	EN IEC 62	368-1:2020+A11:2020.
EU Group Differences Image: The product fulfils the requirements of Use of uncertainty of measurement for Image: No decision rule is specified by the I applicable limit according to the specific	EN IEC 62 decisions IEC standa cation in th	368-1:2020+A11:2020. on conformity (decision rule) : ard, when comparing the measurement result with the at standard. The decisions on conformity are made
EU Group Differences The product fulfils the requirements of Use of uncertainty of measurement for No decision rule is specified by the I applicable limit according to the specific without applying the measurement unce "accuracy method").	EN IEC 62 decisions IEC standa cation in th ertainty ("sir	368-1:2020+A11:2020.
EU Group Differences The product fulfils the requirements of Use of uncertainty of measurement for No decision rule is specified by the I applicable limit according to the specific without applying the measurement unce "accuracy method"). Other: (to be specified, for example v requirements apply) Information on uncertainty of measurer The uncertainties of measurement are cal	EN IEC 62 decisions IEC standa cation in th ertainty ("sir when requi when requi ment: lculated by	368-1:2020+A11:2020. on conformity (decision rule) : ard, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as
EU Group Differences The product fulfils the requirements of Use of uncertainty of measurement for No decision rule is specified by the I applicable limit according to the specific without applying the measurement unce "accuracy method"). Other: (to be specified, for example v requirements apply) Information on uncertainty of measurem The uncertainties of measurement are cal OD-5014 for test equipment and applicatio IECEE. IEC Guide 115 provides guidance on the the decision rule when reporting test r	EN IEC 62 decisions IEC standa cation in th ertainty ("sin when requi ment: lculated by on of test m e applicatio results with	368-1:2020+A11:2020. on conformity (decision rule) : ard, when comparing the measurement result with the at standard. The decisions on conformity are made mple acceptance" decision rule, previously known as red by the standard or client, or if national accreditation the laboratory based on application of criteria given by

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Copy of marking plate:



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.

TEST ITEM PARTICULARS:	net whe whe was to the set
Product group	⊠ end product □ built-in component
Classification of use by:	 Ordinary person Instructed person Skilled person
Supply Connection:	 AC mains DC mains M not mains connected: ■ ES1 ■ ES2 ■ ES3
Supply % Tolerance:	 □ +10%/-10% □ +20%/-15% □ +%/% ≥ None
Supply Connection – Type:	 pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector is other: not Mains connected
Considered current rating of protective device as part of building or equipment installation:	 □ UK: 13 A; Others: 16 A; 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 II □ Class II
Access location:	 N/A □ restricted access area outdoor location □
Pollution degree (PD)	□ PD 1⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient :	25°C 🔲 Outdoor: minimum°C
IP protection class	
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)	⊠ 0.05kg

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POSSIBLE TEST CASE VERDICTS:	and wat wat we are a start
- test case does not apply to the test object:	N/A
- test object does meet the requirement: :	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	when we are the set
Date of receipt of test item:	2023-05-10
Date (s) of performance of tests:	2023-05-10 to 2023-05-23
GENERAL REMARKS:	ister wifer white white white white
"(see Enclosure #)" refers to additional information ap	pended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

GENERAL PRODUCT INFORMATION:

Product Description

1. The EUT covered by this report is a Optical mouse in RABS bamboo. It is supplied by internal AAA Cells supply.

2. The manufacturer specified maximum ambient temperature is 25°C.

Model Differences

N/A

Additional application considerations – (Considerations used to test a component or subassembly)

N/A

\checkmark		
V		
	10	
		Y

Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part Safegu			ards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All circuit	Ordinary	N/A	N/A	N/A ->	
6	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S	
PS1: All circuit	Output circuits	N/A	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	
8	Mechanically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
MS1: Mass of the unit	Ordinary	N/A	N/Ă	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 s	

ENERGY SOURCE DIAGRAM

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

\boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \bigcirc

See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS

 $\boxtimes \mathbf{RS}$

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1 - S.		EN IEC 62368-1	W. W. W. A.
Clause	Requirement – Test	Result – Rem	ark Verdict

4	GENERAL REQUIREMENTS	6	P
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	SUC 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	ALL P
4.1.3	Equipment design and construction	Equipment is adequately designed and constructed.	N ^{III} 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)	P
4.4.3	Safeguard robustness	See below	, SP
4.4.3.1	General	- 2 Jun - 24	Р
4.4.3.2	Steady force tests	(See Annex T.4)	ST Por
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	of the state of the source	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 mer	Glass impact test (1J)	where our only white white of	N/A
et et	Push/pull test (10 N)	a tot	
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	P
4.4.3.9	Air comprising a safeguard	a stat at	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests, no safeguard damaged.	P
4.4.4	Displacement of a safeguard by an insulating liquid	No such liquid.	N/A
4.4.5	Safety interlocks	No such parts.	N/A
4.5	Explosion	U. M. M. M. M.	Р
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions	Р
4.5.2	No explosion during normal/abnormal operating	(See Clause B.2, B.3)	An B



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Clause	Requirement – Test	Result – Remark	Verdict
where the	condition	White white white white	when we
walt w	No harm by explosion during single fault conditions	(See Clause B.4)	mer mP

4.6	Fixing of conductors	let the the star	N/A
	Fix conductors not to defeat a safeguard	and me me me	N/A
er intre	Compliance is checked by test	at set wet wet	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)	Mr. m. r.	N/A
4.8	Equipment containing coin/button cell batterie	S TILL NILL WITH WITH	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
1.8.2	Instructional safeguard	la man man	N/A
4.8.3	Battery compartment door/cover construction	let the with miles wh	N/A
it.	Open torque test	with the second	N/A
4.8.4.2	Stress relief test	t when white white white	N/A
1.8.4.3	Battery replacement test	MI MI A A	N/A
4.8.4.4	Drop test	and white white	N/A S
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test	The south white white w	N/A
4.8.5	Compliance	and the state of the	o∽ N/A
m	30N force test with test probe	the white white white white	N/A
JEt	20N force test with test hook	at at at all	N/A
4.9	Likelihood of fire or shock due to entry of conc	luctive object	June 1
4.10	Component requirements	at the set set	N/A
4.10.1	Disconnect Device	white white when when we	N/A
4.10.2	Switches and relays	at at let set	∽_N/A ∕

5	ELECTRICALLY-CAUSED INJURY		er ₽
5.2	Classification and limits of electrical energy sources		∾Р
5.2.2	ES1, ES2 and ES3 limits	at at at at	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	No such capacitors	N/A S
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	the set ster at	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
where a	at at a start of	et aller with which we	in ann
5.3	Protection against electrical energy sources	w w a	P.
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	WALTER WALTE WALTE WALT	P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	and and whet when	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	at all all states	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit and the enclosure (safeguard) are accessed to person.	P
dt.	Accessibility to outdoor equipment bare parts	Mr. Mr. Mr.	N/A
5.3.2.2	Contact requirements	white white white white	N/A
1 10	Test with test probe from Annex V	and the state	
5.3.2.2 a)	Air gap – electric strength test potential (V)	LIER MAIL MALL MALL	N/A
5.3.2.2 b)	Air gap – distance (mm)	a to the the	N/A
5.3.2.3	Compliance	en until white white w	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	white white white white	P
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	N/A
5.4.1.3	Material is non-hygroscopic		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)	NUTE P
5.4.1.5	Pollution degrees	e at at at	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	water water water water	N/A
5.4.1.5.3	Thermal cycling test	miles while while whi	~ ⁰ N/A
5.4.1.6	Insulation in transformers with varying dimensions	and the state	N/A
5.4.1.7	Insulation in circuits generating starting pulses	NUTER MALTE WALL WALL	N/A
5.4.1.8	Determination of working voltage	a at at at	N/A
5.4.1.9	Insulating surfaces	it white white whe w	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	with white white wh	N/A
5.4.1.10.2	Vicat test	a to the fil	N/A
5.4.1.10.3	Ball pressure test	White white white white	N/A
5.4.2	Clearances	a at at alt	N/A
5.4.2.1	General requirements	LIES MALL WALL WALL	N/A
* WALTER	Clearances in circuits connected to AC Mains, Alternative method	et minet minet whitet an	N/A
5.4.2.2	Procedure 1 for determining clearance	24. 1	N/A



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Clause	EN IEC 62368-	<u></u>	\/_ nd! - 1
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Procedure 2 for determining clearance	nu nu nu	N/A
5.4.2.3.2.2	a.c. mains transient voltage	JEK JEK NICK	SINT -
5.4.2.3.2.3	d.c. mains transient voltage	wer mer on	<u> </u>
5.4.2.3.2.4	External circuit transient voltage	with with white	
5.4.2.3.2.5	Transient voltage determined by measurement	A AN AN A	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	And WALLEY WALLEY WAY	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	WINTER WITTER WALTE	N/A
5.4.2.6	Clearance measurement	The state out of	N/A
5.4.3	Creepage distances	me me en	N/A
5.4.3.1	General	TEX NITER WITE W	N/A
5.4.3.3	Material group	and the second	"+ —
5.4.3.4	Creepage distances measurement	et miter white white	N/A
5.4.4	Solid insulation	1 A B	N/A
5.4.4.1	General requirements	White white white	N/A
5.4.4.2	Minimum distance through insulation	at a sta	N/A
5.4.4.3	Insulating compound forming solid insulation	Junit v	N/A
5.4.4.4	Solid insulation in semiconductor devices		<u></u> N/A
5.4.4.5	Insulating compound forming cemented joints	is which which wh	N/A
5.4.4.6	Thin sheet material	the set set is	N/A
5.4.4.6.1	General requirements	Mr. Mr. m.	N/A
5.4.4.6.2	Separable thin sheet material	. Tet . Let	N/A
s. I	Number of layers (pcs)	me me m	N/A
5.4.4.6.3	Non-separable thin sheet material	till state attact of	N/A
st at	Number of layers (pcs)	a she so a	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	let antifet white whi	N/A
5.4.4.6.5	Mandrel test	t the state state	N/A
5.4.4.7	Solid insulation in wound components	me me m	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	Whitek whitek whitek	N/A
JEL WALTER	Alternative by electric strength test, tested voltage (V), $K_{\rm R}$	LIET MALTER MALTER W	N/A
5.4.5	Antenna terminal insulation	e at at a	⊳ N/A
5.4.5.1	General	White white white	N/A
5.4.5.2	Voltage surge test	a at the	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
<u> </u>		the water water water	
5.4.5.3	Insulation resistance (MΩ)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
m. in	Electric strength test	month white white	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	THE THE MINE	N/A
5.4.7	Tests for semiconductor components and for cemented joints	at not not	N/A
5.4.8	Humidity conditioning	me me m	N/A
WALTER	Relative humidity (%), temperature (°C), duration (h)	A MALEY MALTER WALTE	uni —
5.4.9	Electric strength test	that the	N/A
5.4.9.1	Test procedure for type test of solid insulation	white white white	N/A
5.4.9.2	Test procedure for routine test	at at at	N/A
5.4.10	Safeguards against transient voltages from external circuits	it was was w	N/A
5.4.10.1	Parts and circuits separated from external circuits	er unite white white	N/A
5.4.10.2	Test methods	the state	N/A
5.4.10.2.1	General	white white white	N/A
5.4.10.2.2	Impulse test	A CAR	N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test	The watch watches	N/A
5.4.11	Separation between external circuits and earth	e so sta st	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	white white white	N/A
5.4.11.2	Requirements	white mare white	N/A
LIEX WALL	SPDs bridge separation between external circuit and earth	the set with	N/A
x x	Rated operating voltage U _{op} (V)	the second se	
WALT	Nominal voltage U _{peak} (V)	let street out of any	·
jit-	Max increase due to variation ΔU_{sp}		
which wh	Max increase due to ageing ∆Usa	NUTER MUTER WALTE	uni -
5.4.11.3	Test method and compliance	a state	N/A
5.4.12	Insulating liquid	INTER UNITED WATER	N/A
5.4.12.1	General requirements	s it it	
5.4.12.2	Electric strength of an insulating liquid	LTC MALT WALL W	N/A
5.4.12.3	Compatibility of an insulating liquid	t at at a	N/A
5.4.12.4	Container for insulating liquid	MALE MALE WILL	N/A
5.5	Components as safeguards	st at at	N/A

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<u>Olavia st</u>	Detring TAL S N	Desult Demende	Manaliat
Clause	Requirement – Test	Result – Remark	Verdict
5.5.1	General	No such components as safeguards.	N/A
5.5.2	Capacitors and RC units	and and an an	N/A
5.5.2.1	General requirement	aft aft with mit	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	at all the set whet	N/A
5.5.3	Transformers	we we we we	N/A
5.5.4	Optocouplers	t set set set	N/A
5.5.5	Relays	mer me m. 201 2	N/A
5.5.6	Resistors	tet wet with m	N/A
5.5.7	SPDs	me me me	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	LIFE WALTER WALTER WALTE	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment	et aniret waiter waiter	N/A
State	RCD rated residual operating current (mA)	the state	<u> </u>
5.6	Protective conductor	white white white w	N/A
5.6.2	Requirement for protective conductors	1 1 1 1 1	N/A
5.6.2.1	General requirements	Class III equipment	N/A
5.6.2.2	Colour of insulation	and the state state	N/A
5.6.3	Requirement for protective earthing conductors	a me me m	N/A
MUTER	Protective earthing conductor size (mm ²)	at the with with	- în
strek .	Protective earthing conductor serving as a reinforced safeguard	when we get	N/A
alt of	Protective earthing conductor serving as a double safeguard	white water when we	N/A
5.6.4	Requirements for protective bonding conductors	NETE WALL WALL WALL	N/A
5.6.4.1	Protective bonding conductors	a at at at	N/A
211-	Protective bonding conductor size (mm ²)	in which which which	211 -
5.6.4.2	Protective current rating (A)	- it it it	N/A
5.6.5	Terminals for protective conductors	white white white where	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	white white putter whi	N/A
JEX WALT	Terminal size for connecting protective bonding conductors (mm)	Tet stret white white	N/A
5.6.5.2	Corrosion	i i it it	N/A
5.6.6	Resistance of the protective bonding system	et mile white white	N/A
5.6.6.1	Requirements	a stat	N/A
5.6.6.2	Test Method	white white white wh	N/A



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Clause	Requirement – Test	Result – Remark	Verdict
5.6.6.3	Resistance (Ω) or voltage drop	and and and any	N/A
5.6.7	Reliable connection of a protective earthing conductor	white white white white	N/A
5.6.8	Functional earthing	ret ret wret wret wret	N/A
* 0	Conductor size (mm ²)	the set of the	N/A
an when	Class II with functional earthing marking	THE STILL MUTER WATE S	N/A
- 15-	Appliance inlet cl &cr (mm)	341 14 X	N/A
5.7	Prospective touch voltage, touch current and p	rotective conductor current	N/A
5.7.2	Measuring devices and networks	No a state	N/A
5.7.2.1	Measurement of touch current	MITER MATER MALIT MALI	_√ [™] N/A
5.7.2.2	Measurement of voltage	in at at alt	Ń/A
5.7.3	Equipment set-up, supply connections and earth connections	the wait water water	N/A
5.7.4	Unearthed accessible parts	et when when when w	N/A
5.7.5	Earthed accessible conductive parts	the state	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	White White while whi	N/A
NUTE WAY	Protective conductor current (mA)	At anti-	N/A
A A	Instructional Safeguard		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	and white white white	N/A
5.7.7.1	Touch current from coaxial cables	t set set with a set of	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	when when any set	N/A
5.7.8	Summation of touch currents from external circuits	while while white with	N/A
it with	a) Equipment connected to earthed external circuits, current (mA)	NITE WAIT MALL WAL	N/A
white	b) Equipment connected to unearthed external circuits, current (mA)	WALTER WALTER WALTE W	N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
4	Mains terminal ES	No battery used	N/A
NUTE IN	Air gap (mm)	At 1th 5th 50	N/A

6	ELECTRICALLY- CAUSED FIRE	NUT PUNIT
6.2	Classification of PS and PIS	Р



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Clause	Requirement – Test	Result – Remark	Verdict
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)	- Pol
6.2.3	Classification of potential ignition sources	See the following details.	St P
6.2.3.1	Arcing PIS	y mur mur mur a	N/A
6.2.3.2	Resistive PIS	t at the the the	N/A
6.3	Safeguards against fire under normal operating conditions	and abnormal operating	P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table B.1.5 & B.3)	NUTER S
me	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault condit	tions	⊢ P∢
6.4.1	Safeguard method	Control fire spread	<i>s</i> [™] P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	at muret would	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	The state street	N/A
6.4.3.1	Supplementary safeguards	a me me me	N/A
6.4.3.2	Single Fault Conditions	t with write mitter and	N/A
at .	Special conditions for temperature limited by fuse	when the start	N/A
6.4.4	Control of fire spread in PS1 circuits	street attreet and the and the	JUL P
6.4.5	Control of fire spread in PS2 circuits	with the second second	N/A
6.4.5.2	Supplementary safeguards	street outlet and the world .	N/A
6.4.6	Control of fire spread in PS3 circuits	s s at at	N/A
6.4.7	Separation of combustible materials from a PIS	The intro white white w	N/A
6.4.7.2	Separation by distance	a at at a	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	V-0 plastic enclosure used	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	V-0 plastic enclosure used	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions	No specific barrier provided.	N/A

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and a	EN IEC 62368	11th street white white	and and
Clause	Requirement – Test	Result – Remark	Verdict
Mrs	with with the second se	let stret which which we	and and
6.4.8.3.3	Top openings and properties	No top opening	N/A
we way	Openings dimensions (mm)	white mile mile white	N/A
6.4.8.3.4	Bottom openings and properties	No bottom opening	N/A
er mer	Openings dimensions (mm)	NUTER INTERIORATION WALK	N/A
IEK WALTER	Flammability tests for the bottom of a fire enclosure	Tet allet milet white a	N/A
. A	Instructional Safeguard	The second	N/A
6.4.8.3.5	Side openings and properties	No side openings	N/A
A	Openings dimensions (mm)	All and and and	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No enclosure can be opened by an ordinary person	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating	V-0 plastic enclosure used	N/A
6.4.9	Flammability of insulating liquid	of the state of	N/A
6.5	Internal and external wiring	when when we we	Р
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.	W.P.
6.5.2	Requirements for interconnection to building wiring	See 6.5.1.	NUTER P. L
6.5.3	Internal wiring size (mm2) for socket-outlets	No such wire used	o N/A ∕
6.6	Safeguards against fire due to the connection to a	dditional equipment	P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	JULE M
7.2	Reduction of exposure to hazardous substances	N/A
7.3 📣	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A
m	Personal safeguards and instructions	<u>n </u>
7.5 🦪	Use of instructional safeguards and instructions	N/A
m	Instructional safeguard (ISO 7010)	_
7.6	Batteries and their protection circuits	Ϋ́ Ϋ́ Ϋ́

8	MECHANICALLY-CAUSED INJURY	50 ⁴ P
8.2	Mechanical energy source classifications	P
8.3	Safeguards against mechanical energy sources	P
8.4	Safeguards against parts with sharp edges and corners	Р
8.4.1	Safeguards	Р



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Clause	Requirement – Test	Result – Remark	Verdict
NITEX IN	Instructional Safeguard:	MS1: Edges and corners of enclosure	P
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts	white white whe whe	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
it i	Moving MS3 parts only accessible to skilled person	shi shi at at	N/A
8.5.2	Instructional safeguard	white marter anality and	_s∿`N/A
8.5.4	Special categories of equipment containing moving parts	the state with mittat	N/A
8.5.4.1	General	in the second second	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	et allet milet while an	N/A
8.5.4.2.1	Protection of persons in the work cell	Mr. W. St. A.	N/A
8.5.4.2.2	Access protection override	NUTER INTERNATE WAL	N/A
8.5.4.2.2.1	Override system	the second second	N/A
8.5.4.2.2.2	Visual indicator	The work work	N/A
8.5.4.2.3	Emergency stop system		N/A
t set	Maximum stopping distance from the point of activation (m):	and which which which is	N/A
when w	Space between end point and nearest fixed mechanical part (mm)	White white white white	N/A
8.5.4.2.4	Endurance requirements	where where white white	N/A
LIFE WALT	Mechanical system subjected to 100 000 cycles of operation	ret ret wret wret	N/A
st st	- Mechanical function check and visual inspection	in the state of	N/A
WALTE	- Cable assembly:	int allet allet and an	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	t ret ret ret	N/A
8.5.4.3.1	Equipment safeguards	with with with the	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	TEX TEX WITE WITE	N/A
8.5.4.3.3	Disconnection from the supply	an an an	N/A
8.5.4.3.4	Cut type and test force (N):	TER MITER MUTER MAIL	N/A
8.5.4.3.5	Compliance	and the state	N/A
8.5.5	High pressure lamps	No high pressure lamps used.	N/A
	Explosion test	t at at at	N/A
8.5.5.3	Glass particles dimensions (mm)	white white white white	N/A

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20		EN IEC 62368-1	20 24
Clause	Requirement – Test	Result – Remark	Verdict

8.6	Stability of equipment	The the second	N/A
8.6.1	General	MS1: Mass of the unit	N/A
st.	Instructional safeguard:	Start At At	N/A
8.6.2	Static stability	NUTES UNITED WALLS WALL	N/A
8.6.2.2	Static stability test:	1 A A A	N/A
8.6.2.3	Downward force test	see white white white w	N/A
8.6.3	Relocation stability	t at at at a	N/A
-50	Wheels diameter (mm):	mer and me me	
INLIE N	Tilt test	let set site aster atte	N/A
8.6.4	Glass slide test	Mr. M. M. M.	N/A
8.6.5	Horizontal force test:	set aset when when	N/A
8.7	Equipment mounted to wall, ceiling or other stru	icture	N/A
8.7.1	Mount means type	No wall or ceiling	N/A
8.7.2	Test methods		N/A
mr 1	Test 1, additional downwards force (N):	white white white white	N/A
NITEK WAY	Test 2, number of attachment points and test force (N):	at white white	N/A
sex mire	Test 3 Nominal diameter (mm) and applied torque (Nm):		N/A
8.8	Handles strength	in my me me	N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	Mr. M. W. L	N/A
White W	Number of handles	whet while while while	
de la	Force applied (N)	when when the set	15-
8.9 🔊	Wheels or casters attachment requirements	where where while while	N/A
8.9.2	Pull test	No such parts	N/A
8.10	Carts, stands and similar carriers	The watter water water w	N/A
8.10.1	General	No carts, stands or similar carriers	N/A
8.10.2	Marking and instructions:	set in the set	N/A
8.10.3	Cart, stand or carrier loading test	INLIFE INLIFE WALL WALL	N/A
15 18	Loading force applied (N):	e et et	N/A
8.10.4	Cart, stand or carrier impact test	with white white white	N/A
8.10.5	Mechanical stability	s at at at	N/A
m	Force applied (N):	white white she wi	100
8.10.6	Thermoplastic temperature stability	at at at a	N/A



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

8.11	Mounting means for slide-rail mounted equipment (SRME)		N/A
8.11.1	General	No such parts	_√N/A ⊴
8.11.2	Requirements for slide rails	when we are at	N/A
in my	Instructional Safeguard:	NUTER WALTER WALT WALT	N/A
8.11.3	Mechanical strength test	a shart the	N/A
8.11.3.1	Downward force test, force (N) applied:	offer unite unit unit al	N/A
8.11.3.2	Lateral push force test	e at at at a	N/A
8.11.3.3	Integrity of slide rail end stops	water water war when	N/A
8.11.4	Compliance	at let set set	N/A
8.12	Telescoping or rod antennas	white white white white	N/A
all an	Button/ball diameter (mm):	No such parts	

9	THERMAL BURN INJURY		P.S
9.2	Thermal energy source classifications	NET WALL WAL WAS SH	Р
9.3	Touch temperature limits		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 ~2
9.4	Safeguards against thermal energy sources		5 ⁰⁵ P _5
9.5	Requirements for safeguards		Р
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
9.5.2	Instructional safeguard	.: Instructional safeguard is not required.	N/A
9.6	Requirements for wireless power transmitters	when you we set	N/A
9.6.1	General	No wireless power transmitters	N/A
9.6.2	Specification of the foreign objects	in the state	N/A
9.6.3	Test method and compliance	TE NUTE INTE MALL MAL	N/A

10	RADIATION		JUL B JUL
10.2	Radiation energy source classification	m m	P
10.2.1	General classification	See below	Nº Polo
* 1	Lasers:	i i it it	
whitek	Lamps and lamp systems:	RS1: LED only for indicating use which is considered as low power application.	



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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Troquirement - Test		Tveruict
	Image projectors:	AN AN AN AN	
white w	X-Ray:	white mile white whi	_
de l	Personal music player:	the state of the	
10.3	Safeguards against laser radiation	INTER WATE WATE WATE	N/A
EX WALTER	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	Cat Pro
10.4.1	General requirements	LED indication light: Classed as RS1 (Exempt Group)	P
n se	Instructional safeguard provided for accessible radiation level needs to exceed	anti mat and mit	N/A
- m	Risk group marking and location:	LIE WALLS WALL WAL	N/A
* Set	Information for safe operation and installation	e at at at	N/A
10.4.2	Requirements for enclosures	E WALL WALL WALL W	N/A
J. TEK	UV radiation exposure:	the state of the state	N/A
10.4.3	Instructional safeguard	where where where where	N/A
10.5	Safeguards against X-radiation	at the suff	N/A
10.5.1	Requirements	No X-radiation	N/A
	Instructional safeguard for skilled persons	the offer state out the	
10.5.3	Maximum radiation (pA/kg)	WE WE SE	_
10.6	Safeguards against acoustic energy sources	et stret whet white wh	N/A
10.6.1	General	No such equipment	N/A
10.6.2	Classification	white milet white white	N/A
the de	Acoustic output <i>L</i> _{Aeq,T} , dB(A):	m w t at at	N/A
er mer	Unweighted RMS output voltage (mV):	NETER METER MALT WALL	N/A
at set	Digital output signal (dBFS)	i it at at	_⊘-N/A
10.6.3	Requirements for dose-based systems	let white white white w	N/A
10.6.3.1	General requirements	the state of	N/A
10.6.3.2	Dose-based warning and automatic decrease	MALTE MALE MILE MIL	N/A
10.6.3.3	Exposure-based warning and requirements	at at set of	N/A
h an	30 s integrated exposure level (MEL30):	NUT MUL MAR MAR	N/A
Jer Nie	Warning for MEL ≥ 100 dB(A):	at the set wet	N/A
10.6.4	Measurement methods	the man man	N/A
10.6.5	Protection of persons	at the set states	N/A
and and	Instructional safeguards	me me m n	N/A
10.6.6	Requirements for listening devices (headphones,	10 10 50 5	N/A

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Clause	Requirement – Test	Result – Remark	Verdict

A	earphones, etc.)	241 25	L
10.6.6.1	Corded listening devices with analogue input	uter sufer outer while	N/A
	Listening device input voltage (mV)	m m t	N/A
10.6.6.2	Corded listening devices with digital input	allet white white white	N/A
1. 18	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	the state of	N/A 🧹
10.6.6.3	Cordless listening devices	ret mile inite white w	N/A
. At	Max. acoustic output <i>L</i> _{Aeq,T} , dB(A):	i stat	o⊢ N/A⊘

в	NORMAL OPERATING CONDITION TESTS, AB CONDITION TESTS AND SINGLE FAULT COND		P
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	N P
B.2	Normal operating conditions	we me me me	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
WALTER	Audio Amplifiers and equipment with audio amplifiers:	INTER UNITER MUTER WATE	N/A
B.2.3	Supply voltage and tolerances	See pages 2 rating.	, P
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions		S ^{er} P
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
20.	Instructional safeguard	when the same	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)	P
B.3.6	Reverse battery polarity	No such battery	N/A
B.3.7	Audio amplifier abnormal operating conditions	tet whet while while we	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective	¢ P
B.4	Simulated single fault conditions	mur mur m	Р
B.4.1	General	THE LIFE ALTER MUTER	N°P
B.4.2	Temperature controlling device	NTC used on battery protective board. The test is carried out for three times, no failure. See appended table B.4 for details	STOP P
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	See below.	P



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Clause	Requirement – Test	Result – Remark	Verdict
		Result Remark	Verdice
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards within the EUT	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	N STATE P
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Pro Pro
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
B.4.8	Compliance during and after single fault conditions:	No change to circuits classified in 5.3	P
B.4.9	Battery charging and discharging under single fault conditions	See annex M	Р
с	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV ra	adiation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	The Miller Main Main .	N/A
C.2	UV light conditioning test	i s st st	N/A
C.2.1	Test apparatus:	and and and and and a	N/A
C.2.2	Mounting of test samples	is at at a	N/A
C.2.3	Carbon-arc light-exposure test	white white white white	N/A
C.2.4	Xenon-arc light-exposure test	a at at at	N/A
D	TEST GENERATORS		N/A
D.1 🝼	Impulse test generators	at let let set	N/A
D.2	Antenna interface test generator	st white white where a	N/A
D.3	Electronic pulse generator	+ let let let a	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	o signals	N/A
A	Maximum non-clipped output power (W):	me me me	_
The works	Rated load impedance (Ω):	Tet still mill mill	
t st	Open-circuit output voltage (V):	In In A	
with	Instructional safeguard	at milet intre-while w	×
E.2_&	Audio amplifier normal operating conditions	and the state	N/A
in the	Audio signal source type:	NUE MUE WALL WAL	_



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Clause	Requirement – Test	Result – Remark	Verdict	
- sur	Audio output power (W):	the work that we want the sur	20	
and the second		the set of the		
In In	Audio output voltage (V):	mainter water water		
Service and	Rated load impedance (Ω):	the set set set	—	
	Requirements for temperature measurement	ner whe we we	N/A	
E.3	Audio amplifier abnormal operating conditions	a at at at	N/A	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS		P A	
F.1 🔍 🖄	General	et intre- white white white	-√ ⁰ P	
det .	Language:	English	_	
F.2	Letter symbols and graphical symbols	INTERNATION WATER WATER	<i>√</i> 0° P	
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P S	
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P	
F.3	Equipment markings	When the same and	Р	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	MALE P	
F.3.2	Equipment identification markings	See below for details.	P	
F.3.2.1	Manufacturer identification:	See copy of marking plate	P	
F.3.2.2	Model identification:	See copy of marking plate	P	
F.3.3	Equipment rating markings	See below for details.	√ [™] P	
F.3.3.1	Equipment with direct connection to mains	a stat at at	N/A	
F.3.3.2	Equipment without direct connection to mains	See above.	Р	
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	P.	
F.3.3.4	Rated voltage:	See copy of marking plate.	Р	
F.3.3.5	Rated frequency:	DC supply	Р	
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	ret ster ster street	N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	a at at at	N/A	
F.3.5.2	Switch position identification marking	white white white wh	N/A	



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20.		EN IEC 62368-1	
Clause	Requirement – Test	Result – Remark	Verdict

A	Instructional safeguards for neutral fuse	20 20 X	N/A
F.3.5.4	Replacement battery identification marking:	No such battery.	N/A
F.3.5.5	Neutral conductor terminal	No such parts.	N/A
F.3.5.6	Terminal marking location	NUEL MUE 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	and the second	N/A
F.3.6.1.1	Protective earthing conductor terminal	t still mill shill whi	N/A
F.3.6.1.2	Protective bonding conductor terminals:	the state	N/A
F.3.6.2	Equipment class marking	white white white white	√ [™] N/A
F.3.6.3	Functional earthing terminal marking:	i st at at	N/A
F.3.7	Equipment IP rating marking	This equipment is classified as IPX0.	<u>_</u> 11
F.3.8	External power supply output marking	See copy of marking plate.	P
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Per
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.	ALLER AND
F.4	Instructions	are more many me	Р
er untre	a) Information prior to installation and initial use	See user manual	P
	b) Equipment for use in locations where children not likely to be present	when when when the	N/A
20. 1	c) Instructions for installation and interconnection	white white where she	N/A
INLIEK WIN	d) Equipment intended for use only in restricted access area	minet aniret aniret aniret	N/A
at de	e) Equipment intended to be fastened in place	1 A A A	N/A
-Mr.	f) Instructions for audio equipment terminals	LIE WALT WALL WALL VI	N/A
+ 56+	g) Protective earthing used as a safeguard	s at at at a	م N/A
No.	h) Protective conductor current exceeding ES2 limits	while while while while	N/A
we we	i) Graphic symbols used on equipment	The street on the second	N/A



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0	EN IEC 62368-		
Clause	Requirement – Test	Result – Remark	Verdict
	j) Permanently connected equipment not	and the second second	N/A
INTERN	provided with all-pole mains switch	the set set	INLIE MALTE
	k) Replaceable components or modules providing safeguard function	white white with a	N/A
24	I) Equipment containing insulating liquid	inter white white wh	N/A
et alle	m) Installation instructions for outdoor equipment	at at at 5	N/A
F.5	Instructional safeguards	in more with	N/A
G	COMPONENTS		P
G.1	Switches	mur me m	N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	me me me	N/A
G.1.3	Test method and compliance	ster ster with an	N/A
G.2	Relays	the man in m	N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test	Str. A. A.	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	WATE WATE WATE	N/A
G.2.4	Test method and compliance	At Share	N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No such component	N/A
t miret	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	t ret ret ret	N/A
Jet .	Thermal cut-outs tested as part of the equipment as indicated in c)	when when we	N/A
G.3.1.2	Test method and compliance	White white white a	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	Net when when when	N/A
m	b) Thermal links tested as part of the equipment	white white white white	N/A
G.3.2.2	Test method and compliance	h it it it	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	uni uni un u	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	LIE WALL WAL	N/A
G.3.5.2	Single faults conditions:	let allet muse muse	N/A
G.4	Connectors	and an at	N/A
G.4.1	Spacings	No such component	N/А



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Clause	Requirement – Test	Result – Remark	Verdict
Maria	N N STATISTICS	Fer white white white	Jun Jun
G.4.2	Mains connector configuration	the state of the	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	WHITE MALL WALL	N/A
G.5	Wound components	all all all all and	N/A
G.5.1	Wire insulation in wound components	No such component	N/A
G.5.1.2	Protection against mechanical stress	NEX SLIER MUTER MALT	N/A
G.5.2	Endurance test	M. W. A	N/A
G.5.2.1	General test requirements	A NUEL WITCH WALTE	N/A
G.5.2.2	Heat run test	w i i at	N/A
mr. m	Test time (days per cycle):	MITER MALTER MALTER	mer -
St St	Test temperature (°C):	1 A A	d -
G.5.2.3	Wound components supplied from the mains	LIE MALL MALL WA	N/A
G.5.2.4	No insulation breakdown	s at at a	N/A
G.5.3	Transformers	white white white	N/A
G.5.3.1	Compliance method:	at at at	N/Á
m n	Position:	white white white	N/A
NUTER IN	Method of protection		N/A
G.5.3.2	Insulation		N/A
Set Mile	Protection from displacement of windings:	10-10 St .5	<u> </u>
G.5.3.3	Transformer overload tests	and an in	N/A
G.5.3.3.1	Test conditions	at the state with	N/A
G.5.3.3.2	Winding temperatures	14 24 20	N/A
G.5.3.3.3	Winding temperatures - alternative test method	TEK NIEK MIE	N/A
G.5.3.4	Transformers using FIW	an an an	N/A
G.5.3.4.1	General	stret nures and an	N/A
8 18	FIW wire nominal diameter:		* -
G.5.3.4.2	Transformers with basic insulation only	TEL UNLIE WALT WALT	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	that wind mind	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	the set stat	N/A
G.5.3.4.5	Thermal cycling test and compliance	Mr. Mr. M. M	N/A
G.5.3.4.6	Partial discharge test	THE THE STREE IN	N/A
G.5.3.4.7	Routine test	10, 10, 20,	N/A
G.5.4	Motors	No motors used.	N/A
G.5.4.1	General requirements	M W X	N/A
G.5.4.2	Motor overload test conditions	with street with	N/A



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	EN IEC 62368-	5	
Clause	Requirement – Test	Result – Remark	Verdict
G.5.4.3	Running overload test	12 - William - William - William	N/A
G.5.4.3 G.5.4.4.2	Locked-rotor overload test	at st st	N/A
G.5.4.4.2		white when when	N/A
0545	Test duration (days)	the set of a	
G.5.4.5	Running overload test for DC motors	inter when when we	N/A
G.5.4.5.2	Tested in the unit	at the set of	N/A
G.5.4.5.3	Alternative method	a she she w	N/A
G.5.4.6	Locked-rotor overload test for DC motors	t at at at	N/A
G.5.4.6.2	Tested in the unit	When all an	N/A
muter and	Maximum Temperature	the fire fire	N/A
G.5.4.6.3	Alternative method	au au au a	N/A
G.5.4.7	Motors with capacitors	it for the	N/A
G.5.4.8	Three-phase motors	the sur sur se	N/A
G.5.4.9	Series motors	et jet jiet stret stre	N/A
A	Operating voltage:	when we we	_
G.6	Wire Insulation		N/A
G.6.1	General	Only ES1 existed	N/A
G.6.2	Enamelled winding wire insulation	with any the set	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	No such component	N/A
t st	Type:		_
G.7.2	Cross sectional area (mm ² or AWG):	intre-white white	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	what which which a	N/A
G.7.3.2	Cord strain relief	SH SH SH	N/A
G.7.3.2.1	Requirements	NUTER INLIER MALITY MA	N/A
of the	Strain relief test force (N)		N/A
G.7.3.2.2	Strain relief mechanism failure	iter intre-white white	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	a at at	N/A
G.7.3.2.4	Strain relief and cord anchorage material	and and and and	N/A
G.7.4	Cord Entry	A A A	N/A
G.7.5	Non-detachable cord bend protection	WALLS WALL WALL W	N/A
G.7.5.1	Requirements	A to the	С ⁻ N/А
G.7.5.2	Test method and compliance	WALL WALL WALL WALL	N/A
WNLIE!	Overall diameter or minor overall dimension, <i>D</i> (mm)	et miret miret while	- in
, dr	Radius of curvature after test (mm):		8

1 VN/VL



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29	EN IEC 62368-	the ante and all a	24. A.
Clause	Requirement – Test	Result – Remark	Verdict
0.7.0		and which which when	
G.7.6	Supply wiring space	A & A & S	N/A
G.7.6.1	General requirements	white white white white	N/A
G.7.6.2	Stranded wire	the state of the	N/A
G.7.6.2.1	Requirements	prite sprit whit when	N/A
G.7.6.2.2	Test with 8 mm strand	the state	N/A
G.8	Varistors	L'E MULT MULT MUT W	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguards against fire	white white whe with	N/A
G.8.2.1	General	at at set 50	N/A
G.8.2.2	Varistor overload test	white white white white	N/A
G.8.2.3	Temporary overvoltage test	at not not when	N/A
G.9	Integrated circuit (IC) current limiters	up mu mu m	N/A
G.9.1	Requirements	No such component	N/A
	IC limiter output current (max. 5A):	m. m. m. i.	_
UNLIFE WI	Manufacturers' defined drift :	ster street with and	
G.9.2	Test Program	with the second second	N/A
G.9.3	Compliance	set and the would	N/A
G.10	Resistors		N/A
G.10.1	General	No such component	N/A
G.10.2	Conditioning	i i it it	N/A
G.10.3	Resistor test	and the south white white	N/A
G.10.4	Voltage surge test	1 1 1 1 K	N/A
G.10.5	Impulse test	white white white white	N/A
G.10.6	Overload test	a at at at	N/A
G.11	Capacitors and RC units	NUTER WALTE WALL WALT	N/A
G.11.1	General requirements	No such component	N/A
G.11.2	Conditioning of capacitors and RC units	is which which will will be	N/A
G.11.3	Rules for selecting capacitors	h at at at a	N/A
G.12	Optocouplers		N/A
INLIER WILL	Optocouplers comply with IEC 60747-5-5 with specifics	No such component	N/A
Jet Je	Type test voltage V _{ini,a} :	at at at at	
24	Routine test voltage, V _{ini, b}	LES WALL WALL WALL	_
G.13	Printed boards	at at at at	N/A
G.13.1	General requirements	Only need to comply with functional insulation, see only B.4.4.	N/A



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Mrs	M M The state of the state	TEN MUTE WALT WALT	mer mer	
G.13.2	Uncoated printed boards	the state	N/A	
G.13.3 📣	Coated printed boards	white white white	N/A	
G.13.4	Insulation between conductors on the same inner surface	THE THE NUTER OF	N/A	
G.13.5	Insulation between conductors on different surfaces	at all the set	N/A	
20	Distance through insulation:	in more more me	N/A	
NUTER	Number of insulation layers (pcs)	t at at at	<u></u>	
G.13.6	Tests on coated printed boards	me me m	N/A	
G.13.6.1	Sample preparation and preliminary inspection	ift ift with	N/A	
G.13.6.2	Test method and compliance	me me me	N/A	
G.14	Coating on components terminals	THE STREE STIFF MI	N/A	
G.14.1	Requirements:	the the the	N/A	
G.15	Pressurized liquid filled components	JEX WIFE MUTER MALTE	N/A	
G.15.1	Requirements	No such component	N/A	
G.15.2	Test methods and compliance	NUTER AND AND MALL	√N/A	
G.15.2.1	Hydrostatic pressure test		N/A	
G.15.2.2	Creep resistance test	We want w	N/A	
G.15.2.3	Tubing and fittings compatibility test		ماني ماني الم	
G.15.2.4	Vibration test	are write write write	N/A	
G.15.2.5	Thermal cycling test	L A At At	N/A	
G.15.2.6	Force test	where where where	N/A	
G.15.3	Compliance	at the set	N/A	
G.16	IC including capacitor discharge function (ICX)	Mer me me	N/A	
G.16.1 💉	Condition for fault tested is not required	No such component	N/A	
1	ICX with associated circuitry tested in equipment	we are an	N/A	
er untret	ICX tested separately	et the tree with	N/A	
G.16.2	Tests of the set of the set	m m m	N/A	
water of	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	WALTER WALTER WALTER	and -	
INLIER WIN	Mains voltage that impulses to be superimposed on	miret whitet whitet w	NUE -	
TEX WALTE	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	and while while and	,et _	
G.16.3	Capacitor discharge test:	Sur Su Su	N/A	
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A	
H.1_&	General	t at at	N/A	
H.2	Method A	- ALTER ALTER ANTE	N/A	



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EN IEC 62368-1			Am. In.
Clause	Requirement – Test	Result – Remark	Verdict

H.3	Method B	30 30 4	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):	mer which whe when	_
H.3.1.2	Voltage (V):	at all the states	_
H.3.1.3	Cadence; time (s) and voltage (V):	we we we we	
H.3.1.4	Single fault current (mA):	t the state strate one	
H.3.2	Tripping device and monitoring voltage	me m m	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	MALTER WALTER MALTE WALTE	N/A
H.3.2.2	Tripping device	at the the state	N/A
H.3.2.3	Monitoring voltage (V):	in me me	N/A
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED	N/A
J.1	General	t at at at at	N/A
24 1	Winding wire insulation:	water and water	
NUTER IN	Solid round winding wire, diameter (mm) :	at the star	N/A
et di	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²):		N/A
J.2/J.3	Tests and Manufacturing	the apply and and a	-24
к	SAFETY INTERLOCKS		N/A
K.1	General requirements	Mur mur mir m.	N/A
NUTER N	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode	mile while whe whe	N/A
K.4 🧹	Interlock safeguard override	at not not with whet	N/A
K.5	Fail-safe	or more more me m	N/A
K.5.1	Under single fault condition	t the set with my	N/A
K.6	Mechanically operated safety interlocks	me me me	N/A
K.6.1	Endurance requirement	ret unt wiret wire	N/A
K.6.2	Test method and compliance	nu m m m	N/A
К.7 _" "	Interlock circuit isolation	iter lifer with white a	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements	at the state with the	N/A
.at	In circuit connected to mains, separation distance for contact gaps (mm)	which which we want	N/A



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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
where the street is	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A	
	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):	Intife white white white	N/A	
K.7.3	Endurance test	at let let stat	N/A	
K.7.4	Electric strength test	the me me a	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements	mut me me	N/A	
L.2	Permanently connected equipment	Tet stet with out	N/A	
L.3	Parts that remain energized	me me me	N/A	
Ľ.4 🔊	Single-phase equipment	Tet the street street spire	N/A	
L.5	Three-phase equipment	le m m	N/A	
L.6	Switches as disconnect devices	Jet stret mile white wi	N/A	
L.7 🦽	Plugs as disconnect devices	WILL STATE	N/A	
L.8	Multiple power sources	ALTER MITE WALL WAL	_Ä/A	
dt .	Instructional safeguard:		N/A	
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		N/A	
M.1 <	General requirements		N/A	
M.2	Safety of batteries and their cells		N/A	
M.2.1	Batteries and their cells comply with relevant IEC standards:	ret intrest instrest innitest and	N/A	
M.3	Protection circuits for batteries provided within the equipment	t the street wither with	N/A	
M.3.1	Requirements	all the sur the	N/A	
M.3.2	Test method	The street out of out of	N/A	
1. 18	Overcharging of a rechargeable battery	the set of	N/A	
me	Excessive discharging	tex atter white white wh	N/A	
MALTER	Unintentional charging of a non-rechargeable battery	No such battery used	N/A	
4	Reverse charging of a rechargeable battery	Mur Mir M.	N/A	
M.3.3	Compliance	Tex white white white	N/A	
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		N/A	
M.4.1	General	ber mer mer and	N/A	
M.4.2	Charging safeguards	at the state state of	N/A	
M.4.2.1	Requirements	Mr. M. M. W.	N/A	

N/A

02.

Compliance.....:

M.4.2.2



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Clause	Requirement – Test	Result – Remark	Verdict
M.4.3	Fire enclosure	which which which which	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	WALTER WALTER WALTER WALT	N/A
M.4.4.2	Preparation and procedure for the drop test	Tet ster street miller	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	at not not sold	N/A
M.4.4.4	Check of the charge/discharge function	and and and a	N/A
M.4.4.5	Charge / discharge cycle test	t at all all all	N/A
M.4.4.6	Compliance	me me me me	N/A
M.5	Risk of burn due to short-circuit during carrying	g at at at at	N/A
M.5.1	Requirement	m. m. m. m.	N/A
M.5.2	Test method and compliance	ret wet wet with	N/A
M.6	Let ret ret with with white white	h white he had	N/A
M.6.1	External and internal faults	et with mile while w	N/A
M.6.2	Compliance	Mill Shi sh	N/A
M.7 🔹	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	No such battery used	N/A
1 1	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance	all all all all and a	N/A
6 1	Minimum air flow rate, Q (m ³ /h)	Shi Shi At	N/A
M.7.3	Ventilation tests	A SUTER MUTER WALL WA	N/A
M.7.3.1	General	and at the	N/A
M.7.3.2	Ventilation test – alternative 1	NUTER WALT WALT WALT	N/A
1 6	Hydrogen gas concentration (%)	i it at at	N/A
M.7.3.3	Ventilation test – alternative 2	NUTER NATE WALL WALL	N/A
et set	Obtained hydrogen generation rate:	1 A A At	<n a<="" td=""></n>
M.7.3.4	Ventilation test – alternative 3	it whit whit whit w	N/A
Set	Hydrogen gas concentration (%):	at at set of	N/A
M.7.4	Marking	white and when when	N/A
M.8	Protection against internal ignition from extern with aqueous electrolyte	al spark sources of batteries	N/A
M.8.1	General	a do to tot	N/A
M.8.2	Test method	LIE MALL WALL WALL	N/A
M.8.2.1	General	t at at at	N/A
M.8.2.2	Estimation of hypothetical volume V _Z (m ³ /s):	ment ment ment m	
M.8.2.3	Correction factors:	the state of	<u></u>



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Clause	Requirement – Test	Result – Remark	Verdict
M.8.2.4	Coloulation of distance d (mm)	the write write write	in in
	Calculation of distance <i>d</i> (mm):	the set set	
M.9 📣	Preventing electrolyte spillage	would work work out	N/A
M.9.1	Protection from electrolyte spillage	at at set of	N/A
M.9.2	Tray for preventing electrolyte spillage	intrant white white	N/A
M.10	Instructions to prevent reasonably foreseeable misuse	set miret wiret whiret	N/A
- 14-	Instructional safeguard	the state	N/A
Non	ELECTROCHEMICAL POTENTIALS	et outer and the and the	N/A
	Material(s) used:	s at at	1 5
0 10	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A
15 5	Value of <i>X</i> (mm):	s at at a	* 50-
Р 🗥	SAFEGUARDS AGAINST CONDUCTIVE OBJEC	TS of a	P ^S
P.1 🝼	General	See below	P
P.2	Safeguards against entry or consequences of o	entry of a foreign object	^{sv} P
P.2.1	General	et let ster	P
P.2.2	Safeguards against entry of a foreign object	when any and an	Р
NUTER ON	Location and Dimensions (mm)	No opening.	In In
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements	the work which which	N/A
MALTER	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	et unifet unifet unifet	N/A
WILLIEK W	Transportable equipment with metalized plastic parts:	Tet stret milet un	N/A
P.2.3.2	Consequence of entry test:	all in the	N/A
P.3 🔊	Safeguards against spillage of internal liquids	ALTER MUTER WALTE WALT	N/A
P.3.1 _	General	No such liquids.	N/A
P.3.2	Determination of spillage consequences	Ter intro white white	N/A
P.3.3	Spillage safeguards	a at at	N/A
P.3.4	Compliance	white white white w	N/A
P.4	Metallized coatings and adhesives securing pa	irts	N/A
P.4.1	General	No such construction.	N/A
P.4.2	Tests	a to the fil	N/A
April 1	Conditioning, T _C (°C):	and white white white	200 -20
5 50	Duration (weeks):	a at at at	<u></u>

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-24.	EN IEC 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict

Q A	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	See appended table Annex Q.1	N/A
Q.1.1	Requirements	THE STAR STAR MITER	N/A
.L. 4	a) Inherently limited output	in the superior	N/A
NIN CO	b) Impedance limited output	Tex whet whet white wh	N/A
. st	c) Regulating network limited output	the the	N/A
MAL	d) Overcurrent protective device limited output	t allet mill while while	N/A
A	e) IC current limiter complying with G.9	State of the	N/A
Q.1.2	Test method and compliance:	See below	N/A
inet whi	Current rating of overcurrent protective device (A)	See appended table Annex Q.1	N/A
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A
	Maximum output current (A)	MUT. MU. M. M.	N/A
NUTE	Current limiting method:	the state with all the	NI-LIV
R	LIMITED SHORT CIRCUIT TEST	when when when we	N/A
R.1	General	No such consideration.	N/A
R.2	Test setup		N/A
in mer	Overcurrent protective device for test:	The still with white	r. 41
R.3 🦽	Test method	the state of the	N/A
m	Cord/cable used for test;	the multi south work work	m
R.4_	Compliance	a at at at	N/A
s	TESTS FOR RESISTANCE TO HEAT AND FIRE	intite watthe water water	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		
8 1	Samples, material:	the state	<i>d</i> – .
Mar	Wall thickness (mm):	ist intre-water water wa	<u>an</u>
. Set	Conditioning (°C)	the states	5 <u>_</u> 1
with .	Test flame according to IEC 60695-11-5 with conditions as set out	white white white white	N/A
Wer a	- Material not consumed completely	MUTER INTER WALT WALT	N/A
the s	- Material extinguishes within 30s	1 A At At	_
in me	- No burning of layer or wrapping tissue	LIE WALT WALL WALL OF	N/A
S.2 🦪	Flammability test for fire enclosure and fire barrier integrity		
- ann	Samples, material:	White white white wh	- 2m
1. Cart	Wall thickness (mm):	s a at a	<u></u>



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Clause	Requirement – Test	Result – Remark	Verdict	

	Conditioning (°C)	A A A	
S.3	Flammability test for the bottom of a fire enclose	sure of the only of	N/A
S.3.1	Mounting of samples	in the state	N/A
S.3.2 🖑	Test method and compliance	NUTER MULTE WALL WALL	N/A
	Mounting of samples:	a at at at	Set -
m	Wall thickness (mm):	re watt wat wat w	-14
S.4	Flammability classification of materials	t at the set of	N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	which which which which	N/A
A	Samples, material:	Mr. M. M. At	
in m	Wall thickness (mm):	LIEL MILE WITE WAIT V	ru _1
* 1	Conditioning (°C):	i i ste ste	d -
T when	MECHANICAL STRENGTH TESTS	Set unite while while wh	P
T.1_&	General	a at at a	- R
Т.2	Steady force test, 10 N:	white white white white	N/A
Т.3	Steady force test, 30 N:	at the set	N/A
Т.4 🚿	Steady force test, 100 N:	(See appended table T.4)	Р
Т.5	Steady force test, 250 N:		N/A
Т.6	Enclosure impact test	or mer mer mer n	N/A
	Fall test	t the wet with an	N/A
	Swing test	m. m. m.	N/A
Т.7	Drop test:	(See appended table T.7)	Jun P
T.8	Stress relief test:	(See appended table T.8)	P
T.9 🖋	Glass Impact Test:	No such glass	N/A
T.10 🧹	Glass fragmentation test		
m	Number of particles counted:	No such glass	N/A
T.11	Test for telescoping or rod antennas		
Set.	Torque value (Nm):	No such antennas provided within the equipment.	N/A
Ŭ Š	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
Ù.1 🔊	General	LIER MITE MAIL WALL V	N/A
* NALIE	Instructional safeguard:	No CRT provided within the equipment.	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen	The street with working	N/A



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

V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment	white muse white white	_Ä/A
V.1.1	General	where the state	N/A
V.1.2	Surfaces and openings tested with jointed test probes	MILL WALL WALL WALL	N/A
V.1.3	Openings tested with straight unjointed test probes	Tex with with white we	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	the the	N/A
V.1.5	Slot openings tested with wedge probe	t aller mile wait way	N/A
V.1.6	Terminals tested with rigid test wire	A At At	N/A
V.2	Accessible part criterion	NUTER INTER WALTE WALT	√ [™] N/A
Xat	ALTERNATIVE METHOD FOR DETERMINING CL INSULATION IN CIRCUITS CONNECTED TO AN 420 V PEAK (300 V RMS)		N/A
A NUTE	Clearance:	at let set stat wi	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	Indoor equipment	N/A
Y.2	Resistance to UV radiation	when when we we	N/A
Y.3	Resistance to corrosion	set outer white	_∭ ∕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	The watter watter watter of	N/A
Y.3.2	Test apparatus	t tet the with million	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	me me m	N/A
Y.3.4	Test procedure	Tet stret stret white	N/A
Y.3.5	Compliance	when the she we we	N/A
Y.4 🔊	Gaskets	wet whet muser white a	N/A
Y.4.1	General	n m se t	N/A
Y.4.2	Gasket tests	ist outer unite water wa	N/A
Y.4.3	Tensile strength and elongation tests	in the of the	N/A
when .	Alternative test methods:	White white white white	N/A
Y.4.4	Compression test	a stat set	N/A
Ŷ.4.5	Oil resistance	INTE WITE WATE WATE	N/A
Y.4.6	Securing means	a at at at	N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General	the state of a	N/A
Y.5.2	Protection from moisture	white white white white	N/A
SET	Relevant tests of IEC 60529 or Y.5.3	at at at at	N/A



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
stre	Mr. Mr. St. A.	et all all only white	we way
Y.5.3	Water spray test	with the start	N/A
Y.5.4	Protection from plants and vermin	TEL MIEL MUTER MUTE	N/A
Y.5.5	Protection from excessive dust	when when the state	N/A
Y.5.5.1	General	white white white white w	N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment	ret maret white white white	N/A
Y.6	Mechanical strength of enclosures	. I A A A	N/A
Y.6.1	General	untre while while whi	N/A
Y.6.2	Impact test		N/A



G

m	EN IEC 62368-1	The mark while while we	2 4
Clause	Requirement – Test	Result – Remark	Verdic
- sur-		- Andrewall and and	-2m-
(Audio	ATTACHMENT TO TEST RI IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NA p/video, information and communication technology eq	ATIONAL DIFFERENCES	nents)
Difference	es according to EN IEC 62368-1:2020+A1	1:2020	
Attachme	nt Form No : EU_GD_IEC62368_1E	et milet milet water water	in m
Attachme	nt Originator: UL(Demko)		
	tachment		
100 N	the second water water and the		. IN THE
	© 2021 IEC System for Conformity Testing and Ce Geneva, Switzerland. All rights reserved.	entification of Electrical Equiph	nent
and and	CENELEC COMMON MODIFICATIONS (EN)	itet mitet while while w	Р
	Clause numbers in the cells that are shaded light granted light (1EC 62368-1:2020+A11:2020). All other clause numbers those in the paragraph below, refers to IEC 62368-1 Clauses, subclauses, notes, tables, figures and ann those in IEC 62368-1:2018 are prefixed "Z".	pers in that column, except for 2018.	P VIII
it with	Add the following annexes:	and and the sublic of	Р
	Annex ZA (normative)Normative references to interna corresponding European publications	ational publications with their	Set .
	Annex ZB (normative)Special national conditions		-24
	Annex ZC (informative)A-deviations	ignotions for flovible cords	1 Mart
1	Annex ZD (informative)IEC and CENELEC code desi Modification to Clause 3.		N//
3.3.19	Sound exposure	the the the the	N/A
de la	Replace 3.3.19 of IEC 62368-1 with the following de	finitions:	. At
3.3.19.1	momentary exposure level, MEL	Not such equipment	N/A
	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.		ex wh
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.		t
3.3.19.3	sound exposure, E	NUTER INTER WALL WALL	N/A
	A-weighted sound pressure (<i>p</i>) squared and		Ar

Note 1 to entry: The SI unit is Pa² s. Т

$$E = \int_{0}^{T} p(t)^2 \,\mathrm{d}t$$

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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
3.3.19.4	sound exposure level, SEL logarithmic measure of sound exposure relative to a reference value, <i>E</i> ₀ , typically the 1 kHz threshold of hearing in humans.	MALTER WALTER WALTER	N/A	
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB. $SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	et whitet whitet white	white white	
NUTER IN	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	at set set	LIEK MUTER	
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	AL WALLEY WALLEY WAL	N/A	
sur s	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.	white white where a	NT NO	
2	Modification to Clause 10		N/A	
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:	N/A		
10.6.1.1	Introduction	Not such equipment	N/A	
Whitek w	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person , that:	white white white	MALE MALE	
	 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 around the ears; and has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a 	A MAILER WALTER WALTER	white whites	
	subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.	the super super super	White white	
	Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.	THEY WITH MUTER	INLIEK WALTER	



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
sur		in antic water water	white white	
	NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.	a de det	Jet Jet	
	NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	antifer antifer antifer	anter anter yo	
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to:	et wontret wontret wontr	white white	
	– professional equipment;	and the	at set	
	NOTE 3Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	Antifer Mainer Mainer W	Tex More way	
	- hearing aid equipment and other devices for assistive listening;	t minet aniret annire	MULT MALTE	
	 the following type of analogue personal music players: long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; 	AND	antifet antifet a	
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	ite white white white	et any ret and	
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	white white white	white white	
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	and white white	Tet av tret av	
et white	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	at white white white	at while while	
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	whet milet milet	N/A	
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	t tet stat word	NUTER AND	

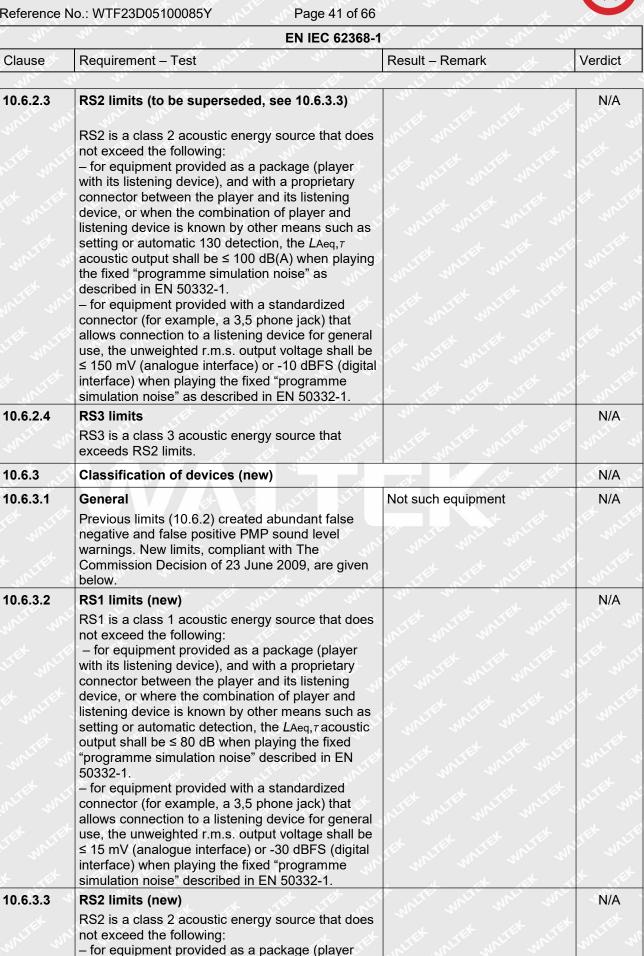


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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
10.6.2	Classification of devices without the capacity to estimate sound dose			
10.6.2.1	Classification of devices without the capacity toGeneralThis standard is transitioning from 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 $LAeq, \tau$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song.NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $LAeq, \tau$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only	Not such equipment	N/A	
WALTER	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.	watter water watter	INTER MUTE	
10.6.2.2	 RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i>Aeq,<i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. The RS1 limits will be updated for all devices as 	and the and th		



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Clause	Requirement – Test	Result – Remark	Verdict	
Clause		Nesult – Nelliaik	verdict	
Son and a son a so	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 EN 50332-1.	ANTER ANTER ANTER ANTER	and	
10.6.4	Requirements for maximum sound exposure	it's white white white	N/A	
10.6.4.1	All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with			
10.6.4.2	EN 50332-1 or EN 50332-2 as applicable. Protection of persons	At Cast of	N/A	
	 Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except 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. 		antire antirex	
	The elements of the instructional safeguard shall be as follows:	whitet whitet whitet	Intre white	
	6044 (2011-01) – element 2: "High sound pressure" or equivalent wording – element 3: "Hearing damage risk" or equivalent wording – element 4: "Do not listen at high volume levels	ret white white white	A WALES WA	
	for long periods." or equivalent wording	when when when	20. 0	



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2hr	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
antirek anti EK antirek antirek antirek antirek antirek antirek	 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. 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. NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. 		NUTER MALIER	
10.6.5	A skilled person shall not be unintentionally exposed to RS3.	MALTER MALTER WALTER W	N/A	
10.6.5.1	Requirements for dose-based systems General requirements	Not such equipment	N/A	
	 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. 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 	and and and an area an area and an area an	ANTER ANTER	
10652	races, etc.	t at at at	N/A	
10.6.5.2	Dose-based warning and requirementsWhen a dose of 100 % CSD is reached, and atleast at every 100 % further increase of CSD, thedevice shall warn the user and require an	south with with		



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
whitek whi	acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	antiek whitek whitek w	NITES SUNITES	
10.6.5.3	Exposure-based requirements	at 12 15 15	N/A	
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short- term sound level a user can listen at.	White white white	NATE MALTER	
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	arek whatek whitek whitek	et sur tret sur surtet surte	
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	white white white	Tet whitet white	
were w	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.	THE STREET ONLY OF	the Multin	
10.6.6	Requirements for listening devices (headphone		N/A	
10.6.6.1	6.6.1 Corded listening devices with analogue input With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built- in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.			
10.6.6.2	Corded listening devices with digital input	i a stat	N/A	
MALTER N	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume	white white white	NOT WALTER	



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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
Mar	when we we all the state	et with our white	when when
whitek 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.	antifet antifet antifet an	NATES NATES
10.6.6.3	Cordless listening devices		N/A
whitek whitek untrek whitek whitek	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 \leq 100 dB with an input signal of -10 dBFS.	and the anise and the	wine wineret
10.6.6.4	Measurement method	INTE MATE MAL	N/A
NUTEX IN	Measurements shall be made in accordance with EN 50332-2 as applicable.	the state	UTER NITER W
3	Modification to the whole document		Р



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	EN IEC 62368-1					.		
Clause	Re	equirement -	- Test	- mr.	F	tesult – Rema	ark	Verdict
Whitek	De		"country" note	s in the refe	rence docume	ent according	to the following	P
	.et-	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1th
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	in the
	+ -5 ¹	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	et uni
	our 12	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	WINLIE
	55 EX	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	WALLEK.
	et s	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	LIEK
	in.	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	set whit
	INTE	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	whitek
	54	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	NUTER
	×	Y.4.5	Note					Set as
<u> </u>	Mo	odification	to Clause 1			<u> </u>	N . W . W	P
MALIT	NC ele		ring note: e of certain substa ent is restricted w			whitet whit	THE WALTE	P
~~~~~		odification	to 4.Z1					Р



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EN IEC 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	a at at at	N/A	
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 externalcircuit 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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EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
sur	W W The state of the state	and the method with	Men Min
10.5.1	<ul> <li>Add the following after the first paragraph:</li> <li>For RS 1 compliance is checked by measurement under the following conditions:</li> <li>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</li> </ul>	antifet antifet antifet and	N/A
	give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	whitek whitek whitek	southe souther
	adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	And white white white	et yn ret yn
	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.	white white white	whites whites
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	fer while while while	et was
.5°	13 May 1996.	- it it it	
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.	unifet whitek whitek of	N/A
10	Modification to Bibliography		P



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2hr	10 V V	EN IEC 62368-1	it white white where we	$h_{\mu} = -2m_{\mu}$
Clause	Requirement – Test		Result – Remark	Verdict
sur.	m. n. r.	1 1 1 5 S	at a the main which which	- an
	Add the following not	tes for the standards indicated		- P-
	IEC 60130-9	NOTE Harmonized as EN 601	30-9.	ann's
	IEC 60269-2	NOTE Harmonized as HD 602	69-2.	1
	IEC 60309-1	NOTE Harmonized as EN 603	09-1.	SUL .
	IEC 60364	NOTE some parts harmonized		21 - 21
	IEC 60601-2-4	NOTE Harmonized as EN 606		at .
	IEC 60664-5	NOTE Harmonized as EN 606		in m
	IEC 61032:1997	NOTE Harmonized as EN 610		
	IEC 61508-1	NOTE Harmonized as EN 615		0- 50
	IEC 61558-2-1 IEC 61558-2-4	NOTE Harmonized as EN 615 NOTE Harmonized as EN 615		m
	IEC 61558-2-4	NOTE Harmonized as EN 615		1
	IEC 61643-1	NOTE Harmonized as EN 616		NOT I
	IEC 61643-21	NOTE Harmonized as EN 616		-201 - 2
	IEC 61643-311	NOTE Harmonized as EN 616		15
	IEC 61643-321	NOTE Harmonized as EN 616		and an
	IEC 61643-331	NOTE Harmonized as EN 616	43-331.	
to star	-			1 S
11	ADDITION OF ANNE	EXES		P
ZB	ANNEX ZB, SPECIA	L NATIONAL CONDITIONS (	EN)	P
4.1.15	Denmark, Finland, I	Norway and Sweden	Not directly connected to the mains	N/A
ALTEX WALTER	added: <b>Class I pluggable ed</b> connection to other ed if safety relies on corr if surge suppressors network terminals an marking stating that the connected to an earth The marking text in the be as follows: In <b>Denmark</b> : "Apparate stikkontakt med jord stikproppens jord." In <b>Finland</b> : "Laite on varustettuun pistorass In <b>Norway</b> : "Apparate stikkontakt"			S ALL S
4.7.3	United Kingdom	et allet with white	min white white white	N/A
	To the end of the sub added:	oclause the following is	Tet wontet wontet wontet	NJEK W
VINLIEK TEK	complying with BS 13	formed using a socket-outlet 363, and the plug part shall be /ant clauses of BS 1363. Also his annex	whitet whitet whitet whi	SEX WALT

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	EN IEC 62368-1	in the all all	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 19
Clause	Requirement – Test	Result – Remark	Verdict
an a		antiti while white a	1 - 20 -
5.2.2.2	Denmark After the 2nd paragraph add the following:	No high touch current measured.	N/A
LIEK WALTE	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	tiret whitet whitet white	MATERN
5.4.11.1	Finland and Sweden	No such external circuits.	N/A
and Annex G	To the end of the subclause the following is added:	white white white	11 11 111 112 112
	For separation of the telecommunication network from earth the following is applicable:	white white white wh	et unter
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Multe while while while	Surrey .
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	to white white white	11 - 11 11 - 11
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	while while while w	Set white
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	and soll she watter	winner winner
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),	whitet whitet whitet white	W LICK W
	and	at that stat with	INL'EX MIL
	<ul> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	white white white	TE WILLEY
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	ALTER MALTER MALTER MALTE	X NUTEX
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	tet whitet white white	NIT A NILIT
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3	white white white w	iet whitek



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20	EN IEC 62368-	in the way of	the de
Clause	Requirement – Test	Result – Remark	Verdic
silve	when we we all it is	the with other water	me m
	testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	the state with	NUTEX MALTER
	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>	WELFER WALFER WALFER WAL	ret a lifet
EX WALLEY	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.	Tet waitet waitet waite	white wh
5.5.2.1	Norway	the set set	N/A
	After the 3rd paragraph the following is added:	white sure when	et tet
1112	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	unifer unifer unlife un	et ret
5.5.6	Finland, Norway and Sweden	No such resistors.	N/A
	To the end of the subclause the following is added:	at stat with with	while whi
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	whitek whitek whitek	MITEK WALTE
5.6.1	Denmark	No such equipment.	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>	Ster white white white	vanifet vanif
and an	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	WILL'ER WALLE WALLE W	NEL MAL
5.6.4.2.1	<ul> <li>Ireland and United Kingdom</li> <li>After the indent for pluggable equipment type A, the following is added: <ul> <li>the protective current rating is taken to be 13</li> <li>A, this being the largest rating of fuse used in the mains plug.</li> </ul> </li> </ul>	Fort whitek whitek white	N/A
5.6.4.2.1	France	t 1t 50 50	N/A
neret wn	After the indent for <b>pluggable equipment type A</b> , the following is added: – in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	white white white	at ret
5.6.5.1	To the second paragraph the following is added:	are while while white	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	et whitet whitet whitet	white whi



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	EN IEC 62368-7	a the the th	
Clause	Requirement – Test	Result – Remark	Verdict
m	W. W. The state of the state	and the work with	me m
5.6.8	<ul> <li>Norway</li> <li>To the end of the subclause the following is added:</li> <li>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.</li> </ul>	and the watter and the	N/A
5.7.6	Denmark	m. m. m.	N/A
	To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	whitek whitek whitek	MALIE WALTE
5.7.6.2	Denmark	at the star is	N/A
et wonderet	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	A white white white	whitek white
5.7.7.1	Norway and Sweden	Not such system.	N/A
	<ul> <li>To the end of the subclause the following is added:</li> <li>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.</li> <li>Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.</li> <li>It is however accepted to provide the insulation</li> </ul>	antifet white white	WALTER MALTER
	external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	sunt whitet whitet wh	Tet water w
	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:	at white white white	white white
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –	white white white	stret muret.
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television	set waiset waiset wai	IEK VIN JEK VI
	distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	et whitet whitet white	white white
	NOTE In Norway, due to regulation for CATV-installations, and	with white white	ne m

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-	EN IEC 62368-1	is the she with a	
Clause	Requirement – Test	Result – Remark	Verdict
de	with the second se	a the with which which	m
NUTER W	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.	ALTER MUTER MALTER MALT	A WALTER
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	where where where where	WALLEY W
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV	et yourset yourset yourset ou	NO EX WAL
	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."	water water water water	E WALTER
	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 medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät	A LICK WALLOW WALLOW WALLOW	unit un un tet un tet unit
	galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	JUNE WAT WAT AN	at the
8.5.4.2.3	United Kingdom	No external circuits.	S [™] N/A
	Add the following after the 2 nd dash bullet in 3 rd paragraph:	at white white	WALTER W
	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	te out with would a	NIEK WIT
B.3.1 and	Ireland and United Kingdom	Not directly connected to the	N/A
B.4	The following is applicable:	mains	
Whitek whitek	To protect against excessive currents and short- circuits in the primary circuit of <b>direct plug-in</b> <b>equipment</b> , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the <b>direct plug-in</b> <b>equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	whitek whitek whitek whitek	antifation antifation Electrony
G.4.2	Denmark	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	UNLIEK S
	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.	Tet whitet whitet whitet	n ^{ster} wn
	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	ANNUT WALLE WALLS AND	x whitek



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	EN IEC 62368-1	Lite white white white a	
Clause	Requirement – Test	Result – Remark	Verdict
Whitek w	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	and white white white and	X ountrex
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	and whitek whitek whitek	avertek av
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	whitek whitek whitek white	IE WALTER
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	and white white white	W TEX W
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1- 5a or DK 1-7a	whitek whitek whitek wh	es en vints
	Justification: Heavy Current Regulations, Section 6c	at an and a street white	WALLEY V
G.4.2	United Kingdom	Not directly connected to the	N/A
	To the end of the subclause the following is added:	mains	NIT WY
MALTER M	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	and the and and and and a	se sonirek sonirek so irek so
G.7.1	United Kingdom	at let tet states	N/A
	To the first paragraph the following is added:	when whe when we	
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	MALIER MALER MALER MALER	e vuntrei vntrei n Tex vu
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	et whitet whitet whitet wh	JAK WALT

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	EN IEC 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
G.7.1	Ireland         To the first paragraph the following is added:         Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	and and and and and and and	N/A	
G.7.2	Ireland and United KingdomTo the first paragraph the following is added:A power supply cord with a conductor of 1,25 mm²is allowed for equipment which is rated over 10 Aand up to and including 13 A.	WALTER WALTER WALTER WALTER	N/A N/A	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)			
10.5.2	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:         Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	No CRT within the equipment.	N/A	



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

Type of flexible cord	Code de	signations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		ξ¢.
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-I



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

5.2	TABLE: Classification of electrical energy sources						
Supply Voltage	Location (e.g.	Test conditions		Param	eters		ES Class
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
AA	The EUT is	Normal	<60Vdc	m 20.	SS	d- 1	ES1
	designed to be supplied by	Abnormal		STER TOLIE	mui- m	the and	m
	Internal Li-ion battery cells	Single fault –	m_ m	s th	5°5- 55	et - ret	MUTER

Supplementary information:

Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
 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	voltage measu	rement	19 A	N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
1-21 Mart	1. 1. 1. 1.	5 A - 50°	10 - A	1.10 <u>-</u>	mutter white white wh
		1 ⁶⁶ - 5 ⁶	with - ser		e st st st
Supplemer	ntary information:				

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method			ISO 306 / B50	E. WALTER	
Object/ Part	No./Material	Manufacturer/trademark	Thickness (mm)	T soften	ing (°C)
r. mer	me m. a	1 - the state	stift miles white	where we	r m
Supplementa	ary information:				
. T. 3	n. m. m.	the state of the s	J 5 5	and and	de.

5.4.1.10.3	.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed im	pression diame	eter (mm)	:	≤ 2 m	m	.t		
					ression eter (mm)			
I when	mer mer	M		at .	LIEN NETER AN	Ster with	The mar	
Supplementary information:								
with a	me m	Shi at	to de	د. ۲	It will white	WILL	m	

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance

N/A



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m				EN IEC	62368-1					
Clause	lause Requirement – Test					Result – Remark				
where a	the the second				+ <u>_</u>		<u></u>	r mr	m	
	(cl) and creepage r) 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)	
-	t it it	5ª	S.S.	<u></u>	m m		-70		, <del>, -</del> ,	
Supplemen	ntary information:									
	frequency above 30 te Electric Strength vo			when 5.4	.2.4 applie	d)	TEX	Jet	iet antiet	

5.4.4.2	TABLE: Minimum distance through insulation						
Distance th (DTI) at/of	rough insulation	Peak voltage (V)	Insulation*	Required DTI (mm)	Measured DTI (mm)		
the me	m. m.		Jet Jiet m	in marker	n n n		
Supplemen	tary information:						
*See also s	ub-clause 5.4.4.9	s at the	LIEK MITER WALTE	white where	me m		

5.4.4.9	TABLE: Solid in	nsulation at	frequencies	>30 kHz	STER INT	en antifer a	N/A
Insulation	material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
		7	State State	152 01		1	- *
Supplemer	ntary information:						

5.4.9	TABLE: Electric strength	tests		N/A
Test volta	age applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Function	al:	at the tit when	White white we	in men m
-1.	TEX STEX OUTER WITE .	men at man	- 1 1 1	\$ .# .S
Basic/su	oplementary:	at the wifet wifet	Inter which which	me m
÷	* white white white wh	2	the state	5 ⁴ - 5 ⁰
Reinforce	ed:	of a life with anythe and	in which which	m. m.
- Jet	white white white white		F St St	JEL - JEL
Routine ⁻	Tests:	white wifes white white	mer me a	p. m.
-Set	NUTER WALTE WALT WALT	- + + #	- 10 5th 5	it when a
Supplem	entary information:			•

5.5.2.2	TABLE:	Stored discharge of	on capacitors	t it	et et	N/A
Location		Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class

NU NU NU

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		IN IEC 62368-1	24. 11.
Clause	Requirement – Test	Result – Remark	Verdict

1 1.	Set Ster Mile	Normal			at the
and which and	t it it	Single fault: SC/ OC	WALTE WALT	white whi	- m -

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	TABLE: Resistance of protective conductors and terminations						
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)			
50 .5	et until white white	mer - m	- + - ,+ ,	st	t all mi			
Suppleme	ntary information:							

5.7.4 T	ABLE: Unearthed acc	cessible parts				N/A
Location	Operating and		F		ES class	
	fault conditions	S Voltage (V)	Voltage (V _{rms} or V _{pk} )	Current (A _{rms} or A _{pk} )	Freq. (Hz)	
L/N to second	ary Normal	IT - MALL	S 1	3 <u>-</u> 2		,+ ,e
terminals	Abnormal: overload	ret outer	NITEX WALTER W	LIE WILLIAM	The Mu	270L
	Single fault: SC/ OC		ret wret wi	et whitet whi	et	WITTE .
Supplementar	y information:					
SC= short circ	cuit; OC= open circuit	e at de	t the ste	INC. MAL	mr.	n. n

5.7.5 **TABLE: Earthed accessible conductive part** N/A Supply voltage (V)..... --[] Single Phase; [] Three Phase: [] Delta [] Wye Phase(s) ..... Power Distribution System ..... [ ] TN []TT []IT Location Fault Condition No in IEC Touch current Comment 60990 clause 6.2.2 (mA) ___ Supplementary Information:

5.8	TABLE	TABLE: Backfeed safeguard in battery backed up supplies					
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class



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EN IEC 62368-1					
Clause	Requirement – Test	Result – Remark	Verdict		
de	The second second	all all all all all and	We we		

6.2.2 TABLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class	
All circuit	Normal		the - the	5 ⁶⁷ 5 ⁷⁰	3S	PS1	

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

* Unit shutdown immediately, recoverable, no hazard.

6.2.3.1	TABLE: Determi	nation of Arcing PIS	me me m		N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
	LIE MALIE WAL	Mrm. "	1 <del>7</del> 1	at - at	LIFE TUTE N

Supplementary information:

6.2.3.2 TABLE: Dete	rmination of resistive PIS		> _< N/A <
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
All primary circuits/components	and when the street marter and	WALTER WATCH WALTER	Yes (declaration)

Supplementary information:

All circuits are considered as resistive PIS;

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

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

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

8.5.5	TABLE: High pr	essure lamp	an an	a at	st	N/A
Lamp mar	ufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)		icle found nd 1 m Yes / No
-	t st	Tet allet white	They were me	mu - an	20.	t
Suppleme	ntary information:					
	a de s	at let star	NEL MAL MAN	an in	20	



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in mer	with the state	EN IEC 62368-1	me me
Clause	Requirement – Test	Result – Remark	Verdict

9.6 T	ABLE: T	E: Temperature measurements for wireless power transmitters									
Supply voltage	e (V)				1 5	* SIE	INLIE M	in the			
Max. transmit	power of	f transm	nitter (W)		24	24	at a	d 2			
		/o rece direct c	iver and contact		eiver and contact		ver and at of 2 mm		vith receiver and at distance of 5 mm		
Foreign object		bject (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)		
nut - nut	- July	- 200	$-\pi_{b}$	20-		stst			JE NULL		
Supplementary	/ informa	ition:									

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temp	perature m	easurem	ents				AND THE PUNC
Supply voltag	ge (V)	AA			E NY	_		
Ambient temperature during test $T_{amb}$ (°C):				See below	nn		Ĩ.z	
Maximum measured temperature <i>T</i> of part/at:					T	(°C)		Allowed T _{max} (°C)
PCB under U1				29.1			Jet - Ni	130
Interior wire	WW		\s ^e .	28.6			<u> </u>	80
Enclosure ins	ide 📣			26.5			and the second	Ref.
Enclosure ou	tside 🧹	JUL IN	THE MA	29.9	an -	w		48
Ambient			25.0		5 ¹⁰	JUL- N	La the s	
Temperature T of $t_1$ (°C) $R_1$ ( $\Omega$ )winding: $R_1$ $\Omega$			t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class	
The second	4	s st	. All	NUT - NO	202	n.	2112 - 20.	-

Supplementary information:

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

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 25°C.

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

								15 3	. Р
Hz I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)		Condition	/status	
0.002	1 <del>7</del> 20	0.006	725	. A	. S ^{ab}		JE MALT	when	an
ntary informa	ation:								
1	0.002 tary informa	(A) 0.002 tary information:	(A) (A) 0.002 0.006 tary information:	(A) (W) 0.002 0.006	(A)         (W)         No            0.002          0.006             tary information:	(A)         (W)         No         (A)            0.002          0.006              tary information:	(A)         (W)         No         (A)            0.002          0.006	(A)         (W)         No         (A)            0.002          0.006	(A)         (W)         No         (A)            0.002          0.006              tary information:

¹⁾ Supply by external DC source, ²⁾ Measured battery cells voltage and current. The maximum measured current under rated voltage did not exceed 110% of the rated current.



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B.3, B.4 TABLE: Abnormal operating and fault condition tests								
Ambient ten	nperature T _{amb} ( ^c	C)	·····			See b	elow	
Power sour	ce for EUT: Man	ufacturer, moo	del/type,	outputratin	ng :		at at at	
Componen No.	t Condition	Supply voltage (V)	Test time	Fuse no.		use ent (A)	Observation	
U1 pin 1-8	S-C	AA	7hrs	whitek.	INLIE	t whit	Unit shut down immedi damage, no hazard. Recoverable.	ately. No

Supplementary information:

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

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

1) s-c: Short-circuited; o-l: Overloaded; BL=Blocked.

2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.

3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.

4) Limit temperature: Plastic material: 87°C

M.3	TABLE: Pr	otection circu	uits f	or batterie	es provid	led v	vithin	the eq	uipment		N/As
Is it possible	to install the	battery in a re	evers	e polarity	position?.	:	-3		The st		
					C	Char	ging				
Equipment S	specification		Vo	ltage (V)					Current (A	۹)	
		1	Ļ	Stor 3	19		NUTE	MALAN	where a	ur.	- nu.
					Batter	y spe	ecifica	tion			
		Non-recharge	eable	batteries			Red	chargea	ble batteries	;	
		Discharging		ntentional	(				Dischargin		Reverse
Manufacturer/type				harging rrent (A)	Voltage	e (V) Currer		ent (A)	current (A)	)	charging current (A)
	we we	m. in		1	de la	St.	.5	1× 5	et intre	5	The write
Note: The tes	sts of M.3.2 a	are applicable o	only v	when abov	e appropr	iate	data i	s not av	ailable.		
Specified bat	ttery tempera	ature (°C)				<u></u> :	Set.	NITE.	10-45	. S.	
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltag (V)	e Ot	oser	vation
a sh	, et	et set		MALTE	MALL	M	-51	1	n - 2n		
Supplementa	ry informatic	n:									
		circuit; OC= op ission of flame						je; NS=	no spillage	of li	quid; NE=
M.4.2		arging safegu	ordo	for only	s and a s	nte	ning		ndon (lithi:		N/A

M.4.2 TABLE: Charging safeguards for equipment containing a secondary lithium battery



C

			E	EN IEC 62368-	1.1 . M			
Clause	Require	ment – Test	where when	the to	Result – Re	mark	Verdict	
Jun 1	u - u		4	5 5 S	with which which	-m		
Maximum s	pecified c	harging voltag	e (V)		.: 👘 💉	s & A		
Maximum s	pecified c	harging currer	nt (A)		i: Jifet and		_	
Highest spe	ecified cha	arging tempera	ature (°C)	15 - 10 -		the state		
Lowest spe	cified cha	rging tempera	ture (°C)			white white		
Battery Operating manufacturer/type and fault condition			Measurement		Observa	vation		
			Charging voltage (V)	Charging current (A)	Temp. (°C)			
Lowest spe	cified char	ging temperat	ure: 10°C	514 55	the marter of	in white whit	an	
INLIEK WINT	ret whit	Normal	LIC WALT	when we	attet out	A MALTER WALTER	WALTER	
	6 500	Abnormal-	er white y	un mu	The the	the state	det .	
	whitek a	Single fault – (R4 SC under condition 1)	whitek whit	et whitet	NUTET WALTER	white white wh	Int white	
Highest spe	cified cha	rging tempera	ture: 45°C	the m	4	at at a	+ 5 th	
when wh	۳۳ کې د کې	Normal	et untet	MULTER MUTE	white whi	wint wint	MALEX	
		Abnormal-		5 ⁶⁴ 5 ⁶⁶		water water	me n	
	- un	Single fault – (R4 SC under condition 1)	LIFEK MAL	et whitet w	LIE WALTE	milet someret of	NUTER WAY	

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 in	tended for int	erconnectio	n with buil	ding wiring	(LPS)	N/A
Output Circuit	Condition			I _{sc}	(A)	S (VA)	
	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
INCITES M	Normal	1 m	5S	A. A.	8.0	STAT ME	100
	the state	JEX MUTE	5S 📣	r. mr	8		100
	in which which we		5S	t let	8	Viet Inches	100
	s it it i	St NUT	5S	m.	8		100

Supplementary Information:

SC = short circuit, OC = open circuit

* Unit shutdown immediately, recoverable, no hazard.

T.2, T.3,	TABLE: Steady force test
T.4, T.5	

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2 Sur	EN IEC 62368-1							
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Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Plastics*	See table 4.1.2	m <u>r</u>	100	Jet 5	Enclosure remained intact, no crack/ opening developed
Plastics*	See table 4.1.2	nuit- un	100	5	Enclosure remained intact, no crack/ opening developed
Plastics*	See table 4.1.2	TER MULT	100	5	Enclosure remained intact, no crack/ opening developed
	Plastics* Plastics* Plastics*	Material(mm)Plastics*See table 4.1.2Plastics*See table 4.1.2Plastics*See table 4.1.2	Material (mm)(mm)ProbePlastics*See table 4.1.2 4.1.2Plastics*See table 4.1.2Plastics*See table 4.1.2	Material (mm)(mm)Probe (N)Plastics*See table 4.1.2100Plastics*See table 4.1.2100Plastics*See table 4.1.2100	MaterialInickness (mm)ProbeForce (N)Duration (s)Plastics*See table 4.1.21005Plastics*See table 4.1.21005Plastics*See table 4.1.21005

Supplementary information:

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

T.6, T.9 TA	ABLE: Impa	ct test	n n	N/A
Location/Part	Material	Thickness (mm)	Height (mm)	Observation
mer m	-2m	s. st	at set	WITE WITE WITT WATE WATE WATE
S	* NITER .	NUTE WALTE W	r. m	and the set set set
m. m.	10 1	at at a	t ster	white white white white white with our
Supplementary	/ information	:		

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

Observation	
ure remained intact, no crack/ opening ped. No hazards.	
Enclosure remained intact, no crack/ opening developed. No hazards.	
sure remained intact, no crack/ opening ped. No hazards.	

Т.8	TABLE: Stres	s relief test			P		
Location/Par	t Material	Thickness (mm)	Oven Temperatur e (°C)	Duration (h)	Observation		
Enclosure Plastic* See table 4.1.		See table 4.1.2	70°C	7h	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No hazards.		
Supplementa	ary information						
	· · · · · · · · · · · · · · · · · · ·	oduct with each sou	urce listed in t	able 4.1.2.	ter stre with white where		

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X TABLE: Alterna	TABLE: Alternative method for determining minimum clearances distances					
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)			
- 4	the state of the	it with - white we	nu - m			
Supplementary information:	· · · · · · · · · · · · · · · · · · ·	· ·				
No. 1 At	at let stat white	while while when	All An a			



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4.1.2	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
PCB	Shenzhen Hecheng Fast Electronic Technology Co Ltd	1,1a	V-0, 130°C	UL 796	UL E159194
(Alternative)	Interchangeable	Interchangeabl e	V-0, 130°C	UL 796	UL
Plastic enclosure	Formosa Chemicals & Fibre Corp Plastics Div	AC310(+)	V-0, min. thickness: 1.0mm, 85°C	UL94	UL E162823
Lead wire	Interchangeable	Interchangeabl e	Min. 30V, min. 80°C, min. 26AWG, VW-1	UL 758	UL

Supplementary information:

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



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Figure 1: External view



Figure 2: External view



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Figure 4: Interior view

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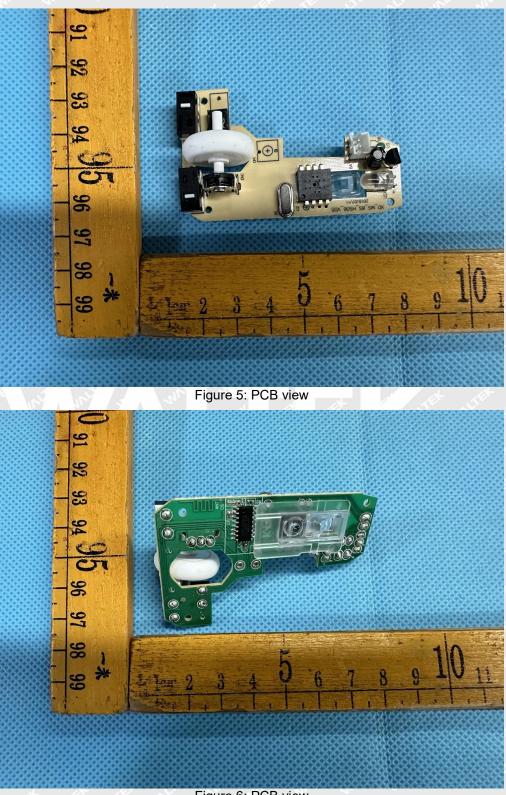


Figure 6: PCB view

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