



## **TEST REPORT**

Reference No	: 1	WTF22D06131498Y
Applicant	:	Mid Ocean Brands B.V.
Address	1715. K.	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	Nº22	109328
Address	ð.	I TEK TEK WATE WATE WATE WATE WATE WATE
Product	: <	Health bracelet (smart watch)
Model(s)	۹	MO9771
Total pages	-an	56 + 5 pages of photo documentation
Standards	10	EN IEC 62368-1:2020+A11:2020
		Audio/video, information and communication technology equipment- Part 1:Safety requirements
Date of Receipt sample		2022-07-01
Date of Test	ð.	2022-07-01 to 2022-07-07
Date of Issue	- 24	2022-07-15
Test Result	: -	Pass A A A A

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

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Compiled by:

Lin GAry

Gary Liu / Project Engineer

Approved by:

Sam Qi / Designated Reviewer

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MOB         ce :       MO9771         Input: 5V, 65mA, battery: 3         the product have been subcontracted to         No         items and lab information:         on:         con:         co	other labs: h attachment): Testing location: Waltek Testing Group Co., Ltd. No. 77, Houjie Section, Guantai R oad, Houjie Town, Dongguan City Guangdong, China
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force test, 100 N	
st	and the street surface shall
Relief Test	all the wat all all and the
al energy source classifications	at set stat state with
um operating temperatures for als, components and systems	and water white white water
source circuit classifications	TER MITER WATE WALL WILL Y
nent safeguards for thermal burn	a state of
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ted single fault conditions	white white must white white
	with with the state with
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	als, components and systems source circuit classifications ment safeguards for thermal burn ests ted abnormal operating condition tests ted single fault conditions ion circuits for batteries provided within upment ng safeguards for equipment containing ndary lithium battery e with National Differences:

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#### Copy of marking plate:

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



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Test item particulars:	white white white white white white
Product group:	end product  built-in component
Classification of use by:	<ul> <li>☑ Ordinary person</li> <li>☑ Instructed person</li> <li>☑ Skilled person</li> <li>☑ AC mains</li> <li>☑ DC mains</li> </ul>
Supply tolerance:	<ul> <li>☑ not mains connected:</li> <li>☑ ES1 □ ES2 □ ES3</li> <li>□ +10%/-10%</li> <li>□ +20%/-15%</li> <li>□ + %/- %</li> </ul>
Supply connection – type:	<ul> <li>None</li> <li>pluggable equipment type A -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> </ul>
A STER WALTER WALTER WALTER WALTER WALTER WALTER	<ul> <li>pluggable equipment type B -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>permanent connection</li> <li>mating connector other: not directly connected to the mains.</li> </ul>
Considered current rating of protective device	A; Location: building equipment
Equipment mobility:	<ul> <li>N/A</li> <li>movable</li> <li>hand-held</li> <li>transportable</li> <li>direct plug-in</li> <li>stationary</li> <li>for building-in</li> <li>wall/ceiling-mounted</li> <li>SRME/rack-mounted</li> <li>other:</li> </ul>
Overvoltage category (OVC):	□ OVC I       □ OVC II       □ OVC III         □ OVC IV       ⊠ other: not directly connected to the mains.
Class of equipment:	□ Class I     □ Class II     ⊠ Class III       □ Not classified     □
Special installation location:	<ul> <li>N/A □ restricted access area</li> <li>□ outdoor location □</li> </ul>
Pollution degree (PD):	□ PD 1
Manufacturer's specified T <sub>ma</sub> :	40 °C ☐ Outdoor: minimum °C
IP protection class: Power systems:	□ IPX0     □ IP       □ TN     □ TT     □ IT -     V L-L       □ not AC mains
Altitude during operation (m):	⊠ 2000 m or less □ m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg):	0.025 kg

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Possible test case verdicts:	with the state of the
- test case does not apply to the test object :	N/A the second second second second
- test object does meet the requirement :	P (Pass)
- test object does not meet the requirement :	F (Fail)
Testing:	when the set set
Date of receipt of test item: :	2022-07-01
Date (s) of performance of tests :	2022-07-01 to 2022-07-07

**General remarks:** 

"(See Enclosure #)" refers to additional information appended 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 and other remarks:

1. The product with model MO9771 which used as information technology equipment is Health bracelet, also named smart watch;

2. The product is powered by 5V external DC source or 3.7V Rechargeable Li-ion Battery;

3. The maximum operating temperature is 40°C;

4. The equipment used a maximum altitude of 2000 meters.

Model difference:

None

Additional application considerations – (Considerations used to test a component or sub-assembly) – Integrated sample provided.

None



Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
Ordinary	ES1: Input circuit ES1: battery	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	S	R
Combustible materials within equipment	PS1: Input circuit PS1: battery	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
Ordinary	MS1: Sharp edges, corners and Equipment mass	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part	Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
Ordinary	TS1: Accessible parts	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
Ordinary	RS1: screen display and indicating light	N/A	N/A	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	N <sup>DCP</sup>
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	antifek
4.1.3	Equipment design and construction	Tex when when white	10 <sup>-10</sup> P 3
4.1.4	Specified ambient temperature for outdoor use (°C)	at that that what we	N/A
4.1.5	Constructions and components not specifically covered	when when we we	N/A
4.1.8	Liquids and liquid filled components (LFC)	white white where where	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	Inter when when when	Р
4.4.3.1	General	at a star	S <sup>C</sup> P S
4.4.3.2	Steady force tests	(See Clause T.4)	Р
4.4.3.3	Drop tests	(See Clause T.7)	P
4.4.3.4	Impact tests	me me me	N/A
4.4.3.5	Internal accessible safeguard tests	Tet stret white white	N/A
4.4.3.6	Glass impact tests	No glass used.	N/A
4.4.3.7	Glass fixation tests	with notes white white	N/A
at a	Glass impact test (1J)	and the state	N/A
in whi	Push/pull test (10 N)	let outer onlife would all	N/A
4.4.3.8	Thermoplastic material tests	(See Clause T.8)	¢ P_∢
4.4.3.9	Air comprising a safeguard	white white white white	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	a at at at	N/A
4.4.4	Displacement of a safeguard by an insulating liquid	INTE WATE WATE WATE	N/A
4.4.5	Safety interlocks	(See Annex K)	N/A
4.5	Explosion	NET WALL WALL WALL V	Р
4.5.1	General	at let let stat a	P. 5
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
m	No harm by explosion during single fault conditions	(See Clause B.4)	≪ <sup>™</sup> P
4.6	Fixing of conductors	it at at at	N/A
m. m	Fix conductors not to defeat a safeguard	nette unit white white	N/A



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	EN IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
- There	Compliance is checked by test	Mail Mail Mill Mark	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	Le me me m	N/A
4.7.3	Torque (Nm):	set stat what what a	N/A
4.8	Equipment containing coin/button cell batteries	the the course	N/A
4.8.1	General	t with which which whi	N/A
4.8.2	Instructional safeguard	M W L	N/A
4.8.3	Battery compartment door/cover construction	with out on the white	N/A
j.t.	Open torque test	and the state	N/A
4.8.4.2	Stress relief test	LIFE WILLE WALL WALL	N/A
4.8.4.3	Battery replacement test	· · · · · · · · · · · · · · · · · · ·	</td
4.8.4.4	Drop test	ET MALLE MALL MALL WI	N/A
4.8.4.5	Impact test	a at at a	N/A
4.8.4.6	Crush test	white white white white	N/A
4.8.5	Compliance	at at at at	N/A
11 2	30N force test with test probe	with more and me	N/A
Siller S	20N force test with test hook	at the state	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A
4.10 5	Component requirements		N/A
4.10.1	Disconnect Device	No such devices used.	N/A
4.10.2	Switches and relays	No such switches and relays used.	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sour	ces de de	5" P
5.2.2	ES1, ES2 and ES3 limits	Considered as ES1	P
5.2.2.2	Steady-state voltage and current limits:	t at at 5th .	N/A
5.2.2.3	Capacitance limits	me me me	N/A
5.2.2.4	Single pulse limits	set set with mi	N/A
5.2.2.5	Limits for repetitive pulses:	Mr. Mr. M. L.	N/A
5.2.2.6	Ringing signals	Tet utet sure with	N/A
5.2.2.7	Audio signals	1. M. M. S.	N/A
5.3	Protection against electrical energy sources	LEK STER NITE WITCH	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	the state state of	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	mus me me	N/A



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20.	EN IEC 62368-1	in which when such such	14.
Clause	Requirement + Test	Result - Remark	Verdic
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	which which will will be	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	NUT WALL WALL WALL	N/A
in me	Accessibility to outdoor equipment bare parts	LET MUTEL WALT WALL W	N/A
5.3.2.2	Contact requirements	a state of a	N/A
m	Test with test probe from Annex V	MALTE MALT WALL WAL	-
5.3.2.2 a)	Air gap – electric strength test potential (V):	a at at at	N/A
5.3.2.2 b)	Air gap – distance (mm)	white white white white	√ <sup>0</sup> N/A
5.3.2.3	Compliance	at at at at	N/A
5.3.2.4	Terminals for connecting stripped wire	with white white white a	N/A
5.4	Insulation materials and requirements	it it it it is	N/A
5.4.1.2	Properties of insulating material	wat was me m	N/A
5.4.1.3	Material is non-hygroscopic	. at the the state	N/A
5.4.1.4	Maximum operating temperature for insulating materials	when when when when the	N/A
5.4.1.5	Pollution degrees:	2	N/A
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	a stand with million and	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage:	stre main wat wat	N/A
5,4.1.9	Insulating surfaces	at at at at	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	which were were sur	N/A
5.4.1.10.2	Vicat test:	white white white white	N/A
5.4.1.10.3	Ball pressure test:	is at at at	N/A
5.4.2	Clearances	until white white white	N/A
5.4.2.1	General requirements	at at at at	N/A
it it	Clearances in circuits connected to AC Mains, Alternative method	and when when a	N/A
5.4.2.2	Procedure 1 for determining clearance	er inter while while whi	N/A
t set	Temporary overvoltage:	a at at at	
5.4.2.3	Procedure 2 for determining clearance	spring while while apprint	N/A
5.4.2.3.2.2	a.c. mains transient voltage	1 + A At	



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Clause	EN IEC 62368-1 Requirement + Test	Result - Remark	Verdic
		Result - Remark	verdic
5.4.2.3.2.3	d.c. mains transient voltage:	No such transient	
5.4.2.3.2.4	External circuit transient voltage:	No such transient	
5.4.2.3.2.5	Transient voltage determined by measurement:	n' with such as the	—
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Using procedure 2 to determine the clearance according to 5.4.2.3.	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	white white white white	N/A
5.4.2.6	Clearance measurement	Intret Intre Mult Mult	.Ä/A
5.4.3	Creepage distances	i i at at	N/A
5.4.3.1	General	till white white white a	N/A
5.4.3.3	Material group	a state tot a	
5.4.3.4	Creepage distances measurement	white white whe wh	N/A
5.4.4	Solid insulation	at at at 5	N/A
5.4.4.1	General requirements	while white where where	N/A
5.4.4.2	Minimum distance through insulation	at at any at	N/A
5.4.4.3	Insulating compound forming solid insulation	No such insulation applied.	N/A
5.4.4.4	Solid insulation in semiconductor devices	at the states	N/A
5.4.4.5	Insulating compound forming cemented joints	a sur in a	N/A
5.4.4.6	Thin sheet material	in the state with sol	N/A
5.4.4.6.1	General requirements	when when we we	N/A
5.4.4.6.2	Separable thin sheet material	wifet wifet white white	N/A
dt -	Number of layers (pcs):	the second second	N/A
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A
TEN NUTE	Number of layers (pcs)	at the the pret of	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	when we we we	N/A
5.4.4.6.5	Mandrel test	water water war war	N/A
5.4.4.7	Solid insulation in wound components	the set set site	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_{\rm P}$ , $K_{\rm R}$ , $d$ , $V_{\rm PW}$ (V)	and whe will all	N/A
at alt	Alternative by electric strength test, tested voltage (V), $K_{R}$	and which when a	N/A
5.4.5	Antenna terminal insulation	at miller while while whi	N/A
5.4.5.1	General	a to to the	N/A
5.4.5.2	Voltage surge test	inter whit she whe	N/A
5.4.5.3	Insulation resistance (MΩ)	a at at at	N/A
m. m.	Electric strength test	nere white white white	N/A



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Clause	Requirement + Test	Result - Remark	Verdic
5.4.6	Insulation of internal wire as part of supplementary safeguard	white white white white	N/A
5.4.7	Tests for semiconductor components and for cemented joints	MITE MALL WALL MAR	N/A
5.4.8	Humidity conditioning	fet miner white white	N/A
et whitet	Relative humidity (%), temperature (°C), duration (h)	- und wind much an	5 -
5.4.9	Electric strength test	AND AND AND A	N/A
5.4.9.1	Test procedure for type test of solid insulation:	(See appended table 5.4.9)	N/A
5.4.9.2	Test procedure for routine test	M W the	N/A
5.4.10	Safeguards against transient voltages from external circuits	STER WATER WATER WATER	N/A
5.4.10.1	Parts and circuits separated from external circuits	et wet whet white a	N/A
5.4.10.2	Test methods	the second second	N/A
5.4.10.2.1	General	white outer on the work	N/A
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test	(See appended table 5.4.9)	s∿N/A
5.4.10.3	Verification for insulation breakdown for impulse test	at anot suret	N/A
5.4.11	Separation between external circuits and earth		N/A
5.4.11.1	Exceptions to separation between external circuits and earth	souther souther wouth on	N/A
5.4.11.2	Requirements	alt and and and	N/A
Stat as	SPDs bridge separation between external circuit and earth	soft soft soft soft	N/A
m. m.	Rated operating voltage U <sub>op</sub> (V):	sere when whe whe	
art are	Nominal voltage U <sub>peak</sub> (V):	at at set set	
	Max increase due to variation $\Delta U_{sp}$	which when when a	
A MUTER	Max increase due to ageing $\Delta U_{sa}$	- tet the state of	× _
5.4.11.3	Test method and compliance	(See appended table 5.4.9)	N/A
5.4.12	Insulating liquid	SEX WIFE MUTE MUTE	N/A
5.4.12.1	General requirements	in the second	N/A
5.4.12.2	Electric strength of an insulating liquid	(See appended table 5.4.9)	N/A
5.4.12.3	Compatibility of an insulating liquid:	(See appended table 5.4.9)	N/A
5.4.12.4	Container for insulating liquid	at miller while while w	N/A
5.5	Components as safeguards	the state of	N/A
5.5.1	General	intite white white white	N/A
5.5.2	Capacitors and RC units	a at at at	N/A
5.5.2.1	General requirement	NUTE WITH WITH WITH	N/A



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EN IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	N/A	
5.5.3	Transformers	nest whit whit when when	N/A	
5.5.4	Optocouplers	at at let let	N/A	
5.5.5	Relays	it white white where we	N/A	
5.5.6	Resistors	t at at at and	N/A	
5.5.7	SPDs	more when we we	N/A	
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	WALTER WALTER WALTER WALTE	N/A	
5.5.9	Safeguards for socket-outlets in outdoor equipment	at at set set	N/A	
h 24	RCD rated residual operating current (mA)	the main way way and	_	
5.6	Protective conductor	at all all all all a	N/A	
5.6.2	Requirement for protective conductors	when the same say	N/A	
5.6	Protective conductor		N/A	
5.6.2	Requirement for protective conductors	mer mer me an	N/A	
5.6.2.1	General requirements	stet state wife wife	N/A	
5.6.2.2	Colour of insulation	In my the	N/A	
5.6.3	Requirement for protective earthing conductors	att on the south of	N/A	
t At	Protective earthing conductor size (mm <sup>2</sup> ):			
white	Protective earthing conductor serving as a reinforced safeguard	White white white whe	N/A	
WALTE V	Protective earthing conductor serving as a double safeguard	WALTER WALTER WALTER WALTE	N/A	
5.6.4	Requirements for protective bonding conductors	it it is not all	N/A	
5.6.4.1	Protective bonding conductors	N. Mr. Mr. M.	N/A	
	Protective bonding conductor size (mm <sup>2</sup> ):	let get whet whet all	_	
5.6.4.2	Protective current rating (A):	me m m	N/A	
5.6.5	Terminals for protective conductors	The street on the south	N/A	
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	and and sold sold autor	N/A	
Ser Se	Terminal size for connecting protective bonding conductors (mm)	in which when we	N/A	
5.6.5.2	Corrosion	LIP MALL WALL WALL V	N/A	
5.6.6	Resistance of the protective bonding system	+ at at set	N/A	
5.6.6.1	Requirements	WALL WALL WALL WIT	N/A	
5.6.6.2	Test Method	(See appended table 5.6.6)	N/A	
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop	(See appended table 5.6.6)	N/A	
5.6.7	Reliable connection of a protective earthing conductor	NITER WITER WHITER WHITER	N/A	



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24	EN IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
5.6.8	Functional earthing	White white with white	N/A		
INTER I	Conductor size (mm <sup>2</sup> ):	set stet stet when	N/A		
6	Class II with functional earthing marking	and the same and	N/A		
LIET JNL	Appliance inlet cl & cr (mm)	alt all when all a	N/A		
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A		
5.7.2	Measuring devices and networks	et with aller muter whi	N/A		
5.7.2.1	Measurement of touch current	(See appended table 5.7.2.2, 5.7.4)	N/A		
5.7.2.2	Measurement of voltage	When all all and	N/A		
5.7.3	Equipment set-up, supply connections and earth connections	STER MUTER WAITE WAITE	N/A		
5.7.4	Unearthed accessible parts:	(See appended table 5.7.4)	N/A		
5.7.5	Earthed accessible conductive parts	(See appended table 5.7.5)	N/A		
5.7.6	Requirements when touch current exceeds ES2 limits	A MALTER WALTER WALTER WALT	N/A		
Set	Protective conductor current (mA):	at at at at	N/A		
m n	Instructional Safeguard:	intra main and and	N/A		
5.7.7	Prospective touch voltage and touch current associated with external circuits	at white white a	N/A		
5.7.7.1	Touch current from coaxial cables	+t	⊘-N/A <		
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	white white white wh	N/A		
5.7.8	Summation of touch currents from external circuits	with all and and and and and a	N/A		
INLIEK NO	a) Equipment connected to earthed external circuits, current (mA)	Tet tet with with	N/A		
set of	b) Equipment connected to unearthed external circuits, current (mA)	a at the tit	N/A		
5.8	Backfeed safeguard in battery backed up supplies		N/A		
A JIEL	Mains terminal ES:	(See appended table 5.8)	N/A		
-24	Air gap (mm)	mer mer mer with	N/A		

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



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Clause	Requirement + Test	Result - Remark	Verdict
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.1.5 and B.3)	P
A A	Combustible materials outside fire enclosure:	the state	N/A
6.4	Safeguards against fire under single fault condition	ons of one of	Poll
6.4.1	Safeguard method	Method of "control of fire spread" is used.	P P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	the state state with	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	and when such that	N/A
6.4.3.1	Supplementary safeguards	I TE WALL WIT WIT	N/A
6.4.3.2	Single Fault Conditions:	(See appended table B.4)	P
- 20	Special conditions for temperature limited by fuse	Mar Mar Mar 1	N/A
6.4.4	Control of fire spread in PS1 circuits	the state of a	N/A
6.4.5	Control of fire spread in PS2 circuits	mer me me m	N/A
6.4.5.2	Supplementary safeguards	let the state street state	N/A
6.4.6	Control of fire spread in PS3 circuits	NUT MUT MU MU	N/A
6.4.7	Separation of combustible materials from a PIS	at all the mark	N/A
6.4.7.2	Separation by distance	3 1 2 1 1 1	N/A
6.4.7.3	Separation by a fire barrier	et all internet and the and	N/A
6.4.8	Fire enclosures and fire barriers	Mr. No.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	white mare white whi	N/A
6.4.8.2.1	Requirements for a fire barrier	an a st st	N/A
6.4.8.2.2	Requirements for a fire enclosure	street white white white	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	et allet maret wiret	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	AN S. A	N/A
6.4.8.3.2	Fire barrier dimensions	ALTER INLIER WALTE WA	N/A
6.4.8.3.3	Top openings and properties	w w at at a	N/A
with sh	Openings dimensions (mm)	INTER MUTE MALL MALL	.√N/A
6.4.8.3.4	Bottom openings and properties	and the state	N/A
ter an	Openings dimensions (mm):	NUTER MALTE WALL WALL	N/A
18 - 18	Flammability tests for the bottom of a fire enclosure	a state state	N/A
-14-	Instructional Safeguard:	while while when w	N/A
6.4.8.3.5	Side openings and properties	No door or cover.	N/A
24 .	Openings dimensions (mm):	white white white white	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	THE STREE NUT MITCH	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	white white white white	N/A	
6.4.9	Flammability of insulating liquid:	NUTE WALL WALL WALL	N/A	
6.5	Internal and external wiring	at at let let	Ň/A	
6.5.1	General requirements	and which which which is	N/A	
6.5.2	Requirements for interconnection to building wiring	et mitet unitet unitet whitet	N/A	
6.5.3	Internal wiring size (mm <sup>2</sup> ) for socket-outlets:	a at at a	N/A	
6.6	Safeguards against fire due to the connection to	additional equipment	N/A	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
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
200	Personal safeguards and instructions	_
7.5	Use of instructional safeguards and instructions	N/A
at a	Instructional safeguard (ISO 7010)	
7.6	Batteries and their protection circuits	P.S

8	MECHANICALLY-CAUSED INJURY	Р
8.2	Mechanical energy source classifications	Pot
8.3	Safeguards against mechanical energy sources	N/A
8.4	Safeguards against parts with sharp edges and corners	N/A
8.4.1	Safeguards	N/A
18t . 5t	Instructional Safeguard:	N/A
8.4.2	Sharp edges or corners	N/A
8.5	Safeguards against moving parts	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	N/A
when when	MS2 or MS3 part required to be accessible for the function of the equipment	N/A
mer whe	Moving MS3 parts only accessible to skilled person	N/A
8.5.2	Instructional safeguard	N/A
8.5.4	Special categories of equipment containing moving parts	N/A
8.5.4.1	General	N/A
8.5.4.2	Equipment containing work cells with MS3 parts	N/A
8.5.4.2.1	Protection of persons in the work cell	N/A



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<u></u>	EN IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.2	Access protection override	when she with	N/A
8.5.4.2.2.1	Override system	and and all the	N/A
8.5.4.2.2.2	Visual indicator	our me me s	N/A
8.5.4.2.3	Emergency stop system	ster street intremant	N/A
et miret	Maximum stopping distance from the point of activation (m):	t set set with	N/A
	Space between end point and nearest fixed mechanical part (mm):	when when we	N/A
8.5.4.2.4	Endurance requirements	water water water	N/A
INLIER WILL	Mechanical system subjected to 100 000 cycles of operation	tifet whitet whitet w	N/A
Tet Jet	- Mechanical function check and visual inspection	s at at a	o N/A
- m	- Cable assembly	se whit whit whe	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	MITEL MAITEL WALTER	N/A
8.5.4.3.1	Equipment safeguards	a stat	N/A
8.5.4.3.2	Instructional safeguards against moving parts:	intre white white of	N/A
8.5.4.3.3	Disconnection from the supply	A A A	N/A
8.5.4.3.4	Cut type and test force (N):	a and an	N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps	when when which	N/A
WALLE M	Explosion test	TEX TEX MILES	N/A
8.5.5.3	Glass particles dimensions (mm):	me m. m.	N/A
8.6	Stability of equipment	THE MUTER MUTER W	N/A
8.6.1	General		N/A
in white	Instructional safeguard:	LIER INLIER WALTE WAL	N/A
8.6.2	Static stability	A A A	N/A
8.6.2.2	Static stability test:	white white white	N/A
8.6.2.3	Downward force test	at let let	N/A
8.6.3	Relocation stability	white white white	N/A
NUTER INC	Wheels diameter (mm):	let let set a	5 <sup>65</sup> —
	Tilt test	le me an m	N/A
8.6.4	Glass slide test	at the with with	N/A
8.6.5	Horizontal force test:	The second second	N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:	N N A	N/A
8.7.2	Test methods	THE STREEMENTS	N/A

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Clause	Requirement + Test	Result - Remark	Verdic
m	Test 1, additional downwards force (N)	white white white	N/A
MULTER M	Test 2, number of attachment points and test force (N)	NUTER WALTER WHITER W	N/A
tirek whit	Test 3 Nominal diameter (mm) and applied torque (Nm)	LEX MUTER MALIER WAY	N/A
8.8	Handles strength		N/A
8.8.1	General	e untre white white	N/A
8.8.2	Handle strength test	a at at	N/A
me a	Number of handles:	white white white	w
all a	Force applied (N):	at at at	Set Set
8.9	Wheels or casters attachment requirements	with most with m	N/A
8.9.2	Pull test	at at at is	N/A
8.10	Carts, stands and similar carriers	me me m	N/A
8.10.1	General	t let set set	N/A
8.10.2	Marking and instructions:	mr. m. m	N/A
8.10.3	Cart, stand or carrier loading test	the state out of	N/A
4	Loading force applied (N):	and the second	N/A
8.10.4	Cart, stand or carrier impact test	att white wh	N/A
8.10.5	Mechanical stability		N/A
with	Force applied (N):	mitte unite while	my the
8.10.6	Thermoplastic temperature stability	a to the	N/A
8.11	Mounting means for slide-rail mounted equipmen	t (SRME)	√ N/A
8.11.1	General	a at at	N/A
8.11.2	Requirements for slide rails	man which which we	N/A
THE NE	Instructional Safeguard:	at at let a	N/A
8.11.3	Mechanical strength test	white white white	N/A
8.11.3.1	Downward force test, force (N) applied:	- 10 50 50 50	N/A
8.11.3.2	Lateral push force test	me me m	N/A
8.11.3.3	Integrity of slide rail end stops	Tet the state	N/A
8.11.4	Compliance	and the second	N/A
8.12	Telescoping or rod antennas	THE STREE MUTER IN	N/A

9	THERMAL BURN INJURY	the state of	- Post
9.2	Thermal energy source classifications	million while white white	< <b>√</b> P · ·
9.3	Touch temperature limits	LA A A	Р
9.3.1	Touch temperatures of accessible parts:	(See appended table)	•••_ •



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Clause	Requirement + Test	Result - Remark	Verdict	
9.3.2	Test method and compliance	which which with which	Р	
9.4	Safeguards against thermal energy sources	at the tree with	N/A	
9.5	Requirements for safeguards	and and any any	N/A	
9.5.1	Equipment safeguard	Enclosure	N/A	
9.5.2	Instructional safeguard:	an an an	N/A	
9.6	Requirements for wireless power transmitters	et whet where where wh	N/A	
9.6.1	General	The second	N/A	
9.6.2	Specification of the foreign objects	still out on the solution	N/A	
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A	

10	RADIATION	
10.2	Radiation energy source classification	Р
10.2.1	General classification The screen display and indicating light were RS1	Pre Number
j\$	Lasers	
in in	Lamps and lamp systems	
det i	Image projectors	
in m	X-Ray	
et st	Personal music player	—
10.3	Safeguards against laser radiation	N/A
WALTER	The standard(s) equipment containing laser(s) comply:	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)	N/A
10.4.1	General requirements	N/A
a sur	Instructional safeguard provided for accessible radiation level needs to exceed	N/A
MALIT	Risk group marking and location:	N/A
dt.	Information for safe operation and installation	N/A
10.4.2	Requirements for enclosures	N/A
d.	UV radiation exposure:	N/A
10.4.3	Instructional safeguard:	N/A
10.5	Safeguards against X-radiation	
10.5.1	Requirements	N/A
t Set	Instructional safeguard for skilled persons:	
10.5.3	Maximum radiation (pA/kg)	
10.6	Safeguards against acoustic energy sources	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
10.6.1	General	WALT WALT WILL	N/A
10.6.2	Classification	let the tree	N/A
4	Acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	bur mu m n	N/A
LIE MAL	Unweighted RMS output voltage (mV):	let user when m	N/A
st at	Digital output signal (dBFS):	the second	N/A
10.6.3	Requirements for dose-based systems	et strek outer white	N/A
10.6.3.1	General requirements	SH. SH.	N/A
10.6.3.2	Dose-based warning and automatic decrease	allet milter waite	N/A
10.6.3.3	Exposure-based warning and requirements	s t at	N/A
we m	30 s integrated exposure level (MEL30):	white white white w	N/A
de de	Warning for MEL $\geq$ 100 dB(A):	i stati	<i></i> ∕N/A
10.6.4	Measurement methods	Set white white white	N/A
10.6.5	Protection of persons	the state	N/A
2m	Instructional safeguards	white whe whe	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	NUTER AND FER ANALIER A	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
in me	Listening device input voltage (mV):	The works we	N/A
10.6.6.2	Corded listening devices with digital input		N/A
- an-	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	white white white	N/A
10.6.6.3	Cordless listening devices	at at at	N/A
Su. 1	Max. acoustic output <i>L</i> <sub>Aeq,T</sub> , dB(A):	when when when	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General	LIE MUST WALL WALL W	Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P PS
B.2	Normal operating conditions	white white white white	Р
B.2.1	General requirements:	(See summary of testing& appended test tables)	Р
INLIEK WA	Audio Amplifiers and equipment with audio amplifiers:	They white would wonter	N/A
B.2.3	Supply voltage and tolerances	i i i it	
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3 💉	Simulated abnormal operating conditions	i i at at at	P
B.3.1	General	(See appended table B.3&B.4)	Р
B.3.2	Covering of ventilation openings	state out a south south	√ <sup>™</sup> N/A √ <sup>0</sup>



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-20.	EN IEC 62368-1	and the she she she	
Clause	Requirement + Test	Result - Remark	Verdict
20	Instructional safeguard:	mer mer me m	N/A
B.3.3	DC mains polarity test	all all area area ware	N/A
B.3.4	Setting of voltage selector	No such voltage selector	N/A
B.3.5	Maximum load at output terminals	set the white outer	N/A
B.3.6	Reverse battery polarity	the second	N/A
B.3.7	Audio amplifier abnormal operating conditions	t with aller while wh	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
B.4	Simulated single fault conditions	where where where the	Р
B.4.1	General	THE THE MUTER WITE	P s
B.4.2	Temperature controlling device	a the main a	N/A
B.4.3	Blocked motor test	(See appended table B.4)	P R/P
B.4.4	Functional insulation	the state	N/A
B.4.4.1	Short circuit of clearances for functional insulation	white white white wh	_ ⊳ P
B.4.4.2	Short circuit of creepage distances for functional insulation	and allet mark and	N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	at the state	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	- s contra son	N/A
B.4.6	Short circuit or disconnection of passive components	whit whit whit w	Р
B.4.7	Continuous operation of components	white white white white	N/A
B.4.8	Compliance during and after single fault conditions	(See appended table B.4)	P
B.4.9	Battery charging and discharging under single fault conditions	(See Annex M)	P
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements	me me me	N/A
C.1.3	Test method	ster ster with white	N/A
C.2	UV light conditioning test	when the the	N/A
C.2.1	Test apparatus	LEK NIEK INTER WAITE	N/A
C.2.2	Mounting of test samples	Str. A. A.	N/A
C.2.3	Carbon-arc light-exposure test	at white white white w	N/A
C.2.4	Xenon-arc light-exposure test	1 st st	- N/A
D	TEST GENERATORS		⇒Ñ/A
D.1	Impulse test generators	the state of	N/A
D.2 📣	Antenna interface test generator	with our work work	N/A



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Clause	Requirement + Test	Result - Remark	Verdic
			Sur.
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING		N/A
E.1	Electrical energy source classification for audio	signals	N/A
the wet	Maximum non-clipped output power (W):	set asset while while an	
1. 18	Rated load impedance (Ω):	Sh at at	
WALL	Open-circuit output voltage (V):	inter inter white white white	
MALTER	Instructional safeguard:	Instructional safeguard is not required.	_
E.2	Audio amplifier normal operating conditions	ma m m	N/A
Inter with	Audio signal source type:	Tet still miller white	
de de	Audio output power (W):	sur at at	_
in mou	Audio output voltage (V):	et alle and and which we	
+ st	Rated load impedance (Ω):	and the state of	_
m	Requirements for temperature measurement	untite white white white	N/A
E.3	Audio amplifier abnormal operating conditions	a at at at	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Р
F.1 🔊	General		P 🕫
d 1	Language	English	_
F.2	Letter symbols and graphical symbols	the south white white white	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	ster writer writer writer	y <sup>CT</sup> P
F.3 🔨	Equipment markings	at at let set	S <sup>E</sup> P
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	P
F.3.2	Equipment identification markings	See copy of marking plate.	P
F.3.2.1	Manufacturer identification	See copy of marking plate.	JUN P
F.3.2.2	Model identification:	See copy of marking plate.	P
F.3.3 🔊	Equipment rating markings	See the following details.	P √
F.3.3.1	Equipment with direct connection to mains	i st at at	►N/A</td
F.3.3.2	Equipment without direct connection to mains	IN MALTE MALL WALL WA	Р
F.3.3.3	Nature of the supply voltage:	m i it it i	Р
F.3.3.4	Rated voltage:	5V	P
F.3.3.5	Rated frequency	- 1 + 1+ 1+	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
100			- all
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection	N/A
F.3.4	Voltage setting device	No such device	N/A
F.3.5	Terminals and operating devices	the state street white all	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet	N/A
F.3.5.2	Switch position identification marking	No such switch used.	N/A
F.3.5.3	Replacement fuse identification and rating markings	united united united united	N/A
State St	Instructional safeguards for neutral fuse:	at at all set	N/A
F.3.5.4	Replacement battery identification marking:	the work work when y	N/A
F.3.5.5	Neutral conductor terminal	at the set set is	N/A
F.3.5.6	Terminal marking location	white white white white	N/A
F.3.6	Equipment markings related to equipment classification	white white white white	N/A
F.3.6.1	Class I equipment	Class III equipment	N/A
F.3.6.1.1	Protective earthing conductor terminal:	inter white white white	N/A
F.3.6.1.2	Protective bonding conductor terminals:	at the state	N/A
F.3.6.2	Equipment class marking	a sure sur as	N/A
F.3.6.3	Functional earthing terminal marking	the state state of	N/A
F.3.7	Equipment IP rating marking	IPX0	N/A
F.3.8	External power supply output marking	the state strate with	N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	STEP P
F.4 🖉	Instructions		Р
win 3	a) Information prior to installation and initial use	anti and and and	Р



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- alle	EN IEC 62368-1	in white white white	The the
Clause	Requirement + Test	Result - Remark	Verdict
Whitek W	b) Equipment for use in locations where children not likely to be present	WALL WALL WALL W	N/A
LIEK JAL	c) Instructions for installation and interconnection	et the state with	N/A
et untres	d) Equipment intended for use only in restricted access area	t millet antifet antifet	N/A
WALTER	e) Equipment intended to be fastened in place	Tet with with a	N/A
LIEK O	f) Instructions for audio equipment terminals	at at alt of	N/A
15 5	g) Protective earthing used as a safeguard	it was not the	N/A
VINCE NITEK	h) Protective conductor current exceeding ES2 limits	WALL WALL WALL	N/A
Jet	i) Graphic symbols used on equipment	with all all a	N/A
an a	j) Permanently connected equipment not provided with all-pole mains switch	anti wint aint wi	N/A
et white	k) Replaceable components or modules providing safeguard function	ANTITE ANTITA ANTITA	N/A
WALTER	I) Equipment containing insulating liquid	with miller whitek w	N/A
INLIGH N	m) Installation instructions for outdoor equipment	the state what we	N/A
F.5	Instructional safeguards	w. w. w. w.	N/A
G	COMPONENTS		P. R.
G.1	Switches	when we we	N/A
G.1.1	General	No such switch used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load	in in the	N/A
G.1.3	Test method and compliance	muter unite white wh	N/A
G.2	Relays	a st st st	N/A
G.2.1 🖑	Requirements	ALTER MALTE MALT WAL	N/A
G.2.2	Overload test	e at at at	N/A
G.2.3	Relay controlling connectors supplying power to other equipment	while while white	N/A
G.2.4	Test method and compliance	INLIER MALTE MALT IN	N/A
G.3	Protective devices	su et et	N/A
G.3.1 📣	Thermal cut-offs	street while white white	N/A



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Requirement + Test Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	Result - Remark	Verdict
	N 10 11 12	
	s at at all	N/A
Thermal cut-outs tested as part of the equipment as indicated in c)	not white white	N/A
Test method and compliance	ster insteam white white	N/A
Thermal links	a at at	N/A
a) Thermal links tested separately according to IEC 60691 with specifics	white white white w	N/A
b) Thermal links tested as part of the equipment	with miller while while	N/A
Test method and compliance	and the state	N/A
PTC thermistors	LIER MUSER MALIE MALIE	N/A
Overcurrent protection devices	· · · ·	N/A
Safeguards components not mentioned in G.3.1 to G.3.4	WALTE WALT MAL	N/A
Non-resettable devices suitably rated and marking provided	white white white wh	N/A
Single faults conditions	(See appended table B.4)	N/A
Connectors	With Mrs. Mrs. Mrs.	N/A
Spacings	at a state with	N/A
Mains connector configuration	2 1 1 1 1 1 1	N/A
Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	watte watter watter w	N/A
Wound components	at the state of	N/A
Wire insulation in wound components	mur mur mur m	N/A
Protection against mechanical stress	alt the state with	N/A
Endurance test	in all all an	N/A
General test requirements	et the stret with a	N/A
Heat run test	an in it	N/A
Test time (days per cycle)	white miles white wh	~ _
Test temperature (°C):	She he at at	* —
Wound components supplied from the mains	NUTER INTERIORITE WALL	√ <sup>™</sup> N/A
No insulation breakdown	and the state	N/A
Transformers	LITE WALTE WALTE WAL	N/A
Compliance method:	e at at at	N/A
Position:	MALL WALL WALL W	N/A
Method of protection	at at at i	N/A
Insulation	white white white and	N/A
	Thermal links         a) Thermal links tested separately according to IEC 60691 with specifics         b) Thermal links tested as part of the equipment         Test method and compliance         PTC thermistors         Overcurrent protection devices         Safeguards components not mentioned in G.3.1 to G.3.4         Non-resettable devices suitably rated and marking provided         Single faults conditions         Spacings         Mains connector configuration         Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely         Wound components         Wire insulation in wound components         Protection against mechanical stress         Endurance test         General test requirements         Heat run test         Test time (days per cycle)         Wound components supplied from the mains         No insulation breakdown         Transformers         Compliance method         Occurrent entert	Thermal links       a) Thermal links tested separately according to IEC 60691 with specifics         b) Thermal links tested as part of the equipment       Test method and compliance         PTC thermistors       Overcurrent protection devices         Safeguards components not mentioned in G.3.1 to G.3.4       Non-resettable devices suitably rated and marking provided         Single faults conditions       (See appended table B.4)         Connectors       Spacings         Mains connector configuration       (See appended table B.4)         Vonnectors       Spacings         Mains connector configuration       Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely         Wound components       Protection against mechanical stress         Endurance test       General test requirements         Heat run test       Itemperature (°C)         Test temperature (°C)       Wound components supplied from the mains         No insulation breakdown       Itransformers         Compliance method       Position         Position       Itransformers         Compliance method       Itransformers         Compliance method       Itransformers         Compliance method       Itransformers         Compliance field from the mains       No insulation breakdown         Transformers

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.3	Transformer overload tests	mur mur mi	N/A
G.5.3.3.1	Test conditions	Tet Tet Street	N/A
G.5.3.3.2	Winding temperatures	sur mu m s	N/A
G.5.3.3.3	Winding temperatures - alternative test method	let the state of	N/A
G.5.3.4	Transformers using FIW	and the second	N/A
G.5.3.4.1	General	et aller aller white	N/A
. it	FIW wire nominal diameter:	The the	
G.5.3.4.2	Transformers with basic insulation only	white white white	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation	Tet thet whet a	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	at the set of	N/A
G.5.3.4.5	Thermal cycling test and compliance	MUT MUT MI	N/A
G.5.3.4.6	Partial discharge test	the set set stat	N/A
G.5.3.4.7	Routine test	white all all	N/A
G.5.4	Motors	No motor used.	N/A
G.5.4.1	General requirements	Mr. Mr. m	N/A
G.5.4.2	Motor overload test conditions	att nuter of	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test	in the mine white	N/A
	Test duration (days)	In a stat	
G.5.4.5	Running overload test for DC motors	WITE WALTE WALT	N/A
G.5.4.5.2	Tested in the unit	1 A A	N/A
G.5.4.5.3	Alternative method	ULIE WALL WALL W	N/A
G.5.4.6	Locked-rotor overload test for DC motors	at at at a	N/A</td
G.5.4.6.2	Tested in the unit	in which which which	N/A
*	Maximum Temperature	a set set set	N/A
G.5.4.6.3	Alternative method	when when when	N/A
G.5.4.7	Motors with capacitors	let get get	N/A
G.5.4.8	Three-phase motors	une sure sur	N/A
G.5.4.9	Series motors	Let set ster of	N/A
	Operating voltage	un m. m. w.	
G.6	Wire Insulation	let with when with	N/A
G.6.1	General	m. m. r.	N/A
G.6.2	Enamelled winding wire insulation	t with mile mile	N/A
G.7	Mains supply cords	Mr. So. St.	N/A
G.7.1 🔊	General requirements	JER JER STE	N/A -



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Clause	Requirement + Test	Result - Remark	Verdict
	Type:	Mr. M. M.	
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):	with whet when	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	at the test of	N/A
G.7.3.2	Cord strain relief	st. when whe will	N/A
G.7.3.2.1	Requirements	t set set set	N/A
1944 1944	Strain relief test force (N):	mur mur mi	N/A
G.7.3.2.2	Strain relief mechanism failure	Tet the state	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	me me m	N/A
G.7.3.2.4	Strain relief and cord anchorage material	Tet with number of	N/A
G.7.4	Cord Entry	a m m m	N/A
G.7.5	Non-detachable cord bend protection	fet stret stret spit	N/A
G.7.5.1	Requirements	An In I	N/A
G.7.5.2	Test method and compliance	ALTER MUTE MALTE	N/A
UNLIEK W	Overall diameter or minor overall dimension, <i>D</i> (mm):	Tet thet whet	NUTEK -
at a	Radius of curvature after test (mm):	an me	
G.7.6	Supply wiring space	at antifer wh	N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire	State white white	N/A
G.7.6.2.1	Requirements	t at at	N/A
G.7.6.2.2	Test with 8 mm strand	WHITE WALTE WALT	.√ ×Ñ/A
G.8	Varistors	1 1 15	N/A
G.8.1	General requirements	NUTE NOUTE WALL N	N/A
G.8.2	Safeguards against fire	s at at a	<u>م</u>
G.8.2.1	General	the white white white	N/Å
G.8.2.2	Varistor overload test	the state of the	N/A
G.8.2.3	Temporary overvoltage test	when whe whe	N/A
G.9	Integrated circuit (IC) current limiters	at let set	N/A
G.9.1	Requirements	me me me	N/A
NUTER UNIT	IC limiter output current (max. 5A):	all all all a	5 <sup>67</sup> —
1 1	Manufacturers' defined drift	le me me m	_
G.9.2	Test Program	of the state of	N/A
G.9.3	Compliance	m m sn	N/A
G.10	Resistors	THE NUTER MUTER	N/A
G.10.1	General	me me	N/A
G.10.2	Conditioning	the state states	N/A



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-20-	EN IEC 62368-1	and the star star	
Clause	Requirement + Test	Result - Remark	Verdict
G.10.3	Resistor test	mer mer me m.	N/A
G.10.4	Voltage surge test	at the set when	N/A
G.10.5	Impulse test	Un Mu Mu Mu	N/A
G.10.6	Overload test	let get allet mile a	N/A
G.11	Capacitors and RC units	WIT THE THE	N/A
G.11.1	General requirements	- where outer unite whi	N/A
G.11.2	Conditioning of capacitors and RC units	Shi the	N/A
G.11.3 📣	Rules for selecting capacitors	alifet mitte white white	N/A
G.12	Optocouplers	the state	N/A
une un	Optocouplers comply with IEC 60747-5-5 with specifics	ster write write with a	N/A
L'IL MALIT	Type test voltage V <sub>ini,a</sub> :	et thet when while wh	
s at	Routine test voltage, V <sub>ini, b</sub> :	When we we we	
G.13	Printed boards	when when which which	"Р
G.13.1	General requirements	Approved Printed board used.	P
G.13.2 📣	Uncoated printed boards	when while while while	sn P ≤
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface	and meet when we	N/A
G.13.5	Insulation between conductors on different surfaces	alle intra inclusion	N/A
t st	Distance through insulation	the state of	N/A
and a	Number of insulation layers (pcs)	mitter mitter white white	
G.13.6	Tests on coated printed boards	1 A A A	N/A
G.13.6.1	Sample preparation and preliminary inspection	white white white white	N/A
G.13.6.2	Test method and compliance	s at at at	< <u>N/A</u>
G.14	Coating on components terminals	The main was well with	N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components	at and are and	N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance	the Aller Aller Aller a	N/A
G.15.2.1	Hydrostatic pressure test	t alt alt when we	N/A
G.15.2.2	Creep resistance test	me m m	N/A
G.15.2.3	Tubing and fittings compatibility test	ster street while while	N/A
G.15.2.4	Vibration test	The she so is t	N/A
G.15.2.5	Thermal cycling test	Alt Alt Alt Alt	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			verdict
G.15.2.6	Force test	m. m. n. t	N/A
G.15.3	Compliance	Tet lifet aller white	N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required	let aller aller aller	N/A
st st	ICX with associated circuitry tested in equipment	201 11	N/A
MAL	ICX tested separately	- aller alle and and	N/A
G.16.2	Tests	Strate A	N/A
when y	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	WALTER WALTER WALTE WALT	
incres win	Mains voltage that impulses to be superimposed on	white white white white	-
TER WALT	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	et minet wantet wantet	-
G.16.3	Capacitor discharge test	i at at	N/A
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	the state of	N/A
H.2	Method A	NALT MALL WALL WALL	N/A
H.3	Method B	At 15th 15th	N/A
H.3.1	Ringing signal	a sure sure	N/A
H.3.1.1	Frequency (Hz)	and the state of	s —
H.3.1.2	Voltage (V)	me me me	_
H.3.1.3	Cadence; time (s) and voltage (V):	stet stet when whi	~ <u> </u>
H.3.1.4	Single fault current (mA):	Mr. Mr. W.	
H.3.2 📣	Tripping device and monitoring voltage	THE NUMBER OF SOME	N/A-s
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	at not stat with	N/A
H.3.2.2	Tripping device	me m m	N/A
H.3.2.3	Monitoring voltage (V):	- Jet Jet alle and	N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	TINTERLEAVED	N/A
J.1	General	my my my m	N/A
NUTER ON	Winding wire insulation:	let tet the the	_
	Solid round winding wire, diameter (mm):	and the set	N/A
TER WALTE	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm <sup>2</sup> )	* WALTER WALTER WALTER W	N/A
J.2/J.3	Tests and Manufacturing	(See separate test report)	5°
к	SAFETY INTERLOCKS	white white white white	N/A
K.1	General requirements	at the top of	N/A

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Clause	Requirement + Test	Result - Remark	Verdic	
Clause			1 200	
	Instructional safeguard:	Mr. M. M. A.	N/A	
K.2	Components of safety interlock safeguard mechanism			
K.3	Inadvertent change of operating mode			
K.4	Interlock safeguard override			
K.5	Fail-safe	- M - T	N/A	
K.5.1	Under single fault condition	atter atter water water wat	N/A	
K.6	Mechanically operated safety interlocks	we we at at	N/A	
K.6.1	Endurance requirement	with any the second second	N/A	
K.6.2	Test method and compliance:	an it it it	N/A	
K.7 📣	Interlock circuit isolation	NUTER INITE WALT WALT	N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements	et stret stret sources an	N/A	
*	In circuit connected to mains, separation distance for contact gaps (mm):	the set set set and	N/A	
Tet	In circuit isolated from mains, separation distance for contact gaps (mm):	white white white white	N/A	
ur u st	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)	after annual suntil s	N/A	
K.7.3	Endurance test		N/A	
K.7.4	Electric strength test	and white white white wh	N/A	
L A	DISCONNECT DEVICES			
L.1	General requirements	white white white white	N/A	
L.2	Permanently connected equipment	the state of the	N/A	
L.3	Parts that remain energized	the way way way	N/A	
L.4 🛛	Single-phase equipment	at at the set	N/A	
L.5	Three-phase equipment	white where where we	N/A	
Ľ.6 💉	Switches as disconnect devices	the state state at	N/A	
L.7	Plugs as disconnect devices	Mr. Mr. M. W.	N/A	
L.8	Multiple power sources	alt out with mile	N/A	
4	Instructional safeguard:	here the second	N/A	
M	EQUIPMENT CONTAINING BATTERIES AND THE	EIR PROTECTION CIRCUITS	P S	
M.1	General requirements			
M.2	Safety of batteries and their cells	et the with with a	P	
M.2.1	Batteries and their cells comply with relevant IEC standards	Approved battery used.	P P	
M.3	Protection circuits for batteries provided within the equipment	white white white sub	P	



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Clause	Requirement + Test	Result - Remark	Verdict		
M 0.4					
M.3.1	Requirements	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P		
M.3.2	Test method	NUTER ALTER AND AND A	P		
4	Overcharging of a rechargeable battery		P		
the she	Excessive discharging	the matter water white a	P <sub>s</sub> r		
et ouet	Unintentional charging of a non-rechargeable battery	- ret ret ret al	N/A		
	Reverse charging of a rechargeable battery	my my m	N/A		
M.3.3	Compliance	(See appended table M.3)	P		
M.4	Additional safeguards for equipment containing a portable secondary lithium battery				
M.4.1	General				
M.4.2	Charging safeguards	that the set	P		
M.4.2.1	Requirements	MUT MUT MUT M	Р		
M.4.2.2	Compliance:	(See appended table M.4.2)	P		
M.4.3	Fire enclosure		N/A		
M.4.4	Drop test of equipment containing a secondary lithium battery	MITEL WAITEL WAITEL WAITE	N <sup>NL</sup> P		
M.4.4.2	Preparation and procedure for the drop test		У Р		
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference: <5%		P		
M.4.4.4	Check of the charge/discharge function	and white white white white	Р		
M.4.4.5	Charge / discharge cycle test		N/A		
M.4.4.6	Compliance	White white white white	N/A		
M.5	Risk of burn due to short-circuit during carrying	a at at at	N/A		
M.5.1	Requirement		N/A		
M.5.2 💉	Test method and compliance	at at let the	N/A		
M.6	Safeguards against short-circuits	and and and a	N/A		
M.6.1	External and internal faults	- let the the at	N/A		
M.6.2	Compliance	me me me	N/A		
M.7	Risk of explosion from lead acid and NiCd batter	ies de la	N/A		
M.7.1	Ventilation preventing explosive gas concentration	ny me me so	N/A		
NUTE WAY	Calculated hydrogen generation rate:	alt alt with with with a	N/A		
M.7.2	Test method and compliance	We will be	N/A		
AL WALL	Minimum air flow rate, Q (m <sup>3</sup> /h):	at alles miles miles wh	N/A		
M.7.3	Ventilation tests	The short of	N/A		
M.7.3.1	General	stret intret intret which	N/A		
M.7.3.2	Ventilation test – alternative 1	the second second	N/A		
un in	Hydrogen gas concentration (%)	the star will will	N/A		



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20.	EN IEC 62368-1	in the were all an	14			
Clause	Requirement + Test	Result - Remark	Verdic			
M.7.3.3	Ventilation test – alternative 2	Mur mur mer m	N/A			
INTER AL	Obtained hydrogen generation rate:	at the tree with	N/A			
M.7.3.4	Ventilation test – alternative 3	the shirt she say	N/A			
ine whi	Hydrogen gas concentration (%):	let stat state with a	N/A			
M.7.4	Marking	Mr. Mr. S.	N/A			
M.8	Protection against internal ignition from external with aqueous electrolyte	spark sources of batteries	N/A			
M.8.1	General					
M.8.2	Test method	Mur Mur Mr. M.	N/A			
M.8.2.1	General	the set when when	N/A			
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /s)	a the sound of				
M.8.2.3	Correction factors:	et aller aller and and and	the the			
M.8.2.4	Calculation of distance d (mm)		st - 1			
M.9	Preventing electrolyte spillage					
M.9.1	Protection from electrolyte spillage	1 1 A B	N/A			
M.9.2	Tray for preventing electrolyte spillage	NUTER INTERNATION MAL	N/A			
M.10	Instructions to prevent reasonably foreseeable misuse	at with anythe	LI <sup>ST</sup> P <sub>N</sub>			
1. 10	Instructional safeguard:	See user manual for detail.	<u>_</u> Р _			
N N	ELECTROCHEMICAL POTENTIALS	en une intra mail an	N/A			
t st	Material(s) used:	the state of	*			
0.0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES					
At .	Value of <i>X</i> (mm):	s as to the	1 Alt			
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	State on the second	N/A			
P.1 3	General	is at at at	N/A			
P.2	Safeguards against entry or consequences of en	try of a foreign object	N/A			
P.2.1	General	- It let bet a	N/A			
P.2.2	Safeguards against entry of a foreign object	me me me	N/A			
NUTER .	Location and Dimensions (mm):	at at and and	- NITE			
P.2.3	Safeguards against the consequences of entry of a foreign object	in which we the	N/A			
P.2.3.1	Safeguard requirements	the work when when	N/A			
TEK WALTE	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	A watter watter watter w	N/A			
+ MALIEK	Transportable equipment with metalized plastic parts:	stret maret maret white	N/A			
P.2.3.2	Consequence of entry test:	Mr. S. A. A.	N/A			
P.3 🔊	Safeguards against spillage of internal liquids	the ste with which	N/A			

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Clause	Requirement + Test	Result - Remark	Verdic		
		NUT NUT NUT WAT	and the second s		
P.3.1	General	W. W.	N/A		
P.3.2	Determination of spillage consequences	with antifer white white	N/A		
P.3.3	Spillage safeguards		N/A N/A		
P.3.4	Compliance				
P.4	Metallized coatings and adhesives securing part	S	N/A		
P.4.1	General	et instream white white whi	N/A		
P.4.2	Tests	- <u> </u>	N/A		
Mr. 1	Conditioning, T <sub>C</sub> (°C):	white white white white	-10-		
det .	Duration (weeks):	a at at at	Jak -		
<u>a</u> 🥠	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A		
Q.1	Limited power sources	(See appended table Q.1)	N/A		
Q.1.1	Requirements	the strike white white wi	N/A		
* Tet	a) Inherently limited output	e at alt alt a	N/A		
2m	b) Impedance limited output	white white when white	N/A		
J. S. E.	c) Regulating network limited output	at at the state	N/A		
to a	d) Overcurrent protective device limited output	unit white when we	N/A		
STER ST	e) IC current limiter complying with G.9	at the state	N/A		
Q.1.2	Test method and compliance	(See appended table Q.1)	N/A		
PER WALTE	Current rating of overcurrent protective device (A)	WALTE WALTE WATTE WA	N/A		
Q.2	Test for external circuits – paired conductor cable	NUTER WATER WAITER WAIT	N/A		
1.t.	Maximum output current (A)	i s s st	N/A		
me m	Current limiting method:	with antic and and	100- 1		
R	LIMITED SHORT CIRCUIT TEST	1 A A A	~ <sup>©</sup> N/A_		
R.1	General	With MALIN WALL WALL W	N/A		
R.2	Test setup	and the set of	N/A		
- 1m	Overcurrent protective device for test	were all all all all			
R.3	Test method	at at at 5	N/A		
240-4	Cord/cable used for test	with with with			
R.4	Compliance	A 10 10 50	N/A		
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	the man was sure	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				
5 Jul	Samples, material	1 10 50 5	<u>لا م</u>		
4 <sup>10</sup>	Wall thickness (mm)	Mus mus mus mus			
500	Conditioning (°C)	A A A S	S.S.E.F.		



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Clause	Requirement + Test	Result - Remark	Verdict		
			all set		
	Test flame according to IEC 60695-11-5 with conditions as set out	with with the state	N/A		
m n	- Material not consumed completely	MITE WALL WALL WALL	N/A		
Set S	- Material extinguishes within 30s	at at set set	N/A		
2m	- No burning of layer or wrapping tissue	and which which where a	N/A		
S.2	Flammability test for fire enclosure and fire barrier integrity				
	Samples, material	mer mer mer m			
NUTE	Wall thickness (mm):	Let set state with	Maine		
	Conditioning (°C):	mi m m			
S.3	Flammability test for the bottom of a fire enclosu	ire the set of the set	N/A		
S.3.1	Mounting of samples	White a state	N/A		
S.3.2	Test method and compliance	Set outer white would be	N/A		
t st	Mounting of samples:	in the st	st - 1		
m	Wall thickness (mm):	mite white white whi	- m		
S.4 🖉	Flammability classification of materials	LA A A	N/A		
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power exceeding 4 000 W				
ner on	Samples, material	at anti- white	1		
de de	Wall thickness (mm)		. et		
Mer	Conditioning (°C)	Internation which which wh	- The		
T	MECHANICAL STRENGTH TESTS	a at the t	е		
T.1	General	Martin Martin Martin Water	Р		
T.2	Steady force test, 10 N:	a to the the	N/A		
Т.3	Steady force test, 30 N:	with which which which	N/A		
т.4	Steady force test, 100 N:	(See appended table T.4)	P		
Т.5	Steady force test, 250 N:	when the start of	N/A		
T.6	Enclosure impact test	the set set when	N/A		
	Fall test	me me me	N/A		
NNLIG V	Swing test	The state white white	N/A		
Т.7	Drop test:	(See appended table T.7)	Р		
T.8	Stress relief test	(See appended table T.8)	P N		
T.9	Glass Impact Test:	i i i it	N/A		
T.10	Glass fragmentation test	The MALIER MALIE WALL WI	N/A		
- 5 <sup>th</sup>	Number of particles counted	A A A A	N/A		
T.11	Test for telescoping or rod antennas	MALT WALL WITH WITH	N/A		
de la	Torque value (Nm)	A A A A	N/A		



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-24.	EN IEC 62368-1	with the she she	-42-	
Clause	Requirement + Test	Result - Remark	Verdic	
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION			
U.1 👋	General	intit white white white	N/A	
det d	Instructional safeguard :	A A let fit	Ň/A	
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A	
U.3 了	Protective screen	t at let set is	N/A	
v	DETERMINATION OF ACCESSIBLE PARTS	white white white white	N/A	
V.1	Accessible parts of equipment	alt stat with with	N/A	
V.1.1	General	NUT MUT MUT IN	N/A	
V.1.2	Surfaces and openings tested with jointed test probes	stret watter watter watter	N/A	
V.1.3	Openings tested with straight unjointed test probes	at let let stat a	N/A	
V.1.4	Plugs, jacks, connectors tested with blunt probe	white white and the	N/A	
V.1.5	Slot openings tested with wedge probe	the state state with	N/A	
V.1.6	Terminals tested with rigid test wire	Mur Mur Mur M	N/A	
V.2	Accessible part criterion	the set state with	N/A	
X Neter and	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)			
et 1	Clearance:	(See appended table X)	<∕∽N/A <	
A Au	CONSTRUCTION REQUIREMENTS FOR OUTDOO	RENCLOSURES	N/A	
Y.1 🦽	General	a at at at	N/A	
Y.2	Resistance to UV radiation	white white white white	N/A	
Y.3	Resistance to corrosion	at at let set	N/A	
Y.3	Resistance to corrosion	with most with with a	N/A	
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by	and and the mainter white wh	N/A	
Y.3.2	Test apparatus	the states	N/A	
Y.3.3	Water – saturated sulphur dioxide atmosphere	white white whe whe	N/A	
Y.3.4	Test procedure	at let let set	N/A	
Y.3.5	Compliance	inter white white white	N/A	
Y.4	Gaskets	at let set set	N/A	
Y.4.1	General	the man man with a	N/A	
Y.4.2	Gasket tests	at the tilt will all	N/A	
Y.4.3	Tensile strength and elongation tests	me me m m	N/A	
NUTE	Alternative test methods:	THE LIFE NUTE MUTE	N/A	
Y.4.4	Compression test	mer me me	N/A	
Y.4.5	Oil resistance	A AT AT AT	N/A	



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	EN IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			
Y.4.6	Securing means	white white with	N/A			
Y.5	Protection of equipment within an outdoor enclosure					
Y.5.1	General	she we we a	N/A			
Y.5.2	Protection from moisture	let set when we	N/A			
1 A	Relevant tests of IEC 60529 or Y.5.3	an an a	N/A			
Y.5.3	Water spray test	Et allet allet white	N/A			
Y.5.4	Protection from plants and vermin	Mr. Mr. M.	N/A			
Y.5.5	Protection from excessive dust	with mith with	N/A			
Y.5.5.1	General	Nº VI At	N/A			
Y.5.5.2	IP5X equipment	white must white white	N/A			
Y.5.5.3	IP6X equipment	i stata	N/A			
Y.6	Mechanical strength of enclosures	2 Stranger Martin March	N/Å			
Y.6.1	General	s at at at	N/A			
Y.6.2	Impact test	white white white	N/A			

			EN I	EC 62368-1			
Clause	Requirement	: + Test	white	Resu	t - Remark	to the s	Verdict
(Audio		PEAN GROUP	IE( DIFFEREN	T TO TEST REP C 62368-1 NCES AND NAT technology equi	IONAL DIFF	ERENCES 1: Safety require	ements)
en les.	the as			368-1:2020+A11	and the	WALL WALL	me n
Attachmer	nt Form No		EU_GD_IE	C62368_1B_II	- Set	LIEK MUTER IN	LIET WAL
Attachmer	nt Originator .		Nemko AS				
	Un - M			09-22			
	filt filt	IL WILL	Jun 1	h de	ification of F	Electrical Equip	ment
(IECEE), G	eneva, Switz	erland. All rig	hts reserve	ed.			.dr
at white			10 6		et white a	NUTE WALLY	n - m
		clauses, notes 62368-1:2014		ures and annexe d "Z".	es which are a	additional to	Set -
	with their corresponding European publicationsAnnex ZB (normative)Special national conditionsAnnex ZC (informative)A-deviationsAnnex ZD (informative)IEC and CENELEC code designations for flexible cords					NALTEX N	
TEX	Delete all the "country" notes in the reference document (IEC 62368-1:2014)           according to the following list:						et
	0.2.1	Note	1	Note 3	4.1.15	Note	-sul-
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	WALTER .
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	were an
	5.5. <mark>2</mark> .1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	TEX WILL
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	* white
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	NNLTEX 3
#### Refe

	EN IEC 62368	3-1	
Clause	Requirement + Test	Result - Remark	Verdict
	<ul> <li>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):</li> <li>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;</li> <li>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;</li> <li>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.</li> <li>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.</li> </ul>	et worth worthet worthet	
5.4.2.3.2.4	<ul> <li>Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.</li> </ul>	Tet white white white	N/A
10.2.1	Add the following to <sup>c)</sup> and <sup>d)</sup> in table 39: For additional requirements, see 10.5.1.	WALTER WALTER WALTER	N/A

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-51		
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EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Add the following after the first paragraph:         For RS 1 compliance is checked by         measurement under the following conditions:         In addition to the normal operating conditions,         all controls adjustable from the outside by         hand, by any object such as a tool or a coin,         and those internal adjustments or presets         which are not locked in a reliable manner, are         adjusted so as to give maximum radiation         whilst maintaining an intelligible picture for 1 h,         at the end of which the measurement is made.         NOTE Z1 Soldered joints and paint lockings         are examples of adequate locking.         The dose-rate is determined by means of a         radiation monitor with an effective area of 10         cm², at any point 10 cm from the outer surface         of the apparatus.         Moreover, the measurement shall be made         under fault conditions causing an increase of         the high-voltage, provided an intelligible picture         is maintained for 1 h, at the end of which the         measurement is made.         For RS1, the dose-rate shall not exceed 1         µSv/h taking account of the background level.         NOTE Z2 These values appear in Directive		
10.6.1	<ul> <li>96/29/Euratom of 13 May 1996.</li> <li>Add the following paragraph to the end of the subclause:</li> <li>EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.</li> </ul>	antifer antifer antifer antifer	N/A
10.Z1	Add the following new subclause after 10.6.5.         10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz         The amount of non-ionizing radiation is regulated by European Council         Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).         For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz).         For hand-held and body-mounted devices,		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.		N/A

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EN IEC 62368-1				
Clause	Requirement + Test Res	sult - Remark	Verdict	
Bibliograph		MULT MILL MILL S		
y which wh	Add the following notes for the standards indicated:		IE MILE	
	IEC 60130-9 NOTE Harmonized as EN 60130		20	
	IEC 60269-2 NOTE Harmonized as HD 60269		t Set	
	IEC 60309-1 NOTE Harmonized as EN 60309		m. n	
	IEC 60364 NOTE some parts harmonized ir		15 1	
	IEC 60601-2-4 NOTE Harmonized as EN 60601		an an	
	IEC 60664-5 NOTE Harmonized as EN 60664	-5.	1 A	
	IEC 61032:1997 NOTE Harmonized as EN 61032		in mile	
	IEC 61508-1 NOTE Harmonized as EN 61508	-1. m an an a	24	
	IEC 61558-2-1 NOTE Harmonized as EN 61558	-2-1.	1 . S. F.	
	IEC 61558-2-4 NOTE Harmonized as EN 61558	-2-4.	24. 1	
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.			
	IEC 61643-1 NOTE Harmonized as EN 61643-1.			
	IEC 61643-21 NOTE Harmonized as EN 61643-21.			
	IEC 61643-311 NOTE Harmonized as EN 61643-311.			
	IEC 61643-321 NOTE Harmonized as EN 61643-321.			
	IEC 61643-331 NOTE Harmonized as EN 61643	-331.	SE STER	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)			
4.1.15	Denmark, Finland, Norway and Sweden Nor	export to such counties	N/A	
	To the end of the subclause the following is added:		Tet -	
	Class I pluggable equipment type A intended		Wer mar	
	for connection to other equipment or a network shall, if safety relies on connection to reliable		+ 10	
	earthing or if surge suppressors are connected		No mar	
	between the network terminals and accessible			
	parts, have a marking stating that the		SE STER	
	equipment shall be connected to an earthed <b>mains</b> socket-outlet.		201	
	The marking text in the applicable countries		t+	
	shall be as follows:		The an	
	In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes		at a	
	en stikkontakt med jord som giver forbindelse til stikproppens jord."		NUS IC MAL	
	In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"		LIFE WALTER	
	In <b>Norway</b> : "Apparatet må tilkoples jordet stikkontakt"		et mutet	



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an man	EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4.7.3	United Kingdom	NUT WALF WAT WIT	N/A	
WALTER N	To the end of the subclause the following is added:	set stret wiret white	WINLIEL WALFEL W	
NUTEX WIN	The torque test is performed using a socket- outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	watter water watter	NALITEX MITEX MIL	
5.2.2.2	<b>Denmark</b> After the 2nd paragraph add the following: A warning (marking <b>safeguard</b> ) for high <b>touch</b>	White white white w	N/A	
No. 10t	current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	stre white white white	with the	

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EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1 and Annex	Finland and Sweden To the end of the subclause the following is	Mill which which we	N/A
G	added: For separation of the telecommunication	and another another and and	t jet
	network from earth the following is applicable: If this insulation is solid, including insulation	watter water water water	mer m
	forming part of a component, it shall at least consist of either	whet muset muset would	White whi
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	and writes writes writes w	NITEX WALTER
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	a white white white whi	EX WALTER D
	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	WALLAK WALLAK WALLA	Whitek wh
	and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Tet white white white you	TE MALTER
	• 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), and	Et wards would	et white w
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	south south south south	NUTER MUTER
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	en set sint wind and	Set white
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	white white white	Initet wh
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	and an and and and and	NALTER WALT
	• the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	the state when a she was	et whitet
	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.	anter anotes anotes anotes	W LIFE WAS



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	EN IEC 62368	- and and an	24
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line- to-line voltage (230 V).	The super super superior	N/A
5.5.6	Finland, Norway and SwedenTo the end of the subclause the following is added:Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	AND	N/A
5.6.1	DenmarkAdd to the end of the subclauseDue to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket- outlets the protection for pluggable equipment type A shall be an integral part of the equipment.Justification:In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	A ANTICE ANTICE ANTICE ANTICE	N/A
5.6.4.2.1	Ireland and United KingdomAfter the indent for pluggable equipment typeA, the following is added:- the protective current rating is taken to be13 A, this being the largest rating of fuse usedin the mains plug.	antifer and a south and	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	and and an inter an inter a	N/A
5.7.5	DenmarkTo the end of the subclause the following is added:The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	and an inter an inter	N/A

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s			

EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdic
5.7.6.1	Norway and Sweden	and intranti with	N/A
	To the end of the subclause the following is		the state
	added:	at at set se	and and
	The screen of the television distribution system	in anti mar mar	20 25
	is normally not earthed at the entrance of the		at st
	building and there is normally no equipotential	t let set see	white white a
	bonding system within the building. Therefore	and any and a	$n \sim \infty$
	the protective earthing of the building		at at .
	installation needs to be isolated from the	at the terms	the man we
	screen of a cable distribution system.	inthe way with an	20.
	It is however accepted to provide the insulation		+ 1+ 1
	external to the equipment by an adapter or an	10 10 50 50	and and
	interconnection cable with galvanic isolator,	in the she she	24. 2.
	which may be provided by a retailer, for	the second second	at at
	example.	of the set set	and and
	The user manual shall then have the following	when when when	26 2
	or similar information in Norwegian and		15 15
	Swedish language respectively, depending on	AP AP AP	with all all
	in what country the equipment is intended to be	and more me in	
	used in:		at at a
	"Apparatus connected to the protective earthing	at at set as	in the second
	of the building installation through the mains	inter when when when	20. 2.
	connection or through other apparatus with a		L 10 10
	connection to protective earthing – and to a	at the set are	and white
	television distribution system using coaxial	se ner ner m	20. 2.
	cable, may in some circumstances create a fire		the state
	hazard. Connection to a television distribution	A LAT A LATE	inter when y
	system therefore has to be provided through a		20. 20.
	device providing electrical isolation below a		at at .
	certain frequency range (galvanic isolator, see	10 AV 10 AV	in and an
	EN 60728-11)"	when when when we	1999 - 1997 - 19
	NOTE In Norway, due to regulation for CATV-		* # 1
	installations, and in Sweden, a galvanic isolator	the star star with	intra wint
	shall provide electrical insulation below 5 MHz.	in the the	20. 2.
	The insulation shall withstand a dielectric		1. 15
	strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1	at the the the	inter where
	min.	and she we	20. 20
	Translation to Norwegian (the Swedish text will	and the	it lit
	also be accepted in Norway):	- Alt Alt Alt .	ner in a
	"Apparater som er koplet til beskyttelsesjord via	when when when it	
	nettplugg og/eller via annet jordtilkoplet utstyr –		15 15 1
	og er tilkoplet et koaksialbasert kabel-TV nett,	Alt offer offer all	in the second
	kan forårsake brannfare. For å unngå dette	inter more and m	100 C
	skal det ved tilkopling av apparater til kabel-TV		t st st
	nett installeres en galvanisk isolator mellom	the the the stre	ant ant
	apparatet og kabel-TV nettet."	when when when	
	Translation to Swedish:	1 A A	15 15
	"Apparater som är kopplad till skyddsjord via	the star star	inthe write of
	jordat vägguttag och/eller via annan utrustning	with the start	2. 2.
	och samtidigt är kopplad till kabel-TV nät kan i	1	it it
	vissa fall medfőra risk főr brand. Főr att undvika	THE STATE STATE	The state of
		star shar she sh	
	detta skall vid anslutning av apparaten till		at at it
	kabel-TV nät galvanisk isolator finnas mellan	set set set s	and and
20	apparaten och kabel-TV nätet.".	at the the	10. 0

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EN IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdic
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touc current is required if the touch current or the protective current exceed the limits of 3,5 mA	i it it let	N/A
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of <b>direct</b> <b>plug-in equipment</b> , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32. If the equipment does not pass these tests, suitable protective devices shall be included a 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	A.	N/A
G.4.2	<ul> <li>Denmark To the end of the subclause the following is added: Supply cords of single phase appliances havir a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2 D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 o EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated curre of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. 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, D 1-5a or DK 1-7a</li></ul>	a nutres whites whi	

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0	EN IEC 62368	at at at a	
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom To the end of the subclause the following is added: 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 while while while	
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	and an inter an inter and an inter an in	
G.7.1	IrelandTo the first paragraph the following is added:Apparatus which is fitted with a flexible cable orcord shall be provided with a plug inaccordance with Statutory Instrument 525:1997, "13 A Plugs and Conversion Adapters forDomestic Use Regulations: 1997. S.I. 525provides for the recognition of a standard ofanother Member State which is equivalent tothe relevant Irish Standard	watter watter watter watter	N/A
G.7.2	Ireland and United KingdomTo the first paragraph the following is added:A power supply cord with a conductor of 1,25mm² is allowed for equipment which is ratedover 10 A and up to and including 13 A.	White white white w	N/A



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	EN IEC 62368-1									
Clause	Requirement + Test	Result - Remark	Verdict							
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN	1) which which which which								
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 exceed 40 kV, authorization is required, or applicat of type approval (Bauartzulassung) and marking. Justification:		N/A							
	German ministerial decree against ionizing radiation (Röntgenverordnung), in force sin 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address:		Whitek whitek w							
	Physikalisch-Technische Bundesanstalt, Bundesallee 100,	MITE MAILER WALLER WALLEY	inthe solution white							
	D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	Let milet while while wh	A NITE MITEL							



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5	EN IEC 62368-1							
2	Clause	Requirement + Test	Result - Remark	Verdict				

Supply	Location (e.g.	Test conditions		Р	arameters		ES
Voltage	circuit designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	- Clas
5VDC	Input circuit	Normal	5.0V		14 - 14	C DC	ES1
		Abnormal:	Inter a	in - m	an an	24 - 24 V	
	St water water	Single fault –U2 pin 3-4 SC <del>/OC</del> :	0	iet nir	y what it	NICE WITE	
50 .5	et intife annul a	Normal	4.2V	- *	7	DC	S.C.
4.2VDC	Battery	Abnormal	The state	NEL	mer - m	m. m	ES
	Dattery	Single fault – Q4 pin G-D SC <del>/OC</del> :	0,05	مى مەنبى	JICK- NITE	white white	

1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.

2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	TABLE: Working v	oltage measuremen	it		t it	N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments	
the main	m su su		.dS.		This with	MUL
E A	at at at	and the space of	m -2m -	n <u>-</u> n	- 1 0	6 At
Suppleme	ntary information:	*	at at	State States	NUT MAL	with .

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics							
Method		.: ISO 306 / B50	1 A				
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softer	oftening (°C)			
The set set set	N E MUTE WAL WAY	211. 21.	at .	the state			
- me me me		THE NUTE MUTE	white whit	- m			
Supplementary information:	the instant when we we	and the second s	at a	t set			

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	pression diameter	(mm)	:	≤ 2 m	Wry Wry W	×	
Object/Part	No./Material	Manufacturer/trademark	Thickness (mm)				oression eter (mm)
+ 1	. STER STER I	The me - me m			L # #	<	the set
	1. 24 2.	1 A - A - 5	5 <u>_</u> 5 <u>5</u>	NILL'S	white white	-4/1-2	-2m
Supplement	ary information:	Martin Martin Martin		4	at at	.et	Ser.



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Clause	Requirement + Test	Result - Remark	Verdict				

5.4.2, 5.4.3	B TABLE: I	Minimum Cl	earance	es/Creepag	ge distance					N/A	
Clearance creepage c (cr) at/of/be	distance	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (Hz)	Required cl (mm)	cl (mm)	E.S. (V)			cr (mm)	
	A	5 <sup>64</sup> - 5 <sup>6</sup>		I III	m m.	$\overline{z}_n$				+ - %	
1) Only for		above 30 kH:		. (V) when	5.4.2.4 appli	ed)	WALT	NINEL .	white NUTE	- white	
5.4.4.2	TABLE:	Minimum di	stance t	hrough in	sulation	m.	241-	20. 2	J.	N/A	
Distance through insulation (DTI) at/of		ation	Peak voltage (V)		Insul	Insulation		Required DTI (mm)		Measured DT (mm)	
thet out on the work of		mer and			1	* # 1		50th 550 .		MITE MAL	
Supplemen	ntary informa	ation:	. Set	· "Tet	WALL WAL	an.	-an-	-24	24.	4	
5.4.4.9	TABLE: S	Solid insula	tion at f	requencie	s >30 kHz			t stiller	J. S.	N/A	
Insulation r	material		E <sub>P</sub>	Frequenc (kHz)	y K <sub>R</sub>		ness nm)	Insulation	۱	V <sub>PW</sub> (Vpk)	
70. 40				1 - 3	e nu	$v^{2}$ $z$	5 × 1	m m			
Supplemen	ntary informa	ation:	100			10-	1	1 <sup>10</sup> . 1	din .	NUTER M	
5.4.9	TABLE:	Electric stre	ngth tes	sts st	Sec. 1	2	20	241	4	N/A	
Test voltage applied between:				Voltage shap rge, Impulse, DC, etc.)	e, Impulse, AC,		Test voltage (V)		eakdown ⁄es / No		
-m v	h. h.		A	. et	Set -Set	NN-SP	white-	mer 1	m	$\tau_{0}$	
- 1	564 .56	INLIE N	12 3	n. In	<u></u>			- 15-	de-	-500	
Supplemer	ntary inform	ation:		A 18	5	5	5	ne sh	×	24. 2	

5.5.2.2	5.2.2 TABLE: Stored discharge on capacitors							
Location		Supply voltage (V)	Operating and fault condition <sup>1)</sup>	Switch position	Measured voltage (Vpk)	ES Class		
- Jier	MILL WAL	mr - m		# 1	t state is	Let Inthe		
Suppleme	ntary inforn	nation:	NUTE MALT MAL	me me	20. 20			
X-capacito	ors installed	for testing:						
🗌 bleedir	ig resistor r	ating:						
ICX:								
1) Norma	La sella de la sel	condition (e.g., norma	a de	1. 00 July		N. AN		

5.6.6	TABLE: Resistance of protective conductors and terminations							
Location		Test current	Duration	Voltage drop	Re	esistance		
LOCATION		(A)	(min)	(V)		(Ω)		

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W. Mur	my my my	EN IEC 62368	-1 state much much	WALL WAL	m
Clause	Requirement + Test	which with	Result - Remark	- Ve	erdict

me me m	t at	At Stat	NUTER MUTER	untite white w	Un mar 1
	18 S	N 30 1	S		1. 1.

Supplementary information:

5.7.4	TABLE:	Unearthed access	sible parts			ner an	N/A
Location		Operating and	Supply Voltage (V)	Parameters			ES
		fault conditions		Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	class
the strange	in m	201 201		5 <u>5</u> 4 50	- NUTE INTE	Nr22	mr.
Supplemen Abbreviatio	· ·	nation: hort circuit; OC= op	en circuit	when the	Tet stret	WITEK N	NUTEK N

5.7.5	TABLE: Earthed accessi	ble conductive part	-10, -1-	1	N/A
Supply vol	tage (V)	I A At S	the suffer out	NALL M	_
Phase(s) .		[] Single Phase; [] Three F	hase: [] Delta	[]Wye	
Power Dist	tribution System:		□ IL STORE STORE	when whe	
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comn	nent
- ,+ ,		NTE SUCT N. N	- <u>Sn</u>	-	it i
Suppleme	ntary Information:		at a star	CE. MARTIN	we me

5.8	TABLE: Backfeed safeguard in battery backed up supplies							
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class	
- mit m	is an	w.	ar - at all	t zet .	Set - Set	INTER NAT		
Cumplanaanta	with the features	htinn.						

Supplementary information:

Abbreviation: SC= short circuit, OC= open circuit

Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Circuit for 5Vdc input	Normal operation	5.0	0.076	0.38	After 3S	PS1
Circuit for 5Vdc input	Single fault –U2 pin 3-4 SC	50 <sup>10</sup> 0 50 <sup>10</sup>	0	0	After 3S	PS1
Battery	Normal operation	3.7	0.7	2.59	After 3S	PS1
Battery	Single fault –R17 SC	3.5	0.8	2.80	After 3S	PS1
Battery cell	Normal operation	3.0	1.6	4.80	After 3S	PS1

Abbreviation: SC= short circuit; OC= open circuit

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



6.2.3.1	TABLE: Determin	nation of Arcing PIS			N/A S
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
74 15	Att Set	Tet out and a south	me the m		15 L
Supplemen	tary information:				

6.2.3.2 TABLE: Deter	mination of resistive PIS		N/A
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No
1 1 1 S	the state with which we		
Supplementary information: Abbreviation: SC= short cire		white white white	white white

8.5.5 TABLE: High	pressure lamp	at at at	NUTER INLIER NO	N/A S
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
State of the state of the state	-		1 <del>4</del>	JIEL JIE
Supplementary information	the set with	at intre- white white	white sum	The so

9.6	TABLE: 1	Temperatu	re measur	ements fo	r wireless	power tra	nsmitters	40.	N/A
Supply volta	age (V)			:	- <i>i</i> t	At .	JEX JE	A INLIER	
Max. transm	nit power c	of transmitte	ər (W)	: Nut	mer 1	n m	2m		
			eiver and contact		eiver and contact		ver and at of 2 mm	with recei distance	ver and at of 5 mm
Foreign o	objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
- 50	LIEK INLI	- NULLE	Jun 1	w - w		74		d	J. T.
Supplement	ary inform	ation:	de s	JEK JI	MALTER	white w	in me	n.	20. 1



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5.4.1.4,TABLE: Temperature measurements9.3, B.1.5,B.2.6								
Supply voltage (V)		:	5VDC	4.2VDC	STER- NET	S INTIC	_	
Ambient temperature during	test T <sub>amb</sub> (°C	;):	40.0	40.0		7.		
Maximum measured temper	ature <i>T</i> of pa	art/at:		Allowed T <sub>max</sub> (°C)				
PCB near U1	2 20	1	54.1	50.6	and the second	LIE - NUL	130	
PCB near Q4	J 53.5 J	48.5		+ - A	130			
Surface of motor	20		43.4	42.5	minter and	WT-L'	Ref.	
Surface of battery package	INFIE NA	19 - S	42.2	41.2			Ref.	
Internal enclosure		* *	43.5	41.7	The Mult	mr n	Ref.	
at whet whet white	Inter Mate	_∿^∩A	just to 25°C	1 A	t et	de la	Set Set	
Screen display	to the	, de	28.3	27.3	Nº2 .	m - m	48	
External enclosure	in which	m	28.1	27.0	, zt	1 <sup>64</sup> - 5 <sup>6</sup>	48	
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω	$t_2 (°C)$	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class	
E. M. A.			Star Star		Love.	m.	1 m	
Supplementary information:						. At	Set St	



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B.2.5	Т/	ABLE: Inpu	it test					P <sup>+</sup>
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5V	DC	0.051	0.065	0.255	W - W	t	UNLIFER WAY	Charging condition with empty battery
4.2V	DC	0.063	0.090	0.265	Whitek whitek	untitet un	A MALTER	Discharging condition with fully charged battery, normal work.

TABLE: Abnormal operating and fault condition tests B.3, B.4 Ρ Ambient temperature T<sub>amb</sub> (°C) .....: 40.0°C Power source for EUT: Manufacturer, model/type, outputrating...: ---\_\_\_\_ Condition Component No. Supply Test Fuse no. Fuse Observation voltage time current (V) (A)



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Motor	Short circuit	4.2VDC	7hours	ounister of	0.026	After short circuit, unit normal working, motor cannot work. No damage, no leakage, no explosion, no hazard.
R16 (B+ to P-)	Short circuit	5VDC	7hours	LIFE WAY	0.053	After short circuit, unit normal working. No damage, no leakage, no explosion, no hazard.
R17 (B- to P-)	Short circuit	4.2VDC	7hours	wherek	0.066	After short circuit, unit normal working. No damage, no leakage, no explosion, no hazard.
D1	Short circuit	5VDC	10mins	INVIEE M	0.001	After short circuit, unit shut down immediately, recoverable. No damaged, no leakage, no explosion, no hazard.
U2 pin3-4	Short circuit	5VDC	10mins	Mairek	0.001	After short circuit, unit shut down immediately, recoverable. No damaged, no leakage, no explosion, no hazard.
Q4 G-D	Short circuit	4.2VDC	10mins	ur <sup>el</sup> et sur	0.001	After short circuit, unit shut down immediately, recoverable. No damaged, no leakage, no explosion, no hazard.
D2	Short circuit	4.2VDC	10mins	WT TEK	0.001	After short circuit, unit shut down immediately, recoverable. No damaged, no leakage, no explosion, no hazard.

Supplementary information:

M.3	TABLE: Protection circuits for batteries provided within the equipment						
Is it possil	ble to install the b	the battery	sible to install in a reverse position	—			
				Char	ging		
Equipment Specification			Voltage (V)		Current (A)		
		L at	5.0	WITER WIT	0.051		
				Battery spe	ecification		
		Non-recharge	able batteries	Rechargeable batteries			
			Discharging Unintentional		arging	Discharging	Reverse
Manufacturer/type		current (A) charging current (A)		Voltage (V)	Current (A)	current (A)	charging current (A)
341423	w. m. n		1 - A	4.2	0.051	0.063	in the

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the more	The she was a	EN IEC 62368-1	water water water
Clause	Requirement + Test	Result - Remark	Verdict

Specified bar	ttery temperat	ture (°C)			10 10	40.0°	C 497
Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observation
R16	SC	Charge mode	7hours	Surface of battery: 42.3°C (ambient :40.0°C)	0.053	4.2V	The charging voltage does not exceed 4.2 <sup>v</sup> and the battery current does not exceed 0.09A
R17	SC	Discharge mode	7hours	Surface of battery: 41.4°C (ambient :40.0°C)	0.066	4.2V	The discharging voltage does not exceed 4.2V and the battery current does not exceed 0.09A

Supplementary information:

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

M.4.2		TABLE: Charging safeguards for equipment containing a secondary lithium battery					
Maximum	specified	charging voltage	ə (V)	<u></u>	.: 4.2	unite while wh	
Maximum	specified	charging curren	t (A)	- 20 - 20	.: 0.09	A At A	
Highest s	pecified ch	arging temperat	ture (°C)		.: 45	the water water	
Lowest sp	ecified cha	arging temperat	ure (°C)	<u></u>	.: 0	et set set	
Battery		Operating Measurement			Observatio	n	
manufacturer/type		and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
341423		Normal operation	4.2	0.051	Surface of battery: 42.2°C (ambient: 40.0°C)	The charging voltage doe not exceed 4.2V and the battery current does not exceed 0.09A	
		R16 SC 4.2 0.053 Surface of The ch battery: not exc 42.3°C battery		not exceed 4.2V an	The charging voltage does not exceed 4.2V and the pattery current does not exceed 0.09A		

Supplementary information:

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



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Clause	Requirement + Test	Result - Remark	Verdict				

Q.1 🖉	TABLE: Circuits intended for interconnection with building wiring (LPS)						N/A
Output Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub> (A)		S (VA)	
				Meas.	Limit	Meas.	Limit
m		*	Jet Thie	m ring	m	n 1	-20
4 <u>5</u> 4	- NIE MIT MAL	an an			* - #	<u></u>	J

T.2, T.3, TABLE T.4, T.5	: Steady force to	est	TER WALTER	mure n	ner uni	N P	
Part/Location	Material	Thicknes (mm)	S Probe	Force (N)	Test Duratior (s)	n Observation	
Enclosure (T.4)	Plastic	Min.1.5	N EL MUTE	100	5	There is no crack, no damaged, no hazard.	
Supplementary inform	nation:	- m - w		A	at a	of the the	
T.6, T.9 TABLE	: Impact test	t at s	Set NITE.	In The M	in mar	N/A	
Location/part	Ν	Material		Height (mm)		Observation	
74 A	- 8	an men	1	1	-	at at a	
Supplementary inform	nation:	A AF	1.00 5	an Je	and an	pris when when	
T.7 TABLE	: Drop test	with which a	me m	14	4	- P.A	
Location/part	Ν	Material		Height (mm)		Observation	
Top surface of enclos	sure	Plastic		1000		There is no crack, no damaged, no hazard.	
Side surface of enclo	sure	Plastic		1000	There is damage	no crack, no d, no hazard.	
Bottom surface of enclosure	NUTER MALTER	Plastic		1000		There is no crack, no damaged, no hazard.	
Supplementary inform	nation:	A At	5 <sup>64</sup> .5 <sup>6</sup>	NUT	In strange	er me m	
T.8 TABLE	Stress relief te	est 💦 🔹	h. 24			A PA	
Location/Part	Material	Thickness (mm)	Oven Temperature (°C)		Duration (h)	Observation	
Enclosure	Plastic	Min.1.5	70	LIEK MAL	et 7 ret	No reduction the cl. and cr.	
Supplementary inform	nation:	men me	24 24		A	the state of	
X TABLE	: Alternative me	ethod for deter	mining minin	num clear	ances dis	tances N/A	
Clearance distanced	between: Peal	en: Peak of working voltag (V)		ge Required cl (mm)		Measured cl (mm)	
- , ,,	at at _	TEX INTE N	NET WALL WIT WIT				
Supplementary inform	nation:		1 A	de la	de de	the street with	

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4.1.2	TABL	E: Critical compo	onents information			,⊘ <sup>+</sup> P <sup>+</sup>	
Object / part No.		Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>	
Plastic enclosure		FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AG15E1	HB, 60°C, min.thickness: 1.5mm	UL 94, UL746	UL E162823	
Motor		SHENZHEN KUNPENGDA ELECTROMEC H A NIC CO., LTD	KPD-FLAT-1020	DC3.0V, 80mA Max	EN IEC 62368-1	Test with appliance	
LCD panel		SHENZHEN QISHENG WEIYE ELECTRONIC CO., LTD	XSJ096HAH1301 S	10.80x21.70mm	EN IEC 62368-1	Test with appliance	
LITHIUM BATTERY		Shenzhen City triumph Electronic Technology Co., Ltd.	341423	3.7V, 90mAh, 0.333Wh	IEC 62133-2: 2017	Report No: TCT211022E 019	
PCB HUIZHOU WORLD EASY PCB CO LTD		A	V-0, 130°C	UL 94, UL 796	UL E218318		
Alternative		Interchangeable	Interchangeable	V-0, 130°C	UL 94, UL 796	ULS	

Supplementary information: <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-2039.

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

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



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