

TEST REPORT

Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer 114538

Address : /

Product : Desk light wireless charger

Model(s)..... : MO6514

Total pages..... : 56 + 4 pages of photo documentation

Standards : EN 62368-1:2014+A11:2017

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample : 2021-11-05

Date of Test 2021-11-05 to 2021-11-18

Date of Issue : 2021-12-09

Test Result: Pass

Remarks:

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

Prepared By:

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Compiled by: Approved by:

Gary Lin

Gary Liu / Project Engineer

Sam Qi / Designated Reviewer



Reference No.: WTF21D10112623Y Page 2 of 56

Test item description Desk light wireless charger Trademark: MOB Model and/or type reference MO6514 Rating(s)....: Input: 5V==, 2.0A /9V==, 2.0A; Wireless output: 5V=, 1.0A /7.5V=, 1.0A /9V=, 1.1A; Remark:

Whether parts of tests for the product have been subcontracted to other labs:

 \bowtie No

If Yes, list the related test items and lab information:

Test items: Lab information:

Summary of testing:

Tests performed (name of test and test clause):

-EN 62368-1:2014+A11:2017 All applicable test

Testing location:

Waltek Testing Group Co., Ltd.

Address: No.77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Summary of compliance with National Differences:

List of countries addressed: National Differences and Group Differences for CENELEC countries were

checked.

Copy of marking plate:

MOB/MO6514 PO BOX644 6710 BP(NL)

Frequency range: 100-205kHz

Wireless Output Charger: 10W Max

Input: 5V==2A/9V==2A

Made in China

Output: 5V=1A/7.5V=1A/9V=1.1A

5MM

RR CE



7MM

Remark:

Above label for reference only, are the minimum requirements required by the safety standard. The final label marking on product shall contain the information at least. Name and address of the Importer AND Manufacturer must be affixed on the product when the product placed on the EU market. For the final productions, the additional marking which do not give rise to misunderstanding may be added.



Reference No.: WTF21D10112623Y Page 3 of 56

TEST ITEM PARTICULARS:	WILL MUST MUST MEN WAR THE THE
Classification of use by:	
The state of the state of	☐Instructed person
alter with white white white white whe	☐Skilled person
and an a set left that the	⊠Children likely to be present
Supply Connection	☐AC Mains ☐DC Mains
and the state of the state	⊠External Circuit - not Mains connected
et tet lifet nite unit whit will	- ⊠ES1 □ES2 □ES3
Supply % Tolerance:	☐+10%/-10%
THE STIER WITE WITE MINTE MALL A	☐+20%/-15%
who will the state of	☐+6%/ -10%
The risk risk with anith wait with	None
Supply Connection – Type:	pluggable equipment type A -
LEX LEX STEEL NITER WITH MILTER WALL	non-detachable supply cord
in mir we me in the	☐ appliance coupler ☐ direct plug-in
of the the liter while while	mating connector
must mer my my my	☐ pluggable equipment type B -
at the text they write with the	non-detachable supply cord
White must must my my my	appliance coupler
	permanent connection
the party lay are a fair	☐ mating connector ☒ other: not directly connected
	to the mains
Considered current rating of protective device as part of building or equipment installation	Installation location: ☐building; ☐equipment
Equipment mobility	
The state of the s	rack-mounting wall-mounted
Over voltage category (OVC)	
	Solver: not directly connected to the mains.
Class of equipment	☐ Class I☐ Class II☐ Class III
Access location	restricted access location N/A
Pollution degree (PD)	□PD 1⊠ PD 2□ PD 3
Manufacturer's specified maxium operating ambient:	40°C
IP protection class:	☐ IPX0 ☐ IP20
Power Systems	N TN TT IT − V L-L
Altitude during operation (m)	⊠ 2000 m or less □ m
Altitude of test laboratory (m)	⊠ 2000 m or less □ m
Mass of equipment (kg):	⊠ 0.14kg
POSSIBLE TEST CASE VERDICTS:	THE WILL WITH MIT MIT MIN
- test case does not apply to the test object:	N/A



Reference No.: WTF21D10112623Y Page 4 of 56

- test object does meet the requirement:	P (Pass)			
- test object does not meet the requirement:	F (Fail)			
TESTING:	in my my			
Date of receipt of test item	2021-11-05			
Date (s) of performance of tests:	2021-11-05 to 2021-11-18			
GENERAL REMARKS:				
The test result presented in this report relate only to the or This report shall not be reproduced, except in full, without laboratory.				
The report would be invalid without specific stamp for test	institute or the authority.			
The report would be invalid without the signatures of reporter and reviewer.				
"(see Enclosure #)" refers to additional information apper "(see appended table)" refers to a table appended to the				
Throughout this report a \square comma / \boxtimes point is used	as the decimal separator.			
GENERAL PRODUCT INFORMATION:	the text the street with the			
Product Description	The August Augus			
 The equipment with model MO6514 is Desk light wirele equipment. 	ss charger, which is classified as Class III			
2. The equipment is powered by an external DC source.				
3. The maximum operating temperature is 40°C.				
Model Differences N/A	ex write write write write w			
Additional application considerations – (Consideration	ns used to test a component or sub-assemble			
N/A	RETE WALL WAS MY MY			





ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)		
Input and internal circuit	ES1 at 11th nut men a		
Wireless output	ES1		

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
5V input and internal circuit	PS1 At 18th 18th 18th 18th 18th
9V input and internal circuit	PS2
Wireless output	PS1 /- (If the life of the lif

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical
N/A	N/A

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table

Example: Wall mount unit MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and Corners	MS1
Equipment mass	MS1

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

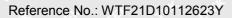
Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
External enclosure	TS1

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)		
LED WILL WILL WILL	RS1		





Clause	Possible Hazard				
5.1	Electrically-caused injur	AIL TILL	24, 24, 24	<u></u>	
Body Part Energy Source	The sales	et let	Safeguards	MALIE	
	(ES3: Primary Filter	Basic	Supplementary	Reinforced (Enclosure	
Ordinary person, Instructed person, Skilled person	ES1: Input and internal circuit ES1: Wireless output	N/A	N/A	N/A	
6.1	Electrically-caused fire	- A	at alt	JEK JIEK	
Material part	Energy Source	rite with	Safeguards	- 14	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
Internal combustible material	PS1: 5V input and internal circuit PS1: Wireless output	N/A	N/A	N/A	
Internal combustible material	PS2: 9V input and internal circuit	N/A	PCB board and enclosure min.	N/A	
7.11 Mill WALL WALL	Injury caused by hazard	ury caused by hazardous substances			
Body Part	Energy Source	Tr Mer	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced	
N/A	N/A	N/A	N/A	N/A	
8.1	Mechanically-caused inj	ury	E. LINE MITE	Write Will	
Body Part	Energy Source	The The	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure	
Ordinary person, Instructed person, Skilled person	MS1: Sharp edges and Corners	N/A	N/A N/A	N/A	
Ordinary person	MS1: Equipment mass	N/A	N/A	N/A	
9.1	Thermal Burn	WILL MY	Mr. Mr.	70, 74	
Body Part	Energy Source	A 16	Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced	
Ordinary person, Instructed person, Skilled person	TS1: External enclosure	N/A	N/A	N/A	
10.1 Radiation			st set se	+ JEX	
Body Part	Energy Source	E. WILLE	Safeguards	20, 20	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced	
Ordinary	RS1: LED	N/A	N/A	-N/A	

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Reference No.: WTF21D10112623Y Page 7 of 56

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J. Wir.	24 24 25	IEC/EN 623	68-1	anti, ant an
Clause	Requirement – Test	INLIE WALL WAS	Result – Remark	Verdict

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies		is with
4.1.2 Use of components ((See appended table 4.1.2)	n ^{ull} P _{ul}
4.1.3	Equipment design and construction	The All Maria	μP
4.1.15	Markings and instructions	(See Annex F)	P
4.4.4	Safeguard robustness	m m m	+ P
4.4.4.2	Steady force tests	(See Annex T.5)	WP.
4.4.4.3	Drop tests	the state of the	N/A
4.4.4.4	Impact tests	(See Annex T.6)	P
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	SLIER WITER WITER WHITER	N/A
4.4.4.6	Glass Impact tests	No glass used	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	₹P
4.4.4.8	Air comprising a safeguard	(See Annex T)	N/A
4.4.4.9	Accessibility and safeguard effectiveness	in while har and	Р
4.5	Explosion	No explosion	T P
4.6	Fixing of conductors	2 24 24	N/A
4.6.1 Fix conductors not to defeat a safeguard		The life of the life of	N/A
4.6.2	10 N force test applied to	me me me	N/A
4.7	Equipment for direct insertion into mains socket - outlets	STEE WILLES WILLES WILLIAM	N/A
4.7.2 Mains plug part complies with the relevant standard		EX WRITER WRITER WRITE	N/A
4.7.3	Torque (Nm)	at let let liet	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell battery used	N/A
4.8.2	Instructional safeguard	tet tet tet attet attet a	N/A
4.8.3	Battery Compartment Construction	her any any any	N/A
white w	Means to reduce the possibility of children removing the battery	TEK WALTER WALTER WALTER WALT	_
4.8.4	Battery Compartment Mechanical Tests	y get get light aligh	N/A
4.8.5	Battery Accessibility	Mer Mr. Mr. M.	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	ONLIER WHITER WHITER WALTER OF	N/A

	5	ELECTRICALLY-CAUSED INJURY		Р
22	5.2.1	Electrical energy source classifications	(See appended table 5.2)	N/A



Reference No.: WTF21D10112623Y Page 8 of 56

24	IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
5.2.2	ES1, ES2 and ES3 limits	Considered as ES1	Р	
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	N/A	
5.2.2.3	Capacitance limits	MI VICTORIA	N/A	
5.2.2.4	Single pulse limits	No single pulse introduced	N/A	
5.2.2.5	Limits for repetitive pulses	No repetitive pulses introduced	N/A	
5.2.2.6	Ringing signals	No ringing signal generated	N/A	
5.2.2.7	Audio signals		N/A	
5.3	Protection against electrical energy sources	LIEF WILL MALLE MALL MA	N/A	
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	of steel steel miles while	N/A	
5.3.2.1	Accessibility to electrical energy sources and safeguards	Tet Tet Tet NITE	N/A	
5.3.2.2	Contact requirements	They are my my	N/A	
WILL	a) Test with test probe from Annex V	TEX TEX STEEL OUTE SI	N/A	
	b) Electric strength test potential (V)	L. M. M. M.	N/A	
Wers M	c) Air gap (mm)	TEX STEE STEE SOUTH WAL	N/A	
5.3.2.4	Terminals for connecting stripped wire		N/A	
5.4	Insulation materials and requirements	MALTE WALL	N/A	
5.4.1.2	Properties of insulating material	() () () () ()	N/A	
5.4.1.3	Humidity conditioning	WILL MILL MALL AND A	N/A	
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	N/A	
5.4.1.5	Pollution degree	Pollution degree 2 considered	<u> </u>	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	ER MILIER MILIE MILIER WILL	N/A	
5.4.1.5.3	Thermal cycling	TER TER STEEL WITE	N/A	
5.4.1.6	Insulation in transformers with varying dimensions	on an an and	N/A	
5.4.1.7	Insulation in circuits generating starting pulses	WELL MET MET ME A	N/A	
5.4.1.8	Determination of working voltage	(See appended table 5.4.1.8)	N/A	
5.4.1.9	Insulating surfaces	The Me Me The	N/A	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	* UNITER WHITE WAITER WHITE	N/A	
5.4.1.10.2	Vicat softening temperature	at left telt telt	N/A	
5.4.1.10.3	Ball pressure	(See appended table 5.4.1.10.3)	N/A	
5.4.2	Clearances	at at at at	N/A	
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	N/A	

Reference No.: WTF21D10112623Y Page 9 of 56

01	IEC/EN 6236	14 14 14 14 14	T.,
Clause	Requirement – Test	Result – Remark	Verdict
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	N/A
20, 20,	a) a.c. mains transient voltage	mer mer me m	_
LITET MILI	b) d.c. mains transient voltage	No such transient voltage	_
	c) external circuit transient voltage	No such transient voltage	_
MUTIC	d) transient voltage determined by measurement	No need to conduct this test	· _
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Procedure 2 considered	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	Clearance distance was evaluated for altitude up to 2000m above sea level	N/A
5.4.3	Creepage distances	(See appended table 5.4.3)	N/A
5.4.3.1	General	Mr. Mr. M. M.	N/A
5.4.3.3	Material Group	Material group IIIb is assumed to be used	_
5.4.4	Solid insulation	EL TEL TEL STEEL STEEL STEEL	N/A
5.4.4.2	Minimum distance through insulation	white the sur me	N/A
5.4.4.3	Insulation compound forming solid insulation	ALTER MITE	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints	THE LIFE WITH MITTER	N/A
5.4.4.6	Thin sheet material	m m m	N/A
5.4.4.6.1	General requirements	CIEX NIEK WILLER WALTER WA	N/A
5.4.4.6.2	Separable thin sheet material	. 10 Th	N/A
mr, m	Number of layers (pcs)	EX THE MILE WALL WALL	N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	WALTER WALTE WALL WALL WALL	N/A
5.4.4.6.5	Mandrel test	ITER SITER WITE WITE M	N/A
5.4.4.7	Solid insulation in wound components	1. 24 2.	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz	TEX NITER WITE WALL WAL	N/A
5.4.5	Antenna terminal insulation	The state of the	N/A
5.4.5.1	General	Chilly Will Mark	N/A
5.4.5.2	Voltage surge test	1 to the set	N/A
211.	Insulation resistance (MΩ)	WILL MUTT MUTT AND AND	-
5.4.6	Insulation of internal wire as part of supplementary safeguard	THE MITTER WILLIAM OF	N/A
5.4.7	Tests for semiconductor components and for cemented joints	at the the line of	N/A



Reference No.: WTF21D10112623Y Page 10 of 56

Clause	Requirement – Test	Result – Remark	Verdict
and a	Mary Mary Ang Mary Mary	THE THE WITH THE	THE WAY
5.4.8	Humidity conditioning		N/A
anri an	Relative humidity (%)	TER STEEL WITER WITE	MULTIN -
18 A	Temperature (°C)	24	<i>*</i> –
in all	Duration (h)	RUTE WITE WALTE	mr -
5.4.9	Electric strength test	_ N	N/A
5.4.9.1	Test procedure for a solid insulation type test	WILL MULL MULL M	N/A
5.4.9.2	Test procedure for routine tests	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.10	Protection against transient voltages between external circuit	LIE WILL WILL WILL	N/A
5.4.10.1	Parts and circuits separated from external circuits	MULLER MULLER MULL	N/A
5.4.10.2	Test methods	TEX LIFE SLIFE	N/A
5.4.10.2.1	General	Mr. M. M.	N/A
5.4.10.2.2	Impulse test	LIER NITER WITE OF	N/A
5.4.10.2.3	Steady-state test	1 2n 2 1	N/A
5.4.11	Insulation between external circuits and earthed circuitry	TEX WALTER WALTER WALT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	the funite	N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V)	mer mer mer a	
MALTE	Nominal voltage U _{peak} (V)	TEX STEX STEEL ON	TER SINCE -
, t	Max increase due to variation U _{sp}	in the the ten	_
Write M.	Max increase due to ageing ΔU _{sa}	Et LIET SLIET WIFE	Maria —
d d	U _{op} = U _{peak} + ΔU _{sp} +ΔU _{sa}	7/11 20 0	.t -
5.5	Components as safeguards	NITER WITE WALLS	Wei Mer M
5.5.1	General	The state of	N/A
5.5.2	Capacitors and RC units	NITER WALTE WALTE WI	N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	ite white white whi	N/A
5.5.3	Transformers	H WITE WITE WALL	N/A
5.5.4	Optocouplers	20° - 24 24	N/A
5.5.5	Relays	WITE WALL WALL A	N/A
5.5.6	Resistors	e et	N/A
5.5.7	SPD's	The Write Mur Au	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	, , , , , , ,	N/A



Reference No.: WTF21D10112623Y Page 11 of 56

Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.5.7.2	Use of an SPD between mains and protective earth	et let tet tet	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	me me me	N/A
5.6	Protective conductor	WITE WILL WILL WILL WITE	N/A
5.6.2	Requirement for protective conductors	a state of	N/A
5.6.2.1	General requirements	Write Muri Mur Mur	N/A
5.6.2.2	Colour of insulation	at at the tiet	N/A
5.6.3	Requirement for protective earthing conductors	er were the tit	N/A
n in	Protective earthing conductor size (mm²)	WHITE WALL WALL WE	_
5.6.4	Requirement for protective bonding conductors	A A A A A	N/A
5.6.4.1	Protective bonding conductors	white whi was we	N/A
et of the	Protective bonding conductor size (mm²)	of the text of the	
4,	Protective current rating (A)	WILL MUST MUST MILE	10,
5.6.4.3	Current limiting and overcurrent protective devices	TEX WHITEX WHITEX WHITER W	N/A
5.6.5	Terminals for protective conductors	At A Let .	N/A
5.6.5.1	Requirement	2 40, 40,	N/A
LEK MUTLE	Conductor size (mm²), nominal thread diameter (mm)	WITE WILL WALLE	N/A
5.6.5.2	Corrosion	a state of the	N/A
5.6.6	Resistance of the protective system	LIE WALL WILL WALL WALL	N/A
5.6.6.1	Requirements	at at all the	N/A
5.6.6.2	Test Method Resistance (Ω)	anti me m	N/A
5.6.7	Reliable earthing	LEK TEK STEK AS	N/A
5.7	Prospective touch voltage, touch current and pr	otective conductor current	N/A
5.7.2	Measuring devices and networks	TEX TEX LITER NUTER	N/A
5.7.2.1	Measurement of touch current	her any any and	N/A
5.7.2.2	Measurement of prospective touch voltage	THE SHE STEE WITE	N/A
5.7.3	Equipment set-up, supply connections and earth connections	t it it it	N/A
TEK JE	System of interconnected equipment (separate connections/single connection)	mer and and an	* _
t 'Ex	Multiple connections to mains (one connection at a time/simultaneous connections)	MULTER WALL MEN WILL	-z' _
5.7.4	Earthed conductive accessible parts	LIER WILL WALLE	N/A
5.7.5	Protective conductor current		N/A
112 21	Supply Voltage (V)	EX LITER OLIVE MILE OF	Vr



Reference No.: WTF21D10112623Y Page 12 of 56

	IEC/EN 62368-1		
Clause	Requirement – Test	Result – Remark	Verdict
- NL	Mr. Mr. W. Carter State	RITER WITE WALTER WAS	in me
<i>*</i>	Measured current (mA)		
wier. 4	Instructional Safeguard	TEX STEX WITER SINTE	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	- Tex Tex Ster	N/A
5.7.6.1	Touch current from coaxial cables	mr mr m	N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	WILLER MALIER MALTER OF	N/A
5.7.7	Summation of touch currents from external circuits	LITER WILLER WALL	N/A
NATEK W	a) Equipment with earthed external circuits Measured current (mA)	H LIET NITER MUTER	N/A
LIEK NLT	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)	at the tex	N/A

6	ELECTRICALLY- CAUSED FIRE	S	Р
6.2	Classification of power sources (PS) and potenti	al ignition sources (PIS)	Р
6.2.2	Power source circuit classifications	tel tree with mile and	or P
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	TEX PAR
6.2.2.4	PS1	(See appended table 6.2.2)	Р
6.2.2.5	PS2	(See appended table 6.2.2)	Р
6.2.2.6	PS3	70 4 3	N/A
6.2.3	Classification of potential ignition sources	EX SITE ONLY WILL WALL	JIN P
6.2.3.1	Arcing PIS	and the state of	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating	and abnormal operating conditions	P
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	- P
6.3.1 (b)	Combustible materials outside fire enclosure	The Am Am	N/A
6.4	Safeguards against fire under single fault conditi	ions	η ^{ch} P.
6.4.1	Safeguard Method	Method of control fire spread used	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	JUNITER WHITE WHITE WHITE WA	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	LIFEX MILIER WILLER WILLER WILL	N/A
6.4.3.1	General	1 1 1 1 1 1 1 1	N/A



Reference No.: WTF21D10112623Y Page 13 of 56

Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result - Remark	veruici
6.4.3.2	Supplementary Safeguards	es me me in a	N/A
	Special conditions if conductors on printed boards are opened or peeled	tex mutter mutiter mutiter mut	N/A
6.4.3.3	Single Fault Conditions	- TEK TEK LITEK NITE	N/A
Et JEt	Special conditions for temperature limited by fuse	And	N/A
6.4.4	Control of fire spread in PS1 circuits	WILL MULL MULL MAN.	N/A
6.4.5	Control of fire spread in PS2 circuits	at let all all a	C P
6.4.5.2	Supplementary safeguards	V-0 enclosure and PCB board	Р
3.4.6	Control of fire spread in PS3 circuit	at left left light lift	N/A
6.4.7	Separation of combustible materials from a PIS	The the tip	N/A
6.4.7.1	General	WILL WHILE WALL WALL	N/A
6.4.7.2	Separation by distance	A A A A A	N/A
6.4.7.3	Separation by a fire barrier	UTTE WATE MAD MAY A	N/A
6.4.8	Fire enclosures and fire barriers	V-0 fire enclosure used.	P
6.4.8.1	Fire enclosure and fire barrier material properties	V-0 fire enclosure used.	Р
6.4.8.2.1	Requirements for a fire barrier	" Muri Muri	N/A
6.4.8.2.2	Requirements for a fire enclosure	V-0	JE P
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	V-0 fire enclosure used.	Р
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings.	N/A
6.4.8.3.2	Fire barrier dimensions	· · · · · · · · · · · ·	N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	WILL AND MIN AND	N/A
TIE WIT	Needle Flame test	LIER SLIEF WITE WHILE	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	THE THE LIES MITTER	N/A
NUTER O	Flammability tests for the bottom of a fire enclosure	it it til till i	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	The sure of the sure	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	MULL MALL MALL MAR	N/A
3.5	Internal and external wiring	SITER MITE MITE WALL	N/A
6.5.1	Requirements	m m m	N/A
6.5.2	Cross-sectional area (mm²)	HITE WHITE WHITE WHITE W	
6.5.3	Requirements for interconnection to building wiring	et ifet wiet wifet wi	N/A



Reference No.: WTF21D10112623Y Page 14 of 56

" ave	IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
6.6	Safeguards against fire due to connection to additional equipment	ASTERNATIVE SHAPE THE	N/A	
THE T	External port limited to PS2 or complies with Clause Q.1	were the same	N/A	

7	INJURY CAUSED BY HAZARDOUS SUBSTA	ANCES	N/A
7.2	Reduction of exposure to hazardous substances	No such hazardous substances	N/A
7.3	Ozone exposure	No ozone production	N/A
7.4	Use of personal safeguards (PPE)	in the same of	N/A
Trees.	Personal safeguards and instructions	ex liet wife write while	_
7.5	Use of instructional safeguards and instructions	THE THE LIER NUTER	N/A
1	Instructional safeguard (ISO 7010)	They are any	_
7.6	Batteries	Tet Tet itel atter it	N/A

8	MECHANICALLY-CAUSED INJURY		WP
8.1	General	Edges and corners are classed as MS1	INLITEP S
8.2	Mechanical energy source classifications	1 12 20	Р
8.3	Safeguards against mechanical energy sources	The Life William III W	N/A
8.4	Safeguards against parts with sharp edges and corners	No edges and corners	N/A
8.4.1	Safeguards	The Man Man Man And Man	N/A
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	at let the tree	N/A
8.5.2	Instructional Safeguard	MUTE MET ME ME ME	_
8.5.4	Special categories of equipment comprising moving parts	NATER WHITEK WHITEK WHITEK WA	N/A
8.5.4.1	Large data storage equipment	a at at at a	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	of the the text	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	MITE WALL WALL WALL	N/A
8.5.4.2.2	Instructional safeguards against moving parts	a state of	N/A
n.	Instructional Safeguard	with with any and any	_
8.5.4.2.3	Disconnection from the supply	at at at at	N/A
8.5.4.2.4	Probe type and force (N)	tree mer mer me me	N/A
8.5.5	High Pressure Lamps	No high pressure lamps	N/A



Reference No.: WTF21D10112623Y Page 15 of 56

201.	IEC/EN 623	368-1	21, 20,
Clause	Requirement – Test	Result – Remark	Verdict
8.5.5.1	Energy Source Classification	WITE WILL MILL MILL	N/A
8.5.5.2	High Pressure Lamp Explosion Test	ER TER STER STEET ST	N/A
8.6	Stability	The Art of the	N/A
8.6.1	Product classification	e alter outer and the unit	N/A
et et	Instructional Safeguard		_
8.6.2	Static stability	CLIET WILL WILL WILL	N/A
8.6.2.2	Static stability test	L A B B	N/A
111 1	Applied Force	" LIE WILL MILL MILL A	
8.6.2.3	Downward Force Test	of the text of the co	N/A
8.6.3	Relocation stability test	i mi mi mi m	N/A
LIE NALT	Unit configuration during 10° tilt	# ARK ARK ATER ALT	_
8.6.4	Glass slide test	Mus Me Me M	N/A
8.6.5	Horizontal force test (Applied Force)	TEX STEX NITER MITE	N/A
d	Position of feet or movable parts	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
8.7	Equipment mounted to wall or ceiling	VIEW NITER WITE WALLE W	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	and the said	N/A
8.7.2	Direction and applied force		N/A
8.8	Handles strength	No handles.	N/A
8.8.1	Classification	m m	N/A
8.8.2	Applied Force	"LIER OLIER WITE WALTE	N/A
8.9	Wheels or casters attachment requirements	No wheels or casters.	N/A
8.9.1	Classification	LEE MITE WHITE WHITE WE	N/A
8.9.2	Applied force		et —
8.10	Carts, stands and similar carriers	No carts or stands or other carriers.	N/A
8.10.1	General	LIFE MITER MITE WALL	N/A
8.10.2	Marking and instructions		N/A
21/2 2	Instructional Safeguard	TET WITE WILL WILL V	14.
8.10.3	Cart, stand or carrier loading test and compliance	of the street sources such	N/A
At A	Applied force		<u>, </u>
8.10.4	Cart, stand or carrier impact test	ALTER MATE WALTE WALTE	N/A
8.10.5	Mechanical stability	a at at at	N/A
27100	Applied horizontal force (N)	WITE WALTE WALT WALT	2/12
8.10.6	Thermoplastic temperature stability (°C)		N/A



Reference No.: WTF21D10112623Y Page 16 of 56

	IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict	
- ales	Mr. M. M. A. S.	THE STEP WITH WALL	ane me	
8.11	Mounting means for rack mounted equipment	Not rack mounted.	N/A	
8.11.1	General	TEX STEEL NUTER SOUTER	N/A	
8.11.2	Product Classification	'n' 'n' ''	N/A	
8.11.3	Mechanical strength test, variable N	- SLIER WITE WALLE AN	N/A	
8.11.4	Mechanical strength test 250N, including end stops	TEX SEX SIEK SE	N/A	
8.12	Telescoping or rod antennas	. No rod antennas.	N/A	
MALTE	Button/Ball diameter (mm)	THE THE STIEF WITE	.n ¹² _	

9	THERMAL BURN INJURY		200 P 30
9.2	Thermal energy source classifications	Enclosure is classed as TS1	AP 3
9.3	Safeguard against thermal energy sources	TE SLITE WILL WALL WALL OF	N/A
9.4	Requirements for safeguards	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
9.4.1	Equipment safeguard	WITE WITE WALL WILL AND	N/A
9.4.2	Instructional safeguard	Instructional safeguard is not required	N/A

10	RADIATION		We by
10.2	Radiation energy source classification	The LED was RS1.	AP A
10.2.1	General classification	The LED was RS1.	Р
10.3	Protection against laser radiation	No laser radiation	N/A
211 1	Laser radiation that exists equipment:	the with him his	_
STEEL ST	Normal, abnormal, single-fault	at the title title	N/A
24, 24,	Instructional safeguard	MULL MULL MULL MULL	_
LIEN MITE	Tool	LET TEX LIES NITES	_
10.4	Protection against visible, infrared, and UV radiation	We we all the	N/A
10.4.1	General	WILL MULL MULL MULL AND	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	at at the other	N/A
10.4.1.b)	RS3 accessible to a skilled person	The Me Me M	N/A
NITER WAL	Personal safeguard (PPE) instructional safeguard	A MITER MATER MATER MATER	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1	STEEL STEEL WITER WHITER W	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions	m m	⊘ N/A ♂
10.4.1.e)	Enclosure material employed as safeguard is opaque	Safeguard is not required.	N/A
10.4.1.f)	UV attenuation	No UV.	N/A



Reference No.: WTF21D10112623Y Page 17 of 56

IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
10.4.1.g)	Materials resistant to degradation UV	No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation	No required.	N/A
10.4.1.i)	Exempt Group under normal operating conditions	THE THE THE	N/A
10.4.2	Instructional safeguard	Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment	(See appended table B.3 & B.4)	N/A
10, 1,	Normal, abnormal, single fault conditions	TIL MUTE MUTE AND AND	N/A
RLTER JOY	Equipment safeguards	at let let let liet lie	N/A
	Instructional safeguard for skilled person	The Me Me Me	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation	MILIER WALTER WALTER WALTER	. —
LIER	Abnormal and single-fault condition	at at let set.	N/A
70,	Maximum radiation (pA/kg)	Will Mar My My	N/A
10.6	Protection against acoustic energy sources	at let let little all	N/A
10.6.1	General	in the the the	N/A
10.6.2	Classification	LEE LITER MITTER	N/A
t	Acoustic output, dB(A)	2 1 2 2	N/A
Wille	Output voltage, unweightedr.m.s.	TE TE WITH MITE	N/A
10.6.4	Protection of persons	m m m	N/A
Mrs. 1	Instructional safeguards	STEX SLIEK WIFE WALTER WAY	N/A
nlifek ani	Equipment safeguard prevent ordinary person to RS2	et tet itet itet sitet sit	-
TEX SIF	Means to actively inform user of increase sound pressure	and any any any	_
it let	Equipment safeguard prevent ordinary person to RS2	MULT MULT MULT MULT	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	WILE MULL MULL MULL AN	N/A
10.6.5.1	Corded passive listening devices with analog input	TEX WILLER WHITE WHITE WIL	N/A
NITER WILL	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output	* MITER MITER MITER WATER	_
10.6.5.2	Corded listening devices with digital input	at at at at	N/A
20,	Maximum dB(A)	WILL MILL WILL WILL WILL	_
10.6.5.3	Cordless listening device	at let tet tet	N/A
10, 1	Maximum dB(A)	the me me in	_

Reference No.: WTF21D10112623Y Page 18 of 56

	AV.		71, 71,		
C.	IEC/EN 62368-1				with mer me
	Clause	Requirement – Test	Write White Wh	Result – Remark	Verdict

В	NORMAL OPERATING CONDITION TESTS, A CONDITION TESTS AND SINGLE FAULT CO		P
B.2	Normal Operating Conditions	in my my m	Р
B.2.1	General requirements	(See summary of testing& appended test tables)	MILT P
EK WILLEY	Audio Amplifiers and equipment with audio amplifiers	No audio amplifier circuits	N/A
B.2.3	Supply voltage and tolerances	in the state of	N/A
B.2.5	Input test	(See appended table B.2.5)	1/P
B.3	Simulated abnormal operating conditions	and the state of	Р
B.3.1	General requirements	(See appended table B.3)	All P
B.3.2	Covering of ventilation openings	at the left tells	N/A
B.3.3	D.C. mains polarity test	WHITE WALL WALL WALL	N/A
B.3.4	Setting of voltage selector	No such voltage selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity	at let let let li	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	THE THE	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
B.4	Simulated single fault conditions		
B.4.2	Temperature controlling device open or short-circuited	No such controlling device	N/A
B.4.3	Motor tests	No motors used	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	ER MULTER MULTER MULTER MULT	N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	P.
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	TEK P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	The MALL MALL MALL AND	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	N/A
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	P
B.4.7	Continuous operation of components	Not intermittent or short-time operation equipment	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	EK TEK STEK STEK MIT	N/A



Reference No.: WTF21D10112623Y Page 19 of 56

IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
B.4.9	Battery charging under single fault conditions	STEE WHITE WALL THE ONE	N/A
С	UV RADIATION	1	N/A
C.1_	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements	Mur Mr Mr Mr	N/A
C.1.3	Test method	THE THE LIEF NITES	N/A
C.2	UV light conditioning test	We are the transfer to	N/A
C.2.1	Test apparatus	TEX ITEX NITER WITE ONE	N/A
C.2.2	Mounting of test samples	and the same	N/A
C.2.3	Carbon-arc light-exposure apparatus	ix life of the write	N/A
C.2.4	Xenon-arc light exposure apparatus	THE THE STATE OF	N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	The second second	N/A
D.2	Antenna interface test generator	ALTER MITE WALL WALL WA	N/A
D.3	Electronic pulse generator	and the state of	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONT	AINING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	TEX TEX	N/A
10	Audio signal voltage (V)	The sure sure	_
Et alie	Rated load impedance (Ω)	THE LIEF	_
E.2	Audio amplifier abnormal operating conditions	when my my me	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, A SAFEGUARDS	ND INSTRUCTIONAL	Р
F.1	General requirements	a st set set set	P
7. Est . 1.	Instructions – Language	Instructions in English are checked	_
F.2	Letter symbols and graphical symbols	mite white white white	h _{ij}
F.2.1	Letter symbols according to IEC60027-1	L A A A	THE PUT
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	Will all all all all	P
F.3	Equipment markings	ITER OUTER WITE WALL WALL	J/P
F.3.1	Equipment marking locations	Located on the enclosure surface	P
F.3.2	Equipment identification markings	Mile while while whi	7/1 P 1
F.3.2.1	Manufacturer identification	See copy of marking plate	
F.3.2.2	Model identification	See page 1 for details	_
F.3.3	Equipment rating markings	See copy of marking plate	P.TE
F.3.3.1	Equipment with direct connection to mains	HILL MULL MET MUT ME	N/A
F.3.3.2	Equipment without direct connection to mains	See copy of marking plate	Р



Reference No.: WTF21D10112623Y Page 20 of 56

IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
F.3.3.3	Nature of supply voltage	DC	
F.3.3.4	Rated voltage	5V/9V	<u> </u>
F.3.3.4	Rated frequency	40, 41, 91, 71	_
F.3.3.6	Rated current or rated power	2.0A	_
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 of the s	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 switch	N/A
F.3.5.3	Replacement fuse identification and rating markings	THE STEE WITH MUTH	N/A
F.3.5.4	Replacement battery identification marking	M. M. M.	N/A
F.3.5.5	Terminal marking location	STEE STEE WITE SUNTE	N/A
F.3.6	Equipment markings related to equipment classification	Class III Equipment	N/A
F.3.6.1	Class I Equipment	111 111 111	N/A
F.3.6.1.1	Protective earthing conductor terminal	CEL CONTRACTOR	N/A
F.3.6.1.2	Neutral conductor terminal	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
F.3.6.1.3	Protective bonding conductor terminals	THE MILE MILE WALTE	N/A
F.3.6.2	Class II equipment (IEC60417-5172)	on a start	N/A
F.3.6.2.1	Class II equipment with or without functional earth	LITER MILITER WHITE MALL M	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	EX WHITEX WHITEX WHI	N/A
F.3.7	Equipment IP rating marking	LEK TEK STEK ASTER	_
F.3.8	External power supply output marking	Mer Mer Me Me	N/A
F.3.9	Durability, legibility and permanence of marking	ALIER WALTER VALUE WALTER V	n The Pri
F.3.10	Test for permanence of markings	at at at at	Р
F.4	Instructions	THE MUT. MUT. MUT. M.	Р
nlife whi	a) Equipment for use in locations where children not likely to be present – marking	A WILLER MATTER MATER MATE	N/A
TEN TEN	b) Instructions given for installation or initial use	a state of	Р
7112	c) Equipment intended to be fastened in place	WILL MULL MULL WILL	N/A
MILIER	d) Equipment intended for use only in restricted access area	THE LIFE WIFE WIFE	N/A



Reference No.: WTF21D10112623Y Page 21 of 56

Clause	Denvironant Tool	Descrit Demonto	Vardiat
Clause	Requirement – Test	Result – Remark	Verdict
MULTER MY	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	LEX WITH MULTER WHILE	N/A
TEX J	f) Protective earthing employed as safeguard	a at at att	N/A
ek lek	g) Protective earthing conductor current exceeding ES2 limits	MULTE WALL WALL WILL	N/A
Mer	h) Symbols used on equipment	THE MITE WITE WALL V	u Pr
MALTER	i) Permanently connected equipment not provided with all-pole mains switch	tet tiet stiet stiet stiet sn	N/A
aliek mi	j) Replaceable components or modules providing safeguard function	at the title state site	N/A
F.5	Instructional safeguards	Instructional safeguards are not required.	N/A
of Willey	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	white white when when	N/A
G	COMPONENTS		Р
G.1	Switches	ret itel liter niter int	N/A
G.1.1	General requirements	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load	THE MILITE WALTE	N/A
G.2	Relays	1 1 1	N/A
G.2.1	General requirements	THE WITE WITE WHILE	N/A
G.2.2	Overload test	in in the	N/A
G.2.3	Relay controlling connectors supply power	LIER WITE WHITE WHILL WA	N/A
G.2.4	Mains relay, modified as stated in G.2	· · · · · · · · · · · · · · · · · · ·	N/A
G.3	Protection Devices	it will will me me	N/A
G.3.1	Thermal cut-offs	a at at at	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	MUNITE MINITED WITH WITH	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	in an an and	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	The way we are	N/A
G.3.2	Thermal links	IN THE MALTE MALL WALL WALL	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	Mr. In In	N/A
Mr.	Aging hours (H)	LIFE MITE WATER WATER WI	-
4	Single Fault Condition	20,	



Reference No.: WTF21D10112623Y Page 22 of 56

01	IEC/EN 623		1,7 11.6
Clause	Requirement – Test	Result – Remark	Verdict
STEP S	Test Voltage (V) and Insulation Resistance (Ω)	A THE STANT WALL OF	_
G.3.3	PTC Thermistors	No PTC used	N/A
G.3.4	Overcurrent protection devices	- OF THE THE LIER	N/A
G.3.5	Safeguards components not mentioned in G.3	.1 to G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	WHITEK WHITEK WHITEK WHITER W	N/A
G.3.5.2	Single faults conditions	. (See appended Table B.4)	N/A
G.4	Connectors	With Mary Mary May All All	N/A
G.4.1	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration	Mur. Mr. Mr. Mr.	N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	MALIER WALTER WALTER	N/A
G.5	Wound Components	at the tip tip	N/A
G.5.1	Wire insulation in wound components	West with Mrs. Mrs. Mrs. Mrs.	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	TEX WITH WITH MITTER WITH	N/A
G.5.1.2 b)	Construction subject to routine testing	A A A	N/A
G.5.2	Endurance test on wound components	A PART AND	N/A
G.5.2.1	General test requirements	The lift	N/A
G.5.2.2	Heat run test	mer mer and	N/A
LITER	Time (s)	at let let little	<u> </u>
-7, -,	Temperature (°C)	The me me me	_
G.5.2.3	Wound Components supplied by mains	et ret itet itet mit	N/A
G.5.3	Transformers	The Mark Market	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	White white white white	N/A
EF OLIE	Position	. It let let liet liet	
- 4 ₀ ,	Method of protection	the me me me	_
G.5.3.2	Insulation	tet tet litet nitet mi	N/A
, t	Protection from displacement of windings	I My My My M	_
G.5.3.3	Overload test	of the atternation of the	N/A
G.5.3.3.1	Test conditions	20, 20, 20, 20, 20	N/A
G.5.3.3.2	Winding Temperatures testing in the unit	LIER OLIER MILER MILE	N/A
G.5.3.3.3	Winding Temperatures – Alternative test method	TEX TEX STEEL STEEL OF	N/A
G.5.4	Motors	the the the to	N/A
G.5.4.1	General requirements	No motors used	N/A



Reference No.: WTF21D10112623Y Page 23 of 56

	IEC/EN 62		37
Clause	Requirement – Test	Result – Remark	Verdict
-the	Position	The state of the s	in an
0.5.4.0			
G.5.4.2	Test conditions	rite write white white	N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test	E WILL MULL WALL	N/A
et jet	Test duration (days)		et –
G.5.4.5	Running overload test for d.c. motors in secondary circuits	MULTER MULL MULL MI	N/A
G.5.4.5.2	Tested in the unit	LIER SLIER WILLER WALL	N/A
d.	Electric strength test (V)	71. 10. 10.	
G.5.4.5.3	Tested on the Bench – Alternative test method; test time (h)	I a white multiple with	N/A
The MALTY	Electric strength test (V)	it tek litek litek	NITE .
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	on the text text	N/A
G.5.4.6.2	Tested in the unit	AVER MUE ME ME	N/A
WITE OF	Maximum Temperature	met set set sit	N/A
J	Electric strength test (V)	is my my my	N/A
G.5.4.6.3	Tested on the bench – Alternative test method; test time (h)	TE THE MILITER	N/A
EK OLIE	Electric strength test (V)		N/A
G.5.4.7	Motors with capacitors	ane me me in	N/A
G.5.4.8	Three-phase motors	et tet tet at	N/A
G.5.4.9	Series motors	With the American	N/A
intro an	Operating voltage	Et TEK TEK ATE	INLIE -
G.6	Wire Insulation	in the same	N/A
G.6.1	General	EN STEN STEN STEN	N/A
G.6.2	Solvent-based enamel wiring insulation	The This is	N/A
G.7	Mains supply cords	TER SLIE WITE NO	N/A
G.7.1	General requirements	10, 11, 12, 2	N/A
Mrtie M	Type	TEN NITER WITCH WILL	70°2
at a	Rated current (A)		cit _
1. M.	Cross-sectional area (mm²), (AWG)		aller _
G.7.2	Compliance and test method	1 1 st st	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	Murice Mure Marie	N/A
G.7.3.2	Cord strain relief	Lifet Milit William	N/A
G.7.3.2.1	Requirements	7 70 70	N/A



Reference No.: WTF21D10112623Y Page 24 of 56

Clause	Requirement – Test	Result – Remark	Verdict
Oldusc	Trequirement – Test	result – remark	Verdict
A.	Strain relief test force (N)	or my my my	_
G.7.3.2.2	Strain relief mechanism failure	Et liet outer outer s	"N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)	211 22	- t
G.7.3.2.4	Strain relief comprised of polymeric material	CLIER WITE WALLE WA	N/A
G.7.4	Cord Entry	70 70 70	N/A
G.7.5	Non-detachable cord bend protection	WITE WALL WALL WALL	N/A
G.7.5.1	Requirements	a state of	N/A
G.7.5.2	Mass (g)	Life While Main August	1/12
LIFE NI	Diameter (m)		JEK —
1	Temperature (°C)	MUTE MUTE MUTE A	_
G.7.6	Supply wiring space	LET THE THE N	N/A
G.7.6.2	Stranded wire	mer mer me m	N/A
G.7.6.2.1	Test with 8 mm strand	TEX TEX STER SLIFE	N/A
G.8	Varistors	We the the	N/A
G.8.1	General requirements	THE LIER SLIER MILE	N/A
G.8.2	Safeguard against shock	The Tay of	N/A
G.8.3	Safeguard against fire	I LEE JULIE W	N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage	OLIFE WALL WALL WALL	N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No such IC used	N/A
G.9.1 b)	Limiters do not have manual operator or reset	and the state of	N/A
G.9.1 c)	Supply source does not exceed 250 VA	EL MULLE MULL MULL A	100
G.9.1 d)	IC limiter output current (max. 5A)	et set set	Jet -
G.9.1 e)	Manufacturers' defined drift	MUEL MULL MULL MILL	
G.9.2	Test Program 1	THE THE THE STE	N/A
G.9.3	Test Program 2	in an an	N/A
G.9.4	Test Program 3	tet tet with outer	N/A
G.10	Resistors	24, 24, 24	N/A
G.10.1	General requirements	No such resistors used	N/A
G.10.2	Resistor test	an m	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	White white wife with	N/A
G.10.3.1	General requirements	THE MUTE MUTE MUTE	N/A
G.10.3.2	Voltage surge test	· · · · · · · · · · · · · · · · · · ·	N/A



Reference No.: WTF21D10112623Y Page 25 of 56

, mr	IEC/EN 623	68-1	Vr. Av.	
Clause	Requirement – Test	Result – Remark	Verdict	
G.10.3.3	Impulse test	RITE WILL WILL WAY WAY	N/A	
G.11	Capacitor and RC units			
G.11.1	General requirements			
G.11.2	Conditioning of capacitors and RC units	Conditioning of capacitors and RC units		
G.11.3	Rules for selecting capacitors	201 24 2 St	N/A	
G.12	Optocouplers	LIER WILL MULL MALL AN	N/A	
Writer M	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	TEX MULTER MULTER MULTER	N/A	
NETER MET	Type test voltage Vini	at the test ties after	_	
	Routine test voltage, Vini,b	The Mr. M. M.	_	
G.13	Printed boards	THE JEE STEE WITER	Pur Pur	
G.13.1	General requirements	Approved Printed board used	Р	
G.13.2	Uncoated printed boards	TEX LIER SLIER WITE ON	Р	
G.13.3	Coated printed boards	U. Au au au	N/A	
G.13.4	Insulation between conductors on the same inner surface	TEX WILLE WHILE WHILE WHILE	N/A	
VILLE AUTH	Compliance with cemented joint requirements (Specify construction)	Complied with clause 5.4.4.5 item c)	_	
G.13.5	Insulation between conductors on different surfaces	THE WILL WILL WILLES	N/A	
TEX	Distance through insulation	and the state of	N/A	
142 14	Number of insulation layers (pcs)	etter white white whi whi	_	
G.13.6	Tests on coated printed boards	at at at all all	N/A	
G.13.6.1	Sample preparation and preliminary inspection	While Mar Mar Mr.	N/A	
G.13.6.2a)	Thermal conditioning	et et let let liet	N/A	
G.13.6.2b)	Electric strength test	were me me me	N/A	
G.13.6.2c)	Abrasion resistance test	et tet tet stet street or	N/A	
G.14	Coating on components terminals	her he he he	N/A	
G.14.1	Requirements	(See G.13)	N/A	
G.15	Liquid filled components	in the the the	N/A	
G.15.1	General requirements	LIER WILL WILL WILL	N/A	
G.15.2	Requirements	M. M. M.	N/A	
G.15.3	Compliance and test methods	LIER WILL WILL WALL A	N/A	
G.15.3.1	Hydrostatic pressure test	M. M. A.	N/A	
G.15.3.2	Creep resistance test	LIFE MITE WALLE WALLE WAS	N/A	
G.15.3.3	Tubing and fittings compatibility test	the state of	N/A	
G.15.3.4	Vibration test	ER ALTER MITTER SINCE MANY	N/A	



Reference No.: WTF21D10112623Y Page 26 of 56

Clause	IEC/EN 623	The The The The	1/2-4:-1		
Clause	Requirement – Test	Result – Remark	Verdict		
G.15.3.5	Thermal cycling test	my my my	N/A		
G.15.3.6	Force test	EX TEX STEX WITE	N/A		
G.15.4	Compliance	211, 21, 2,	N/A		
G.16	IC including capacitor discharge function (IC	CX)	N/A		
a) ANTER	Humidity treatment in accordance with sc5.4.8 – 120 hours	Tet Jet Lifet mi	N/A		
b)	Impulse test using circuit 2 with Uc = to transient voltage				
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	the way we want	N/A		
C2)	Test voltage	White white whe	NL _		
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Whitek Whitek Whitek W	N/A		
D2)	Capacitance	TER STER STER MI	'n		
D3)	Resistance	12 M. M. M.			
Н	CRITERIA FOR TELEPHONE RINGING SIGN	ALS	N/A		
H.1	General		N/A		
H.2	Method A	White a	N/A		
H.3	Method B		N/A		
H.3.1	Ringing signal	INLIER MILTE WALL WAS	N/A		
H.3.1.1	Frequency (Hz)	at the set to	ا جا		
H.3.1.2	Voltage (V)	itte mutt mutt mutt	m		
H.3.1.3	Cadence; time (s) and voltage (V)	et let let let	LITE —		
H.3.1.4	Single fault current (Ma):	me me m	1, -		
H.3.2	Tripping device and monitoring voltage	TEK ITEK LITEK O	N/A		
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	THE THE THE	N/A		
H.3.2.2	Tripping device	With Myr. Myr. My	N/A		
H.3.2.3	Monitoring voltage (V)	Let Let Jet Jet			
J	INSULATED WINDING WIRES FOR USE WIT INSULATION	HOUT INTERLEAVED	N/A		
L in	General requirements	Write Will Mur A	N/A		
K	SAFETY INTERLOCKS		N/A		
K.1	General requirements	MULL MULL MULL MILL	N/A		
K.2	Components of safety interlock safeguard mechanism	LIFE WILLER WILLER	N/A		
K.3	Inadvertent change of operating mode	s at at at	N/A		
K.4	Interlock safeguard override	it with while while	N/A		



Reference No.: WTF21D10112623Y Page 27 of 56

Clause	Requirement – Test	Result – Remark	Verdict	
Clause	requirement – Test	Result – Remark	Verdict	
K.5	Fail-safe	the man and the	N/A	
White W	Compliance	EX TEX STEE WITE WITE	N/A	
K.6	Mechanically operated safety interlocks			
K.6.1	Endurance requirement	LIER NITER MITE MAIL	N/A	
K.6.2	Compliance and Test method	The The state of	N/A	
K.7	Interlock circuit isolation	SITER MITE WILL WALL ON	N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)	LEX MULTER MULTER MULTER WAL	N/A	
K.7.2	Overload test, Current (A)		N/A	
K.7.3	Endurance test	My My My M	N/A	
K.7.4	Electric strength test	TER JER JIER WITE.	N/A	
L	DISCONNECT DEVICES		N/A	
L.1	General requirements	TEX LIER SLIER WITE W	N/A	
L.2	Permanently connected equipment	Le Mr In In In	N/A	
L.3	Parts that remain energized			
L.4	Single phase equipment			
L.5	Three-phase equipment	White whi	N/A	
L.6	Switches as disconnect devices	+ nt	N/A	
L.7	Plugs as disconnect devices	WILL MILL MULL MINE IN	N/A	
L.8	Multiple power sources	t at at all a	N/A	
М	EQUIPMENT CONTAINING BATTERIES AND	THEIR PROTECTION CIRCUITS	N/A	
M.1	General requirements	at the title of the	N/A	
M.2	Safety of batteries and their cells	WHITE WALL WALL WALL	N/A	
M.2.1	Requirements	et let let liet	N/A	
M.2.2	Compliance and test method (identify method).	mer me me	N/A	
M.3	Protection circuits	LER TER STER STEEL O	N/A	
M.3.1	Requirements	hr he he h	N/A	
M.3.2	Tests	(See appended table M)	N/A	
- J.L.	- Overcharging of a rechargeable battery	The Mr. Mr. M.	N/A	
nere wh	- Unintentional charging of a non-rechargeable battery	* WHITE WHITE WHITE	N/A	
TER WITE	- Reverse charging of a rechargeable battery	at let let little	N/A	
, J.	- Excessive discharging rate for any battery	Wer Mer My Mr. M.	N/A	
M.3.3	Compliance	(See appended table M)	N/A	
M.4	Additional safeguards for equipment containing secondary lithium battery	the set of the	N/A	



Reference No.: WTF21D10112623Y Page 28 of 56

- 20,	IEC/EN 6230	08-1	70, 1,
Clause	Requirement – Test	Result – Remark	Verdict
M.4.1	General	The will wall wall	N/A
			40
M.4.2	Charging safeguards	CERTIFICATION OF THE ONE	N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2a)	Charging voltage, current and temperature	10 10 10	N/A
M.4.2.2 b)	Single faults in charging circuitry	(See appended table M.4)	N/A
M.4.3	Fire Enclosure	WILL MILL MALL MAL	N/A
M.4.4	Endurance of equipment containing a secondary lithium battery	TEX TEX STEEL MITEL	N/A
M.4.4.2	Preparation	, 10, 20, A	N/A
M.4.4.3	Drop and charge/discharge function tests	it alter while while wh	N/A
et et	Drop	7/1 2/1 V	N/A
r, Mrr,	Charge	OLIER WILL MALLE WALL	N/A
y all	Discharge	The state of	N/A
M.4.4.4	Charge-discharge cycle test	alter mite and white	N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying	TER WHITE WHITE WHITE W	N/A
M.5.1	Requirement	LAP THE SUNTE	N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current	MILITER WALTE WHITE WALLE	N/A
M.6.1	Short circuits	THE LIE WITE WITE	N/A
M.6.1.1	General requirements	. M. M. S.	N/A
M.6.1.2	Test method to simulate an internal fault	EK JEK ALTER MITTER AN	N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	TEXT TEXT STEP STEP	N/A
M.6.2	Leakage current (Ma)	they my my and	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	NUTER WHITER WHITE	N/A
M.7.1	Ventilation preventing explosive gas concentration	TEX MITEX WAITER WAITER	N/A
M.7.2	Compliance and test method	the state of	N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		
M.8.1	General requirements	SITE OF STEE SHIPE SHIPE	N/A
M.8.2	Test method	The the table	N/A
M.8.2.1	General requirements	LIET NITE WILL WILL.	N/A
M.8.2.2	Estimation of hypothetical volume <i>Vz</i> (m³/s)		



Reference No.: WTF21D10112623Y Page 29 of 56

211	IEC/EN 623	68-1	15 20,	
Clause	Requirement – Test	Result – Remark	Verdict	
the !	Mr. M. M. M.	STEE WITE WITE WALL WALL	ar.	
M.8.2.3	Correction factors			
M.8.2.4	Calculation of distance d (mm)			
M.9	Preventing electrolyte spillage			
M.9.1	Protection from electrolyte spillage	OLIER MITE WALL WALL	N/A	
M.9.2	Tray for preventing electrolyte spillage	The second second	N/A	
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)			
N	ELECTROCHEMICAL POTENTIALS		N/A	
NITE WA	Metal(s) used	at the text the time	_	
0	MEASUREMENT OF CREEPAGE DISTANCE	S AND CLEARANCES	N/A	
ite Mili	Figures O.1 to O.20 of this Annex applied	Considered	_	
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS			
P.1	General requirements	We Aug Aug Aug Aug	N/A	
P.2.2	.2.2 Safeguards against entry of foreign object		N/A	
<i>z</i> + <i>z</i>	Location and Dimensions (mm)		_	
P.2.3	Safeguard against the consequences of entry of foreign object		N/A	
P.2.3.1	Safeguards against the entry of a foreign object	White white while white w	N/A	
CLIER	Openings in transportable equipment	of the tel steel all	N/A	
TEX .	Transportable equipment with metalized plastic parts	the the the	N/A	
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)	while while while while	N/A	
P.3	Safeguards against spillage of internal liquids	No internal liquids.	N/A	
P.3.1	General requirements	Wer all All Mr. All An	N/A	
P.3.2	Determination of spillage consequences	at at the the of	N/A	
P.3.3	Spillage safeguards		N/A	
P.3.4	Safeguards effectiveness	t get get lifet slifet	N/A	
P.4	Metallized coatings and adhesive securing parts	No metallized coatings or adhesive securing parts.	N/A	
P.4.2 a)	Conditioning testing	Merch Mary Mary May A	N/A	
LUE	Tc (°C)	at at all all a	_	
20,	Tr (°C)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	
CONT.	Ta (°C)	4 4 4		



Reference No.: WTF21D10112623Y Page 30 of 56

241	IEC/EN 623	868-1	211. 21.	
Clause	Requirement – Test	Result – Remark	Verdict	
P.4.2 b)	Abrasion testing	The Mill Mill Mill of	N/A	
P.4.2 c)	Mechanical strength testing		N/A	
Q	CIRCUITS INTENDED FOR INTERCONNECT		N/A	
Q.1	Limited power sources	TOTA WITH BOILDING WIRING	N/A	
Q.1.1 a)	Inherently limited output	The The Mr. M.	N/A	
Q.1.1 b)	Impedance limited output	THE THE STATE OF THE	N/A	
White v	Regulating network limited output under normal operating and simulated single fault condition	(See table annex Q1)	N/A	
Q.1.1 c)	Overcurrent protective device limited output	of the text of the state of the	N/A	
Q.1.1 d)	IC current limiter complying with G.9	The Mr. All M.	N/A	
Q.1.2	Compliance and test method	TEN LIEN SLIEN WITE	N/A	
Q.2	Test for external circuits – paired conductor cable	one we are the thirty	N/A	
	Maximum output current (A)	Will Mur. Mur. My. 1	_	
WITE N	Current limiting method	et let let liter ou	<u> </u>	
R	LIMITED SHORT CIRCUIT TEST			
R.1	General requirements	THE STATES MITTE	N/A	
R.2	Determination of the overcurrent protective device and circuit	The left	N/A	
R.3	Test method Supply voltage (V) and short-circuit current (A)).	with the and the	N/A	
S	TESTS FOR RESISTANCE TO HEAT AND F	RE	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	EX WHITEK WHITEK WHITEK WHI	N/A	
CLE MULT	Samples, material	TER STER NITER WITE	_	
4 4	Wall thickness (mm)	The Me And And And	_	
WALE	Conditioning (°C)	THE LITTLE MITTER SMITTER	<i>s</i> –	
MITER	Test flame according to IEC 60695-11-5 with conditions as set out	Tet 12th 12th 12th 16	- N/A	
.4	- Material not consumed completely	and the said	N/A	
KLIE WY	- Material extinguishes within 30s	of the liter with the	N/A	
,t 0	- No burning of layer or wrapping tissue	Mr. Mr. 20, 20,	N/A	
S.2	Flammability test for fire enclosure and fire barrier integrity	WALTER MALTER MALTER WALTER	N/A	
MULTER	Samples, material	THE THE LITER STEEL	,š —	
. Ale	Wall thickness (mm)	by my my my	_	
الدين الما	Conditioning (°C)	at let let little al		



Reference No.: WTF21D10112623Y Page 31 of 56

01	IEC/EN 6236	The same of the same				
Clause	Requirement – Test	Result – Remark	Verdict			
-41-	Test flame according to IEC 60695-11-5 with	the many many	N/A			
WALTER ST	conditions as set out	of the tief tief	Life Mile			
All C	Test specimen does not show any additional hole					
S.3	Flammability test for the bottom of a fire enclosure	MULTE MULL MULL MULL	N/A			
The	Samples, material	alier mile mile while	- n			
- TEX	Wall thickness (mm)	in at at at				
1/2 /	Cheesecloth did not ignite	LIER WILL MULL WALL	N/A			
S.4	Flammability classification of materials	e at at at .	N/A			
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	white white with the will	N/A			
L 2+	Samples, material	Mr. Mr. Mr. Mr.	_			
William	Wall thickness (mm)	TEX LITER RUTER MUTER	_ in_			
1	Conditioning (test condition), (°C)		_			
Mury 1	Test flame according to IEC 60695-11-20 with conditions as set out	TEX WALTE WALTE WALL W	N/A			
NITE WAL	After every test specimen was not consumed completely	Marie vini	N/A			
TEK WALTE	After fifth flame application, flame extinguished within 1 min	DITE WILL WHILE WHILE	N/A			
Т	MECHANICAL STRENGTH TESTS		et Po			
T.1	General requirements	life white white white	N/A			
T.2	Steady force test, 10 N	(See appended table T.2)	N/A			
T.3	Steady force test, 30 N	Not applicable.	N/A			
T.4	Steady force test, 100 N	(See appended table T.4)	N/A			
T.5	Steady force test, 250 N	(See appended table T.5)	Р			
T.6	Enclosure impact test	(See appended table T.6)	P.			
74	Fall test	Wr. Mr. Mr. M.	Р			
MALTE	Swing test	TEX LIER SLIER SLIER	nti ynP			
T.7	Drop test	(See appended table T.7)	N/A			
T.8	Stress relief test	(See appended table T.8)	uni P			
T.9	Impact Test (glass)	No glass used	N/A			
T.9.1	General requirements	WILL MUTTE MUTTE MUTT	N/A			
T.9.2	Impact test and compliance	the state of	N/A			
21/2	Impact energy (J)	THE MULL MILL MILL	7/1/2			
JES	Height (m)	at the state of	J. C.			



Reference No.: WTF21D10112623Y Page 32 of 56

T. MUT.	IEC/EN	62368-1	Mur Mur
Clause	Requirement – Test	Result – Remark	Verdict
- 10	The same of the same of	the second second	we we
T.10	Glass fragmentation test	mily My My My	N/A
T.11	Test for telescoping or rod antennas	VER NITER MITER MAILE V	N/A
All C	Torque value (Nm)	W. W. W.	<i>J</i>
U	MECHANICAL STRENGTH OF CATHODE PROTECTION AGAINST THE EFECTS OF		N/A
U.1	General requirements	No CRTs	N/A
U.2	Compliance and test method for non- intrinsically protected CRTs	- TEX TEX STEX SETEX	N/A
U.3	Protective Screen	"" " " " " " " " " " " " " " " " " " "	N/A
V	DETERMINATION OF ACCESSIBLE PART WEDGES)	S (FINGERS, PROBES AND	JANA JA
V.1	Accessible parts of equipment	at at let set as	N/A
V.2	Accessible part criterion	it mer me me m	N/A





Reference No.: WTF21D10112623Y Page 33 of 56

Ų,	TE WALTE	Mry My My	IEC/EN 623	68-1	White A	VILE MUTT
	Clause	Requirement – Test	LITE WILL WAS	Result – Remark	J.	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to..... EN 62368-1:2014+A11:2017

Attachment Form No...... EU_GD_IEC62368_1B_II

Attachment Originator Nemko AS

Master Attachment Date 2017-09-22

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r. Mr.	CENELEC C	COMMON MOI	DIFICATIO	NS (EN)	MILL OF	VII. WUT.
ek whitek	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2014 are prefixed "Z".					
CONTENT S	Annex ZA (n correspondir Annex ZB (n Annex ZC (ir	ng European pu ormative)Spec nformative)A-de	ative refere ublications ial national eviations	nces to internations LEC code design	ALL WAL	
EK WALTER		e "country" note the following li		erence documen	t (IEC 62368	-1:2014)
	0.2.1	Note	1	Note 3	4.1.15	Note
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3
NLTEK SINL	For special r	national conditi	ons, see Ai	nnex ZB.	ret ret	LIEF NIE
TEK WALTER	electrical and	wing note: ne use of certa d electronic equ J: see Directive	uipment is re	estricted	MUTIEK M	TILER MUTER



Reference No.: WTF21D10112623Y Page 34 of 56

Clause	Requirement – Test	Result – Remark	Verdict
" The	m. m. m. m.	LIEF WITE WITE WA	in the man
4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the	THE WALTER WALTER WALTER	MILITER WALTER
	requirements of B.3.1 and B.4 shall be included as parts of the equipment;	LIER WALLER MALLER MALL	MUT MUT
	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;	Whitek Whitek whitek	MULTER WHITE
	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.	nitek whitek whitek white	TEN WASTER WALTER
TEX WALTER	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	antie antie mitek whi	in the miles and
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	et unliet whilet whilet	N/A
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	MULTE MULTE WALL	N/A

Reference No.: WTF21D10112623Y Page 35 of 56

- 10,	IEC/EN 623	211 A A A A	1. 2. 2.
Clause	Requirement – Test	Result – Remark	Verdict
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:	ER MULLER MULLER MULLER	MULL AND
	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.	Whitek whitek whitek w	uniter un
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	A ST SET SET	· LIEK NETEK
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	White whilek whitek	Writes Writes on
	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.	Nitek whitek whitek wh	TEK WATER WATER
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	THE STATE OF STREET	OLIEK WALTER
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	- 1 Miles	
10.6.1	Add the following paragraph to the end of the subclause:	MULTER MULTER MULTER	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	LIEK WALTER WALTER WAL	TEL MUT, MUT,
10.Z1	Add the following new subclause after 10.6.5.	at at at all	N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	MULTER MULE MULE	Mr. Mr.
	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).	Whitek whitek whitek w	unite mitek uni etek unitek uni
MAL WAS	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body-mounted devices, attention is drawn to EN 50360 and EN 50566	TEX WHITE WH	WILL WALTER
G.7.1	Add the following note:	Merce Merce March 2	N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	NIFEK WHITEK WHITEK WH	TEK WATER WATE



Reference No.: WTF21D10112623Y Page 36 of 56

THE WALLE	All the August of the	EC/EN 62368-1	Will Mrite Mile
Clause	Requirement – Test	Result – Remark	Verdict
Bibliograp	h Add the following standards:	White white will and	- 10 m

	Charles The					
Bibliograph	h Add the following standards:					
y Interest which Interest wh	Add the following notes for the standards indicated:			E LIER		
	IEC 60130-9 NOTE Harmonized as EN 60130-9.			211.		
	IEC 60269-2					
	IEC 60309-1	NOTE Harmonized as EN 6	2005 211			
	IEC 60364					
	IEC 60601-2-4	NOTE Harmonized as EN 6	mith with			
	IEC 60664-5	NOTE Harmonized as EN 6				
	IEC 61032:1997	NOTE Harmonized as EN 6	JEK CLIER			
	IEC 61508-1	NOTE Harmonized as EN 6	20			
	IEC 61558-2-1	NOTE Harmonized as EN 61558-2-1.				
	IEC 61558-2-4	NOTE Harmonized as EN 6	2100			
	IEC 61558-2-6					
	IEC 61643-1					
	IEC 61643-21 NOTE Harmonized as EN 61643-21.					
	IEC 61643-311 NOTE Harmonized as EN 61643-311.			Will write		
	IEC 61643-321 NOTE Harmonized as EN 61643-321.					
	IEC 61643-331	NOTE Harmonized as EN 6		iet lier		
ZB						
4.1.15						
4.1.10		subclause the following is	Not export to such counties	CILL IN/A		
A 15	added:	subclause the following is		Att 1		
WAL	Class I pluggable	e equipment type A intended	LIFE ALTE MELLE MALLE	With Mur		
	for connection to other equipment or a network			. L		
WINTER WINTER WINTER	shall, if safety relies on connection to reliable			C. WILL		
	earthing or if surge suppressors are connected between the network terminals and accessible					
	parts, have a marking stating that the			E LIET		
	equipment shall be connected to an earthed			2/1-		
	mains socket-outlet.			TEXT .		
	The marking text in the applicable countries shall be as follows:			They are		
	In Denmark : "Apparatets stikprop skal tilsluttes			1		
	en stikkontakt med jord som giver forbindelse til			Var Will		
	stikproppens jord."					
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"			I LE WALTE		
	In Norway : "Apparatet må tilkoples jordet stikkontakt"		LIEK			
	In Sweden : "Appa	araten skall anslutas till jordat	MULTE MULL MILL WILL	211. 2		
	uttag"		1 1 1	100		



Reference No.: WTF21D10112623Y Page 37 of 56

IEC/EN 62368-1				
Clause	Requirement – Test	Result – Remark	Verdict	
dre	The same and the s	THE STEE STEE IN	The Mr.	
4.7.3	United Kingdom	F. My 24, 24, 25.	N/A	
	To the end of the subclause the following is added:	EX MUTEX MALTEX MALTE	MULTE MUTTE M	
	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	WHITEK WAITER WHITEK	MULTER MULTER MULT	
5.2.2.2	Denmark	CHIE WILL WALL AN	N/A	
	After the 2 nd paragraph add the following:	a a	at at all	
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 Ma a.c. or 10 Ma d.c.	THE WALTER WALTER WALTER	well with a	



Reference No.: WTF21D10112623Y Page 38 of 56

nu.	IEC/EN 623	68-1	HIL MUT AIV
Clause	Requirement – Test	Result – Remark	Verdict
7/2	L. M. A. C.	THE LIFE SLIFE WILL	were we
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable:	EX WILLEX MULTER MULTER	N/A N/A
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	While with whitek with	TEX WILLER
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	THE MITTER MUTTER MUTT	ANTEX MULTER
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	A MUTER MUTER MUTER	WHITEK WHITEK WA
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the	Whitek Whitek Whitek Whi	NITER ONLIER WALTER
	component passes the electric strength test in accordance with the compliance clause below and in addition	TEX WALTER WALTER WALTE	White White h
	• 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	E I MALTELY	WHITE WAITE WAS
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5Kv.	and and an an	et united united
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	et rivet writes writes	WALTER WALTER W
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	MULTER MULTER MULTER	INITER WITER WAL
	• 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;	NLIER WHITER WHITER WAS	TEX ON TEX ONLIER
	• the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	A WILEY WILEY MILIER	WALTER WALTER
	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.	Multer Miles Miles M	RITER WITER WITE



Reference No.: WTF21D10112623Y Page 39 of 56

Clause	Destricement Tool	Decult Demonts	Vandiat
Clause	Requirement – Test	Result – Remark	Verdict
5.5.2.1	Norway	National Annual	N/A
	After the 3 rd 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).	ex unliex unliex unlie	White whitek
5.5.6	Finland, Norway and Sweden To 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.	ITEK WALTER WALTER WALTER	N/A
5.6.1	Denmark Add to the end of the subclause	with mir my	N/A
e une Muliter Muliter	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Whitek	ini. Janiek waite Kunitek waite Maitek
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: - the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	unite white whitek whi	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 mm² to 1,5 mm² in cross-sectional area.	ER WALTER WALTER WALTER	N/A
5.7.5	Denmark		N/A
	To 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.	TER WHITE WHITEK WHITEK	Whitek whitek



Reference No.: WTF21D10112623Y Page 40 of 56

IEC/EN 62368-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.7.6.1	Norway and Sweden To the end of the subclause the following is added:	SEX STEX STEX MITER	N/A
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	MULTER WALTER WALTER	UNITER UNLIER OF
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	ritek unitek unitek unitek	whitek whitek
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	alter mite unite uni	Uniter Writer M
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial	JEK WALTER WALTER WALTE	MALIER WALLES
	cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	unite white white w	on of the
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 Kv r.m.s., 50 Hz or 60 Hz, for 1	Wester white white whites	White whitek
	min. Translation to Norwegian (the Swedish text will also be accepted in Norway):	MUTTER MUTTER MUTTER A	uch test to
	"Apparater isa I koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett isa llers en galvanisk isolator mellom apparatet og kabel-TV nettet."		WATER WHITE
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i isa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	Whitek whitek whitek whi	RLITEK WILLEK WILLER WILLEK WILLER LITER W



Reference No.: WTF21D10112623Y Page 41 of 56

01	Deficiency of Table 1	Danut Danus	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Clause	Requirement – Test	Result – Remark	Verdict
5.7.6.2	Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 Ma.	Et White White White	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 direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met	MILIER WHITER WH	LIFET WITE N/A
G.4.2	Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. 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 a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. 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, DK 1-5a or DK 1-7a Justification:	TEX WILTER WILT WILTER WILTER WILTER WILTER WILTER WILTER WILTER WILTER WILTER	MA WALTER



Reference No.: WTF21D10112623Y Page 42 of 56

IEC/EN 62368-1				
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.	EX WILLEX WALLEY	N/A N/A	
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory 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.	A Whitek	MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MILIER MIL	
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	antific white whit	EX MILES WHITES	
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A.	WILEY WHITEK WHITEK WH	N/A TEL WILLEY	



Reference No.: WTF21D10112623Y Page 43 of 56

10° A			
Wir. Mur.	m m m	IEC/EN 62368-1	Uris Albert Albert
Clause	Requirement – Test	Result – Remark	Verdict

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		L 3+	
10.5.2	Germany	EL TEL STEE STEE STEE	N/A	
	The following requirement applies:	The My in		
	For the operation of any cathode ray tube	- TEX TEX LIEX NITER	White whi	
	intended for the display of visual images operating at an acceleration voltage exceeding	mer mer me m		
	40 Kv, authorization is required, or application	A St Set Set	CIER OLIV	
	of type approval (Bauartzulassung) and	Write Mill Mary August And An	20	
	marking.	the state of	EX JEX	
	Justification:	TEX STEE WITH WITH WILL WAL	Mer	
	German ministerial decree against ionizing radiation (Röntgenverordnung), in force since	The state of	1	
	2002-07-01, implementing the European	it let liet wife wife wife	W. Wall	
	Directive 96/29/EURATOM.	The The The The	4	
	NOTE Contact address:	A BY TEX STEEL	LITE ONL	
	Physikalisch-Technische Bundesanstalt, Bundesallee 100,	WILL MUST MUST MAY A	1. 20	
	D-38116 Braunschweig,	the state of the state of	CENT OF	
	Tel.: Int +49-531-592-6320,	alter with white whit we	21/2	
	Internet: http://www.ptb.de	10 20 20	L 1	



Reference No.: WTF21D10112623Y Page 44 of 56

The Marie	Mary Mary Aller	IEC/EN 623	368-1	MULTER MULTER MILL
Clause	Requirement – Test	Will Mile Miles	Result – Remark	Verdict

4.1.2 TAI	BLE: List of critical co	omponents	211. 211. 2		P+
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclosure and Lamp cover		AF312C	V-0, 80°C, min.thinkness:2.5 mm	UL 94	UL E67171
Internal wire	Shenzhen Dingyu Electrical Technology Co Ltd	2464	300V, 80°C, 22AWG, VW-1	UL 758	UL E365423
Winding of wireless charger	Interchangeable	Interchangeable	Class A, 130°C	EN 62368-1	Test within appliance
LED	Shenzhen Jia Te Co., Ltd	2835	I _F =60mA; 6000- 8000K, exempt group	EN 62471	Report No. WTF21F1011 2701L
LED board	SHENZHEN HECHENG FAST ELECTRONIC TECHNOLOGY CO LTD	1 SEK WALTER WAS	V-0, 130°C	UL 796	UL E159194
PCB A MILLER	KINGBOARD LAMINATES HOLDINGS LTD	KB-5150	V-0, 130°C	UL 796	UL E123995
Alternative	Interchangeable	Interchangeable	V-0, 130°C	UL 94, UL 796	UL
Supplementary i	nformation:	C CLER	LIE .	When Muss	2/2 2/2

4.8.4, 4.8.5	TABLE: Lithium coin/butto	N/A	
(The follo	wing mechanical tests are co	enducted in the sequence noted.)	·
4.8.4.2	TABLE: Stress Relief test	Mur au au au	_
Par	t Material	Oven Temperature (°C)	Comments
26 ⁴ 3	ex alter outles online of	NE WILL THE THE TANK	TEN TEN U
4.8.4.3	TABLE: Battery replaceme	ent test	_
Battery pa	irt no		_
Battery Ins	stallation/withdrawal	Battery Installation/Removal Cycle	Comments
INLIEE S	With Mill Mill Man	1 t 1t 1th 1th	NITER INCIDEN
		MITTER OF THE MAN TO THE TOP OF	700
		# # 163 JEE 1170	WHILE WALLE MA
		it in 4 m	* # #
		et the the 5 the outer of	THE WALL WHE
		men 6	t et set



Reference No.: WTF21D10112623Y Page 45 of 56

Land	July my my r	IEC/EN 62368-1	MULL MULL MILL
Clause	Requirement – Test	Result – Remark	Verdict

4.8.4.4	TABLE	E: Drop test		, —
Impact Are	ea	Drop Distance	Drop No.	Observations
NITER WY	زور ۱۸۷۰ ر	Mur Mur Mur Mur	EK 161 1764 176	LIER WHITE WA
st si	F 700	LIEK OLIEK UNITER WALTE	we sure sure	at at a
Junio	Maria	THE STATE OF THE S	SLIFE MITER 3 LIFE WALTE.	m, and me
4.8.4.5	TABL	E: Impact	the state of the	A -
Impact surfa		Surface tested	Impact energy (Nm)	Comments
in. 1n		al at all all	in white white white white	14. 14. 14. 14.
4.8.4.6	TABL	E: Crush test	A St. Set. Set.	_
Test po	sition	Surface tested	Crushing Force (N)	Duration force applied (s)
411.	10,	the state of the s	ALTER WALTE WALL WALL OF	12 - 24
Suppleme	ntary info	ormation:	I A ST ST	TEK LITER OLITER.
4.8.5	TABL	E: Lithium coin/button cell batte	eries mechanical test result	N/A
Test p	osition	Surface tested	Force (N)	Duration force applied (s)
SER SITE				The STEE STEE
Suppleme	entary info	ormation:	NITE WILL WALL WALL	1942 - 244 - 24,



Reference No.: WTF21D10112623Y Page 46 of 56

Lang Mary	Mr. Mr. Mr. W.	IEC/EN 62368-1	rece men and
Clause	Requirement – Test	Result – Remark	Verdict

5.2	ТАВІ	E: Classification	n of electrical ene	rgy sources	et stet	LIER MIE	Р	
5.2.2	2.2 – Steady S	State Voltage and	Current conditions					
Location (e.g.			F	Parameters				
No.			Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class	
ı,	The William	ing in	Normal	5.0Vpk	TEN - TEN	DC	WILL	
1	5VDC	Input and	Abnormal	not me	24	· · · · · · · · · · · · · · · · · · ·	ES1	
neti	with w	internal circuit	Single fault – SC/OC	antre antre	MULTER OF	reite milit	JULE W	
16.	Write and	any my	Normal	9.0Vpk	-17 ⁶⁷ -51	DC	NITE WILL	
2	9VDC	Input and	Abnormal	mrmr	n - n	, -, -, -, -, -, -, -, -, -, -, -, -, -,	ES1	
	NET WALL	internal circuit	Single fault – SC/OC	CIEK WILIEK W	LIEK WALTE	MULLE MY	June 1	
أعال	E. WILL.	inti unt s	Normal	5.02Vpk	EX TIEX	DC	MULLE	
3	5VDC		Abnormal	arr an			ES1	
NUTE	ANTES IN	output	Single fault – SC/OC	, LT E	7 711	TE WILLS	mrit m	
E	WILL MY	- Jul - Jul	Normal	7.49Vpk		DC	life While	
4	/ 5\/L)(:	Wireless	Abnormal	Vr. 4	12 -12	10 - 1	ES1	
	The wife.	output	Single fault – SC/OC	TEK WUTEK W	TER WALTER	MULLE MUL	MULL	
N	S. WILL S	Horry Myer M	Normal	9.03Vpk	t all	DC O	WILL	
5	9VDC	Wireless	Abnormal	mr mr.	2/1 2	- 4	ES1	
T.	White whi	output	Single fault – SC/OC	WALTER WALTER	WALTEL WA	TER WITTER	Writ EQ1	
5.2.2	2.3 – Capacita	ance Limits						
	Supply	Location (e.g.	T1	F	Parameters		F0.61	
No.	Voltage	circuit designation)	Test conditions	Capacitance, N	Nf L	Jpk (V)	ES Class	
	NUTER OF	LIER WILLER WI	Normal			JEH JEH	Willey .	
1	70, -70		Abnormal:	MITEL - MITE	Mirry M	er alve	n, - n	
	WALLER MAL	MULLE MULL	Single fault – SC/OC:	TIEK TIEK	unitex anti	EK WILLER	ALLER ONLY	



Reference No.: WTF21D10112623Y Page 47 of 56

rÉ	MUCH	Mr. Air Air	IEC/EN 623	68-1	Wing and
(Clause	Requirement – Test	Will MUT. All	Result – Remark	Verdict

5.2.2	2.4 – Single Pu	ılses					
11/1	Cummbi	Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (Ma)	ES Class
et-	JEK JIE	CLIEB WALTE	Normal	77, - 22,	74	at tet	TEX - TE
_ <	ne m	71 ×	Abnormal	LIFE - NITE	with with	mon m	11
Jul.	TEX WALTER	UNLIER WALTER	Single fault – SC/OC	EK TIEK	NITER - MITER	whitek whi	WALTER
5.2.2	2.5 – Repetitive	e Pulses					
	Cummbi	Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (Ma)	ES Class
<u>,</u>	TEK TEK	OLIE MITE	Normal	10 - 10	Ţ,	* *	CENT CENT
-11	in in	20, 20,	Abnormal	TER - VIEW	WILL WILL	mr. m	, in
نامان	EK WALTER	ALTER WALTER	Single fault – SC/OC	# -	JET - JET	MITEL MALTE	MALTER

Test Conditions:

Normal -

Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit

Reference No.: WTF21D10112623Y Page 48 of 56

ŗ	TEN WITE	Mill wife mil	IEC/EN 623	368-1	CA WILLIAM	Will Mills
	Clause	Requirement – Test	Write Wire Williams	Result – Remark	at .	Verdict

: 2 : 2 : 4	9V 4.6 4.8 0.0	T (°		# , (1)* # , (1)* # , (2)*	— — — — — — — — — — — — — — — — — — —
: 2	4.8	T (°		70 70 70 70	T _{max} (°C)
: 4	0.0	T (%)	C)		T _{max} (°C)
		T (%)	C)		T _{max} (°C)
5	3.5	T (°	C)	Jr J	T _{max} (°C)
5	3.5	x - x	2.5	J. J	60.
	73				Ref.
6	1.8	The .	1/2 - 1/	- in	130
6	5.3	- 18th	JE# J	E. Rates	105
6	7.2	11/15 11	70,		130
7	2.2	JEK J	ER WILLE	MILITE WA	130
5	6.0	7070		, t-	Ref.
Ajus	t to 25°0	Cycle Cycle	MITE.	Will With	11/15 1
3	8.5		, <i>,</i>	x - #	77
PCB near U2 Internal enclosure near L1 winding External enclosure near L1 winding Supplementary information:			56.0 Ajust to 25°C 38.5	Ajust to 25°C	Ajust to 25°C

Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class
-m - m	7E+	NITE OF	TE -NITE	Wall	m- n	-711	n- ,
Supplementary information:	aler 1	2	التر ي	, pt	All S	TEK STIFF	INLIES NO

5.4.1.10.2	TABLE: Vicat softening tempe	rature of thermoplastics	ITEK OLIEK ONLIE JA	N/A
Penetration	n (mm)	me me m		_
Object/ Par	t No./Material	Manufacturer/t rademark	T softening (°C)	
- Wille W	in the me me	at the left left	STEE STEE SOUTH	Maria.
supplemen	tary information:	The White Man Man	24, 24, 4,	, t

5.4.1.10.3 TABLE: Ba	II pressure test of thermople	astics	ne m	N/A				
Allowed impression diam	llowed impression diameter (mm)≤ 2 mm							
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	ameter (mm)				
- with mir mi		THE THE THE NUT	e writer whi	in while				
Supplementary information	on: The Street with M	in the things	. L .	t jet				



Reference No.: WTF21D10112623Y Page 49 of 56

Land	July my my r	IEC/EN 62368-1	MULL MULL MILL
Clause	Requirement – Test	Result – Remark	Verdict

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimu	m Cleara	nces/Cre	epage dista	ince	WALLEX WA	TEK WALTE	N/A
	I) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required cr (mm)	cr (mm)
il white y	We we a	- 11	, - J	-d+	16th - 15	ek atter	unite un	CI WALL

Supplementary information:

Note 1: Provide Material Group IIIb

Note 2: BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage				
TEX II	Overvoltage Category	(OV):	1 1 1 A	t Test	. CTEP . N
24	Pollution Degree:	TEX STEX MITE N	THE MUTE MUTE	7/15	111 - 121
Clearance	e distanced between:	Required withstand voltage	Required cl (mm)	Measur	red cl (mm)
Let.	TEX TIER WIFE WI	MrM. M.	- A	. N .	EL JEH

Supplementary information:

BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

1)See appended table 5.4.2.2, 5.4.2.4 and 5.4.3 for measurements.

5.4.2.4	TABLE: Clearances	TABLE: Clearances based on electric strength test					
Test voltag	e applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No			
4	it let let	TER IN WILL	24. 14. 14.	/			

Reference No.: WTF21D10112623Y Page 50 of 56

The same	The sie of the	IEC/EN 62368-1	With Musik Auti
Clause	Requirement – Test	Result – Remark	Verdict

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: D	E: Distance through insulation measurements				
Distance thr insulation di		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
Et JEt-	CLIFER IN	The WALL - WALL OF	· -n	- J	<u> </u>	· JE <u>t</u> JT
Supplement *: See apper	1.1	ion: 4.1.2 for details.	TEK WALTER	White Mili	Aur Aur	TEX TEX

5.4.9	TABLE: Electric strength	tests	h. 22.	N/A	
Test voltage applied between:		Itage applied between: Voltage shape (AC, DC)		Breakdown Yes / No	
Basic/su	pplementary:	· Lat A	the little wife and	ile white whi	
ن ل	t tet -tet tet ou	TER WITE WELL WAS	7/1, 7/2	74- 74-	
Reinforc	ed: n n n	. It let stet	ALTER MITER MALTE	Mary Alver	
. et	TER ITER SITER WITE	With and - wh	4 - L	J+ - JE+	
	entary information: rnative sources have been cons	sidered.	ALTER WALTE WALTE	ing my w	

5.5.2.2	TABLI	E: Stored disc	charge on capa	citors		20,-	N/A
Supply Vo (V), Hz	Itage	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	ssification
Myr -	21/2 2	7.	4-14	SEL S	ik nite - nite w	in Aug	- m
Suppleme X-capacito Bleedin ICX: Notes: A. Test Lo	ors installe g resistor	ed for testing a	are:				
	10	hase to Phase	e; Phase to Earth	n; and/or Neu	itral to Earth		
B. Operat	ing condi	tion abbreviati	ons:				
N - Norma	al operation	na condition (e	a normal oper	ation or one	n fuse); S –Single fault	condition	

5.6.6.2	.6.2 TABLE: Resistance of protective conductors and terminations				
Acc	cessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
	at at a	t inlie unit	MULL -MULL A	le Mi a	
Supplement	tary information:	*	at at	TEX STER ST	EL MITE WALLE



Reference No.: WTF21D10112623Y Page 51 of 56

rÉ	MUCH	Mr. Air Air	IEC/EN 623	68-1	Wing and
(Clause	Requirement – Test	Will MUT. All	Result – Remark	Verdict

5.7.2.2, 5.7.4	2, TABLE: Earthed accessible conductive part		N/A
Supply vo	oltage	will all the the all a	
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
Metal end	closure	Lie with with with with	N/A
		2*	N/A
		at the mil 3 will will	N/A
		4	N/A
		TE THE SITE SALL WALL W	N/A

Supplementary Information:

N/A

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.
- N: Normal condition, R: Reverse condition.

6.2.2	Table: Electric	al power source	s (PS) measurement	s for classification	Pr.
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
20, 1	5V input and	Power (W) :	8.75	ve, mor me	10. 1.
A	internal	V _A (V) :	5.0	of the	PS1
	circuit	I _A (A) :	1.75	in the - are	
et de	9V input and	Power (W) :	15.39	15.39	TEN TEN
В	internal	V _A (V) :	9.0	9.0	PS2
	circuit	I _A (A) :	1.71	1.71	
Mrs. 1	1, 2,	Power (W) :	7.49	Will with Mills	Mrs. Mrs.
C	5V Wireless output	V _A (V) :	1.97		PS1
	Output	I _A (A) :	3.81	LIER WILL WILL	
.*	7.5V	Power (W) :	8.55	- 1	A 15
D	Wireless	V _A (V) :	4.21	of the street	PS1
output	output	I _A (A) :	2.03	2/1, -2,	
Will	art with	Power (W) :	11.91	TER - TER IN	The STATE SUN
E ELIER	9V Wireless output	V _A (V) :	6.44	M. M. M.	PS1
	Output	I _A (A) :	1.85	at the	

Reference No.: WTF21D10112623Y Page 52 of 56

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

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)					
		Open circuit voltage After 3 s	Measured r.m.s current	Calculated value	Arcing PIS?	
	Location	(Vp)	(Irms)	$(V_p \times I_{rms})$	Yes / No	
£ .6	F - THE STATE	NITE MATE WAS	. 14 - 12	- L	at at a	

Supplementary information:

All primary circuit/components were considered as arcing PIS, the open circuit of all secondary components/ circuit were not exceeded 50V.

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

6.2.3.2	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)										
Circuit Lo	cation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No					
	ind internal cuit	WALTER WALTER	MITE WALL	mr m	TEX TEX	Yes (declared)					

Supplementary Information:

All primary/secondary components were considered as resistive PIS.

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

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

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

8.5.5	TABLE: High Pressure Lamp	ER STEE WITE	N/A
Description	n	Values	Energy Source Classification
Lamp type		- TEX STER	NLIFE WALL WALL WALL WALL WALL
Manufactu	ırer:	211 211 21	1 1 15 10
Cat no		LET SET N	THE NITE WALL WALL WALL
Pressure (cold) (MPa)	wer we am	*
Pressure (operating) (MPa):	At At St	THE OLITE SUPER SHOLL S
Operating	time (minutes):	ir mr m	70
Explosion	method:	at at at	. The alter outer smill out
Max partic	le length escaping enclosure (mm):	Wer Wer	m m -
Max partic	le length beyond 1 m (mm):	at at	TEX ITEX NITE WALL
Overall res	sult	White will M	The many
Suppleme	ntary information:		et let like like like kilik
7111			



Page	53	of	56
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IEC/EN 62368-1							
Clause	Requirement – Test	Result – Remark	Verdict				

B.2.5	TABLE: Inp	ut test							
U (V/Hz)	I (A)	I rated (A)	P (W)	P rated (W)	Condition/status				
5VDC	1.68	2.0	8.40	SEE WHITE	Wireless output: 5.0VDC, 1.0A	,			
9VDC	1.66	2.0	14.94	WILLEY V	Wireless output: 9.0VDC, 1.1A				

B.3	TABLE: A	onormal o	perating cor	ndition	tests	NITER	NITE WALL WALL	ALL B ME
Ambient ten	nperature (°	C)				.: See b	elow	_
Power source	Power source for EUT: Manufacturer, model/type, output rating .: See cover page for details							_
Componen t No. Condition Condition (V) Condition Condition (V) Condition							Observatio n	
Wireless output	overload	9VDC	2hours09m ins	VILLER DITER TER VIII	1.71	Type-J	L1 winding: 66.2°C PCB near U2: 77.3°C Ambient: 40.0°C External enclosure: 41.2°C Ambient: 25.0°C	Wireless output max. loading 1.82A, over 1.82A unit shut down, recoverable . No damage, no hazard.



Reference No.: WTF21D10112623Y Page 54 of 56

The Marie	Mary Mary Aller	IEC/EN 623	IEC/EN 62368-1			
Clause	Requirement – Test	Will Mile Miles	Result – Remark	Verdict		

B.4 TABLE: Fault condition tests								P.+
Ambient ten	Ambient temperature (°C)							
Power source	Power source for EUT: Manufacturer, model/type, output rating See cover page for details							_
Componen t No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T- couple	Temp. (°C)	Observatio n
CBB1	short circuit	9VDC	10mins	White White	0.012	-wnifek	JUNITER WHITER WAS	After short circuit, unit shut down, recoverabl e, no damage, no hazard
U2 pin5-10	short circuit	9VDC	10mins	TEK VI	0.014	EE WAL	Whitek whitek	After short circuit, unit shut down, recoverabl e, no damage, no hazard

Supplementary information:

- 1) SC: short circuit, OL: overload, OC: open circuit; CD: components damaged;
- 2) The Hi-pot test conducted successfully after the completion of fault condition test.
- 3) *: For fault where fuse opened, tested were repeat nine times and same result was obtained.
- 4)No ignition during and after all tests.

W

Reference No.: WTF21D10112623Y Page 55 of 56

THE WALLE	mry mr mr	IEC/EN 623	368-1	MULLER 1	Will Mills
Clause	Requirement – Test	Write Will My	Result – Remark	at .	Verdict

Olause	requireme	JIII - 1031	- "11 - 12".		resuit	. – Meman	٧-	15 1	verdict
21/2° 1	11, 21,	- 4		<u> </u>	F STEE	all Life and	V15, "14,	" "	2/1/2
Annex M	TABLE: B	atteries	write we	211.	-20,		4 2	£ 6	N/A
The tests of	f Annex M a	re applica	able only whe	n appropri	ate battery	data is no	t available	June 1	N/A
Is it possible	e to install th	he battery	in a reverse	polarity po	sition?:	iek unite	It is import to install battery in reverse position	the n a	N/A
	Non-re	chargeab	le batteries		F	Rechargea	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	ed charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
1) Imax in normal condition	un li Ek	TLEK ON	TEK WINTER	MUTT. 1	ner un sex acti	A CATTER	anitest .	WILER M	ITEK WILL
2) Imax in fault	LIEK-WIN	EK WILT	MUTIL M	11. M. 11. Th	L IEK WITEK	antrest o	nlie <u>k</u>	IEK WIL	on Tex
3) Imax in fault	- Mulite	MUTTE	MULL AUS	- TEK	Mr. Tak	LIFE WA	iek <mark>-</mark> mili	- united	WINLTER V
Test results	i: \ \ \	V //	et st	antile.	in.	3	Apr.	70 E	Verdict
- Chemical	leaks		-3.11	7£ _	et le	10	The _	CLIFE AU	LIE WALL
- Explosion	of the batte	ry	t liter of	NITE WAL	in the	m	2, 2		الان ب
- Emission	of flame or e	expulsion	of molten me	tal	+ ZEX	TEK.	ان الله	TEN INCO	WILL
- Electric st	rength tests	of equipr	ment after con	npletion of	tests	29, 20,			J.
Supplemen	tary informa	ation:	CIL ST	٠	,et	All S	Et Jule	10176	Will all
10. 0	•			- AV		V		· (A)	2

	able: A atteries	dditional safegua	rds for e	equipment co	ontaining seco	ndary	lithium	N/A
Battery/Cell No.		Test conditions				Observation		
				U	I (A)	Те	mp (C)	
		- TIEF WILLER MILL		mr m	- m - m - m			
Write Muse		70, 20,	d	18t - 18	LIFE NI	1.	il with	- me m
Supplementa	ry Inforn	nation:	Vr. 1	100 210	10, 1,		+ .6	t det d
Battery identification		harging at T _{lowest} (°C)	Obs	ervation	Charging at T _r (°C)	nighest	Ot	oservation
-"non "no	11/1	, 1 1	, di	t- 15	JET JET	CLIE	MILITE.	WE WE
Supplementa	ry Inforn	nation:	MILL	21/2 11/	10, 1		.4.	at at



Reference No.: WTF21D10112623Y Page 56 of 56

rÉ	MUCH	Mr. Air Air	IEC/EN 623	68-1	Wing and
(Clause	Requirement – Test	Will MULL AND	Result – Remark	Verdict

Annex Q.1	TABLE: Circuits i	ntended for inte	rconnection	with building	wiring (LPS)	N/A	
Note: Meas	ured UOC (V) with a	II load circuits dis	connected:	LITER MIT	in with whi	20,00	
Output	Components	U _{oc} (V)	I _{sc} (A)		S (\	/A)	
Circuit			Meas.	Limit	Meas.	Limit	
et Jet	-LIFE OLIFE NO	The Maria Maria	. 47.	- A	et - let	16th 10	
	<u> </u>	, ,,, ,,,	- Jack	de desire	11 TILL 1	nn.	

T.2, T.3, T.4, T.5	TABLE: Steady	force test			
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Enclosure	Plastic	Min.2.5	250N	5 mil	Enclosure remained intact.

T.6, T.9 TAI	BLE: Impact te	sts		THE LIFE ALT P OF
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation
Тор	Plastic	Min.2.5	1300	No damage, no hazard
Side	Plastic	Min.2.5	1300	No damage, no hazard
Bottom	Plastic	Min.2.5	1300	No damage, no hazard

T.7- T	ABLE:	Drop tests	Mr. An.	at at at at	N/A
Part/Locati	ion	Drop No.	Drop Height (mm)	Observation	
Et JEE (LITER .	Write Murit Muri	14. 14. 1	at left test "test is	TEK OLIEK
Supplementary	y inform	nation:	WILL WILL WILL	Mer Mer Mer Me	

T.8 T.	ABLE: Stress reli	ef test	LIFE CLIER	UNLIE WALTE	We Aug Aub
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclosure	Plastic	Min.2.5	70 met	WALTER WILL	No damage, no hazard
Supplementary	information:	- 40°	. It let	TEX STEX	CHIEF WILL WALLE

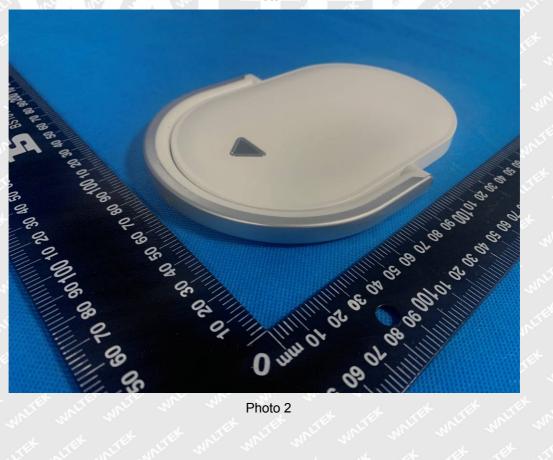


Page 1 of 4

Photo Documentation



Photo 1



Page 2 of 4

Photo Documentation





Photo 3

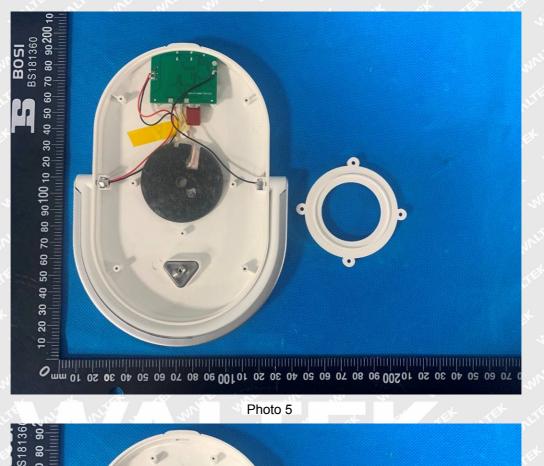


Photo 4

Page 3 of 4

Photo Documentation





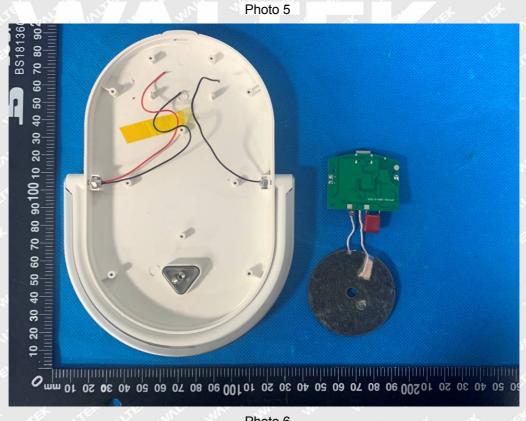


Photo 6



Photo Documentation

Reference No.: WTF21D10112623Y



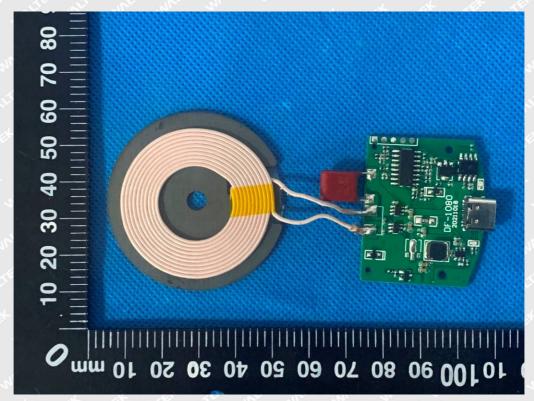


Photo 7

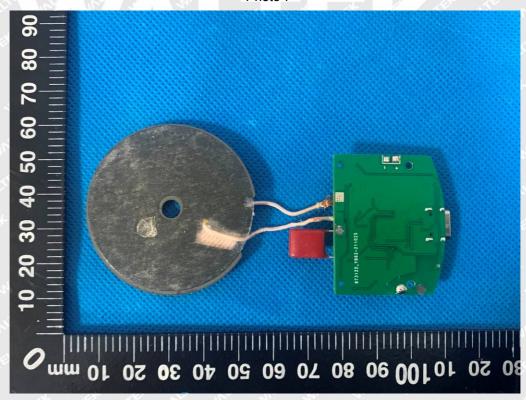


Photo 8

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



TEST REPORT

Reference No	 WITEGAEAGAAGGGAI
1/616161106 140	WTF21F10112701L

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

Hong Kong

Manufacturer: 114538

Address: : --

Product Name...... Desk light wireless charger

Model No. : MO6514

Standards.....: Luminaires

Part 2-4: Portable general purpose luminaires

IEC 60598-1:2020 IEC 60598-2-4:2017

Date of Receipt sample : 2021-11-12

Date of Test 2021-11-12 to 2021-11-24

Date of Issue..... : 2021-12-06

Test Report Form No. : WSL-6059824A-02A

Test Result..... : Pass

Remarks:

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

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Compiled by:

Approved by:

Nicole He / Project Engineer

Jerry Mu / Manager



Reference No.: WTF21F10112701L Page 2 of 62

Test item description : Desk light wireless charger

Trade Mark : MOB

Model/Type reference : MO6514

Ratings : SELV 5Vdc or 9Vdc, LED 9W, Class III, IP20, wireless charger:
Max. 10W

Copy of marking plate:

MOB/MO6514 PO BOX644 6710 BP(NL) LED 9W Made in China Frequency range: 100-205kHz
Wireless Output Power: 10W Max

Input: 5V==2A/9V==2A

Output: 5V==1A/7.5V==1A/9V==1.1A

5MM



RoHS **⋘**

7MM

On the luminaires surface

Remark:

- 1. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.
- 2. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

Summary of testing:

- 1. All tests were carried out on the representative model MO6415, and found to comply with the requirements of the standards mentioned in page one.
- 2. EN deviation for IEC 60598-2-4:2017 and IEC 60598-1:2020 was considered and found to comply with the requirement.
- 3. The touch switch were assessed acc. to EN 61347-2-11:2001+A1:2019, EN 61347-1:2015+A1:2021 and Australia deviation of AS/NZS 61347.1:2016+A1:2018, and the test result was found to comply with the requirement. And switch was tested with appliance for 10000 cycles operating test according to IEC 61058-1-1:2016 and found to comply with the requirement.
- 4. Integral LED module was assessed according to IEC 62031:2018 and found to comply with the requirement.
- 5. Retinal blue light hazard was assessed according to IEC/TR 62778:2014, lamp classification group: RG0 unlimited.
- 6. Photobiological safety was assessed according to EN 62471:2008, classification group: exempt⊠ risk 1 risk 2 risk 3 .
- 7. Wireless charger was assessed according to EN 62368-1:2014+A11:2017, see Waltek report WTF21D10112623Y.
- 8. Assessment of lighting equipment related to human exposure to electromagnetic fields was evaluated and fulfilled the requirements of EN 62493:2015 and found to comply with the requirement.
- 9. Only the most unfavorable results are recorded in this report.



Reference No.: WTF21F10112701L Page 3 of 62

Test items particulars:

Possible test case verdicts:

- test case does not apply to the test object N (Not applicable)

General remarks:

"(see remark #)" refers to a remark appended to the report.

Throughout this report a point is used as the decimal separator.

General product information:

Portable general purpose luminaires. For indoor use only and suitable for mounting on the normally

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[&]quot;(see appended table)" refers to a table appended to the report.

Reference No.: WTF21F10112701L Page 4 of 62

- 23	IEC 60598-2-4	y my my my	
Clause	Requirement + Test	Result - Remark	Verdict
4.4 (0)	GENERAL TEST REQUIREMENTS	THUN THE THE	Р
4.4 (0.3)	More sections applicable:	Yes No Section/s:	31
4.4 (0.5)	Components	(see Annex 1)	
4.4 (0.5)	Components Information for luminaire design in light sources s	, ,	J - J
4.4 (0.7)			
4.4 (0.7.2)	Light source safety standard:	IEC 62031	- Jet
2/100	Luminaire design in the light source safety standard	White Man and and	Р
- 15 C	CITE STILL WITH SHEET SHEET SHEET	and the literal states	J. C. S.
4.5 (2)	CLASSIFICATION OF LUMINAIRES	and the the the	Р
4.5 (2.2)	Type of protection:	Class III	Р
4.5 (2.3)	Degree of protection:	IP20	
4.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes ⊠ No □	WALLE .
4.5 (2.5)	Luminaire for normal use:	Yes ⊠ No □	1500
z1, .	Luminaire for rough service:	Yes □ No ⊠	
4.5.1 (-)	Ordinary luminaire classified "for indoor use only":	Yes ⊠ No □	18 - 15 is
e s	Luminaires other than ordinary classified "for indoor use only":	Yes □ No ⊠	S - S - S - S - S - S - S - S - S - S -
F 704	Luminaires other than ordinary classified for "outdoor use" and "for indoor use":	Yes □ No ⊠	- T
4.5.2 (-)	Portable luminaire for outdoor use classified IPX4 or higher	WHITE WALL WILL WALL	N
4.5.3 (-)	Luminaires designed for standing on a floor or table classified as suitable for direct mounting on normally flammable surfaces	ALTER WALTER WALTER WALTER	Р
in an	and the state of the state of	The March Short Mark Au	40.
4.6 (3)	MARKING	a state of the state of	Р
4.6 (3.2)	Mandatory markings	They are the the	Р
STEP	Position of the marking	1 10 10 10 10 10 10 10 10 10 10 10 10 10	Р
20,	Format of symbols/text	aver any aver an	Р
4.6 (3.3)	Additional information	at at at at	Р
7	Language of instructions	English	Р
4.6 (3.3.1)	Combination luminaires	EX MALTEX MALTER MALTER MA	N
4.6 (3.3.2)	Nominal frequency in Hz	- tiet stiet stiet skrift	N



Reference No.: WTF21F10112701L Page 5 of 62

	IEC 60598-2-4	24 24 24	
Clause	Requirement + Test	Result - Remark	Verdict
77	the state of the s	The ship in	
4.6 (3.3.3)	Operating temperature	The might spirit at	RITER AND A
4.6 (3.3.5)	Wiring diagram	all the state of	et and set N
4.6 (3.3.6)	Special conditions	+ 1 1 1	N
4.6 (3.3.7)	Metal halide lamp luminaire – warning	Mus Aus Au	N
4.6 (3.3.8)	Limitation for semi-luminaires	mure mure mure	N
4.6 (3.3.9)	Power factor and supply current	HITEL MATTER MATTER AN	N
4.6 (3.3.10)	Suitability for use indoors	let whilet while while	N.S.
4.6 (3.3.11)	Luminaires with remote control	- This and the sention	WALLE WA
4.6 (3.3.12)	Clip-mounted luminaire – warning	the state attack	N N
4.6 (3.3.13)	Specifications of protective shields		N
4.6 (3.3.14)	Symbol for nature of supply		N
4.6 (3.3.15)	Rated current of socket outlet	Auto Mun Auto	N
4.6 (3.3.16)	Rough service luminaire	White White White	N
4.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	NITER WHITE WHITE W	N
4.6 (3.3.18)	Non-ordinary luminaires with PVC cable	TEX MUTER WATER MAI	N
4.6 (3.3.19)	Protective conductor current in instruction if applicable	t mark mark source	N. S
4.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	TET THE STEE	MALTER MALT
4.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	the state of	Р
4.6 (3.3.22)	Controllable luminaires, classification of insulation provided	in the same say	N
4.6 (3.3.23)	Luminaires without controlgear provided with necessary information for selection of appropriate component	the are the	N N



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Reference No.: WTF21F10112701L Page 6 of 62

	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
30	The state of the s	71/2 21/2 Ch	20 T
4.6 (3.3.24)	If not supplied with terminal block, information on the packaging	ALTER MATER MATER AN	N
4.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided	de se siste	N
4.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided	t it it it	- N
4.6 (3.4)	Test with water	15s	Р
· Letter	Test with hexane	15s /- /	P
25.	Legible after test	The Alex Alex	Р
(C) TO - 0)	Label attached	THE THE STREET	P
4.6.1 (-)	Luminaire not suitable for outdoor application	12 24 24 24	Р
The WAL	Required symbol	et out of the	Р
اد ا	Information in the instructions	20, 20, 2	Р
4.6.2 (-)	Outdoor use, socket outlet incorporated in the luminaire	WALTER WALTER WALTER	alers al N
de	Maximum power rating marked	S S S	N N

4.7 (4)	CONSTRUCTION	P
4.7 (4.2)	Components replaceable without difficulty	Р
4.7 (4.3)	Wireways smooth and free from sharp edges	P
4.7 (4.4)	Lampholders	and and
4.7 (4.4.1)	Integral lampholder	THE NUMBER OF STREET
4.7 (4.4.2)	Wiring connection	, N
4.7 (4.4.3)	Lampholder for end-to-end mounting	N N
4.7 (4.4.4)	Positioning	We we also
are .	- pressure test (N):	unite whit whit
nisek.	After test the lampholder comply with relevant standard sheets and show no damage	THE STATE OF N
TEK WATE	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	N N
+ 4	- bending test (N)	A A 5
2112	After test the lampholder has not moved from its position and show no permanent deformation	N N

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Position of the marking

Reference No.: WTF21F10112701L Page 7 of 62

	IEC 60598-2-4	and the same of the same of	
Clause	Requirement + Test	Result - Remark Verd	dict
20	The state of the s	The The An an a	
4.7 (4.4.5)	Peak pulse voltage	STEEL STEEL STREET STREET	N
4.7 (4.4.6)	Centre contact	the title state action in the	N
4.7 (4.4.7)	Parts in rough service luminaires resistant to tracking	the set of the set of	N
4.7 (4.4.8)	Lamp connectors	All	N
4.7 (4.4.9)	Caps and bases correctly used	antite plate when when the	N
4.7 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way	RETER WATER WATER OF N	N
4.7 (4.5)	Starter holders	ret inter attendant and N	N
الد ي	Starter holder in luminaires other than class II	74 24 2 1	N
all services	Starter holder class II construction	- The street street street	N
4.7 (4.6)	Terminal blocks	** * * * * * * * * * * * * * * * * * *	N-
1812 1	Tails	Life Street Mile Will All I	N
J.	Unsecured blocks	The state of the s	N
4.7 (4.7)	Terminals and supply connections	The The The	P
4.7 (4.7.1)	Contact to metal parts	The state of the s	P
4.7 (4.7.2)	Test 8 mm live conductor	A TO THE STATE OF	N.
100	Test 8 mm earth conductor	Mr. Mr. Mr. M. M. T.	N
4.7 (4.7.3)	Terminals for supply conductors	NUTER WRITER WRITER WRITER WILLIAM	N 3
4.7 (4.7.3.1)	Welded method and material	THE MATER MATER MATER WAS THE D	N
et de	- stranded or solid conductor		N
the.	- spot welding	init in and with	N
A CONT	- welding between wires	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
The s	- Type Z attachment	with the the the	N
Jet.	- mechanical test according to 15.6.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
24	- electrical test according to 15.6.3	recent and any and	N
ster st	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	at at at all a to	N
4.7 (4.7.4)	Terminals other than supply connection	The sure of the later of the la	N -
4.7 (4.7.5)	Heat-resistant wiring/sleeves	White white white who	N

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Reference No.: WTF21F10112701L Page 8 of 62

	IEC 60598-2-4	Cr. All the the	
Clause	Requirement + Test	Result - Remark	Verdict
4.7	Multi pala plug	and the state of t	N N
(4.7.6)	Multi-pole plug	Latter mitter anitheral	ALTER A PAIN
, t	- test at 30 N	· · · · · · · · · · · · · · · · · · ·	N
4.7 (4.8)	Switches	and the anite white show	P
et se	- adequate rating		P
ar.	- adequate fixing	LT WALL AND WALL	Р
Sept.	- polarized supply	a to the state of	N
	- compliance with IEC 61058-1 for electronic switches	MULTER WALL MADE	Р
4.7 (4.9)	Insulating lining and sleeves	CLIFE WILL WHILE WA	N S
4.7 (4.9.1)	Retainment	let stet stet stat	t N
اد یا	Method of fixing	to the second	N
4.7 (4.9.2)	Insulated linings and sleeves:	TER WHITE WHITE WHITE	N. N.
SALET S	Resistant to a temperature > 20 °C to the wire temperature or	MALTER WALTER WALTER W	N
State of	a) & c) Insulation resistance and electric strength		N
	b) Ageing test. Temperature (°C)	The same	N
4.7 (4.10)	Double or reinforced insulation	STE WALLE WILLIAM WALLE	N
4.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	ed atter nited water	N N
zet-	Safe installation fixed luminaires		A CN
21/2 21	Capacitors and switches	ALTER WALTE WALL WI	N
4.7 (4.10.2)	Assembly gaps:	TEX STEX WITH ANY	N
+ 0	- not coincidental	10. 20. 22.	N
, she	- no straight access with test probe	The selfer write white	N N
4.7 (4.10.3)	Retainment of insulation:	the returner	NET NET NET
4.	- fixed	Mr. An. An.	N
الله محكوم	- unable to be replaced; luminaire inoperative	TEX STEX OUTE AND	N
, L	- sleeves retained in position	n m n	L N
in aller	- lining in lampholder	CER REFER METER SHEET	N
4.7 (4.10.4)	Protective impedance device	A A St 5t	Net Net

Reference No.: WTF21F10112701L

Page 9 of 62

	IEC 60598-2-4	721	1
Clause	Requirement + Test	Result - Remark	Verdic
- A	The state of the s	"11" "11" "2" ""	-
SALCE S	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor	STEET STIFF SPLIES SPLIES	N
urek un	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)	n tex unitex water water of	N
er Ja	Capacitors comply with IEC 60384-14	x 12 12 12 13	N
. GEA	Resistors comply with test (a) in 14.2 of IEC 60065	The the the tele	N
4.7 (4.11)	Electrical connections and current-carrying parts	where have not any	Р
4.7 (4.11.1)	Contact pressure	White water with when I	Р
4.7 (4.11.2)	Screws:		N
100	- self-tapping screws	of the other side with	N
	- thread-cutting screws	the the the	N
4.7 (4.11.3)	Screw locking:	WALTER WALTER WHITE WALTER	N
Jet .	- spring washer	at all the title	N
	- rivets	-1 Elle 24 25	N
4.7 (4.11.4)	Material of current-carrying parts	E MILITE WALLE WALLE	Р
4.7 (4.14.7)	No contact to wood or mounting surface	A STATE WILLES SHITTER SHOULD	Р
4.7 (4.14.7)	Electro-mechanical contact systems	the state asset and the	P
4.7 (4.12)	Screws and connections (mechanical) and glands		Р
4.7 (4.12.1)	Screws not made of soft metal	n was the top to	N
2/1,	Screws of insulating material	the south south south south	Р
MILTER	Torque test: torque (Nm); part:	Screw fixed bottom cover: 0.5Nm	un! P
ILIZER - A	Torque test: torque (Nm); part:	Screw fixed enclosure: 0.5Nm	νР
	Torque test: torque (Nm); part:	With with white will a	N
4.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal	et lifet stret skiret skir	N
4.7 (4.12.4)	Locked connections:	at the test the state	N
3.0	- fixed arms; torque (Nm):	-are are an an	N

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Reference No.: WTF21F10112701L Page 10 of 62

	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdic
<u> </u>	Joseph aldou torgue (Nice)	10, 21, 32,	- N
11-75 A	- lampholder; torque (Nm):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
4.7	- push-button switches; torque 0,8 Nm:	2, 4, 4, 4,	N
4.7 (4.12.5)	Screwed glands; force (Nm):	Tek mirk anire ani	See All See N
4.7 (4.13)	Mechanical strength		* NS
4.7 (4.13.1)	Impact tests:	the set of the	N+
	- fragile parts; energy (Nm):	the suc suc.	N
(N ^{LTE} - N	- other parts; energy (Nm):	Col Citil Science Co	N
	1) live parts	1100 1100 1100 1100	N
the ship	2) linings	et ite ite ite	N
الم ا	3) protection	An An A	N
Min	4) covers	E STEEL STEEL WILLIAM	N
4.7 (4.13.2)	Metal parts have adequate mechanical strength	tet set siet	N'
4.7 (4.13.3)	Straight test finger		N
4.7 (4.13.4)	Rough service luminaires		N
200	- IP54 or higher	the write white which	N
- TEN	a) fixed	at the state	N
de.	b) hand-held	White white white	N N
30	c) delivered with a stand	A 10 10	N N
10 T	d) for temporary installations and suitable for mounting on a stand	and the the	N
4.7 (4.13.6)	Tumbling barrel		N
4.7 (4.14)	Suspensions, fixings and means of adjusting		unti NP
4.7 (4.14.1)	Mechanical load:		N N
Self-	A) four times the weight	to the second	√°N
1. 21	B) torque 2,5 Nm	Arrest Court Court Court	N
TER WALTER	C) bracket arm; bending moment (Nm):	it it it is	N
	D) load track-mounted luminaires	They are an	N
	E) clip-mounted luminaires, glass-shelve. Thickness (mm):	Milet Whitek Whitek	and and
	Metal rod. diameter (mm):	*	N

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Reference No.: WTF21F10112701L Page 11 of 62

4	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict

Olause	Trequirement i rest	Tresuit Tremain	VCIGIO
	The state of the s	747 74 74 74 74 74 74 74 74 74 74 74 74	4
SALCE TO	Fixed luminaire or independent control gear without fixing devices	THEY MITEL MILIER WHITEE	N
4.7 (4.14.2)	Load to flexible cables		N
4.	Mass (kg)	A The state of	,
" Water	Stress in conductors (N/mm²):	the rest of the south south	N
	Mass (kg) of semi-luminaire	4, 4,	N
11/10	Bending moment (Nm) of semi-luminaire:	atter street introduction	N
4.7 (4.14.3)	Adjusting devices:		J CEP
	- flexing test; number of cycles:	1500	Р
the state	- strands broken	0 - 30 - 30 - 30	Р
L 23	- electric strength test afterwards	the same of	Р
4.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	WILLEY WILL MILL MILL	N A
4.7 (4.14.5)	Guide pulleys	MITTER MATTER MATTER MATTER	N
4.7 (4.14.6)	Strain on socket-outlets	the state of the state of	N
4.7 (4.15)	Flammable materials		FIFE PARTY
	- glow-wire test 650°C	See Test Table 1.15 (13.3.2)	P
Chr.	- spacing ≥30 mm	STEE STEE WITH SHIP	N
, et	- screen withstanding test of 13.3.1	and the state of	N
160 2	- screen dimensions	ALTER ARTE MALL WHILE	N
jet :	- no fiercely burning material		Р
r 900	- thermal protection	the with more many m	N
et e	- electronic circuits exempted	. * * * * * * *	€ N _S ®
4.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N
TALE TO	a) construction	CLIEF WILL MILL WILL	N
	b) temperature sensing control		νN
	c) surface temperature	LITE MALL MALL WALL V	N
4.7 (4.16)	Luminaires for mounting on normally flammable surfaces		Y P
. J	No lamp control gear:	(compliance with Section 12)	P



Reference No.: WTF21F10112701L Page 12 of 62

	IEC 60598-2-4	The the the	
Clause	Requirement + Test	Result - Remark	Verdict
4	Provided with adaptor for a track meet the	E. The The An	N
	requirements for direct mounting on normally flammable surfaces	BY METER MILITED WHITE M	ALL AND A
4.7 (4.16.1)	Lamp control gear spacing:	WILLER WILLER WILLER WILL	N P
E	- spacing 35 mm	at the top the	N
-54,	- spacing 10 mm	With the the the	N
4.7 (4.16.2)	Thermal protection:	Tex writer writer writer	MIN N
No.	- in lamp control gear	e it it it.	√ J N
to. 2	- external	a with a win and and	N
Ser Si	- fixed position	at at at s	N
2,	- temperature marked lamp control gear	and and and other	N
4.7 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	W N
4.7 (4.17)	Drain holes	the street portest protection	NUTER IN N.
, et	Clearance at least 5 mm		, √N
4.7 (4.18)	Resistance to corrosion	Marie and	N
4.7 (4.18.1)	- rust-resistance	MARIE MARIE MARIE	N.
4.7 (4.18.2)	- season cracking in copper	THE METER MATTER MATTER	ar N
4.7 (4.18.3)	- corrosion of aluminium	et after meter meter un	N
4.7 (4.19)	Ignitors compatible with ballast	tet stat stat not	of N
4.7 (4.20)	Rough service vibration	ALL ALL ALL ALL	N
4.7 (4.21)	Protective shield	nite with the the	N
4.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps	The Marie Marie Marie 4	N
ho a	Shield of glass if tungsten halogen lamps	t Lift Willer Will My	N
4.7 (4.21.2)	Particles from a shattering lamp not impair safety	it the the	y N
4.7 (4.21.3)	No direct path	and the an	N
4.7 (4.21.4)	Impact test on shield	THE MULE WAS SHOWN	N

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Reference No.: WTF21F10112701L

Page 13 of 62

	IEC 60598-2-4	44 20 3	4
Clause	Requirement + Test	Result - Remark	Verdic
7	love is the state of the state	0 7 47 11 445 (40.00)	
	Glow-wire test on lamp compartment:	See Test Table 1.15 (13.3.2)	N
4.7 (4.22)	Attachments to lamps not cause overheating or damage	and the same of	N
4.7 (4.23)	Semi-luminaires comply Class II		N
4.7 (4.24)	Photobiological hazards		Р
4.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	Inter White White White	N
4.7 (4.24.2)	Retinal blue light hazard	STEP BUTCH MUTCH MASTER.	Р
TEK NAT	Class of risk group assessed according to IEC/TR 62778	RG0 unlimited	C Ed
	Luminaires with E _{thr} :		N
" ALIZE	a) Fixed luminaires	t gight night might shift	N
	- distance x m, borderline between RG1 and RG2:	40 - 20 - 2	N
are a	- marking and instruction according 3.2.23	THE STATE WITH THE	N
est-	b) Portable and handheld luminaires		N
ner sur	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778	The Marie Marie of	N
WALL LEY	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778	White white whi	N
4.7 (4.25)	Mechanical hazard		Р
11-5	No sharp point or edges	THE REPORTER WITE WITE	Р
4.7 (4.26)	Short-circuit protection	the the state state of	N
4.7 (4.26.1)	Adequate means of uninsulated accessible SELV or PELV parts		N
4.7 (4.26.2)	Short-circuit test with test chain according 4.26.3	Whi who was the	N
Apr.	Supply source ES1 PSE	WHITE WHITE WHITE WAS	N
Kelt.	Test chain not melt through	a se st st	N
Cif. (1)	Test sample not exceed values of Table 12.1 and 12.2	The filth the thing the	N
4.7 (4.27)	Terminal blocks with integrated screwless protect	ive earthing contacts	N
. July	Test according Annex V	- THE STATE STATE SOLD	N
	Pull test of terminal fixing (20 N)	m. m. m.	N



Reference No.: WTF21F10112701L Page 14 of 62

300	IEC 60598-2-4	in the same in	
Clause	Requirement + Test	Result - Remark	Verdict
4,	the state of the s	They are the ten	
.50	After test, resistance < 0,05 Ω	at at all all	N
20, 0	Pull test of mechanical connection (50 N)	are my me me	N
-57 CF -10	After test, resistance < 0,05 Ω	At the the the	N
	Voltage drop test, resistance $< 0.05 \Omega$	or any are any	N
4.7 (4.28)	Fixing of thermal sensing control		N
· Jack	Not plug-in or easily replaceable type	at the set set	N
20	Reliably kept in position	there are the the	Ν
antier a	No adhesive fixing if UV radiations from a lamp can degrade the fixing	REFER MATER WALTER WASTER	N
d i	Not outside the luminaire enclosure	a de de de .	N
24	Test of adhesive fixing:	The whole they they the	N
jt 50	Max. temperature on adhesive material (°C):	a de de de de	· 50
-7,,	100 cycles between t _{min} and t _{max}	and any and an	N
30	Temperature sensing control still in position	at all all after	N
4.7 (4.29)	Luminaires with non-replaceable light source		N
is in	Not possible to replace light source	The state of	N
TEK JULI	Live part not accessible after parts have been opened by hand or tools	E CHE WILL WHITE WAY	N
4.7 (4.30)	Luminaires with non-user replaceable light source		P
NO CO	If protective cover provide protection against electric shock and marked with "caution, electric shock risk" symbol:		N
, · ·	At least one fixing means requiring use of tool	Class III	N
4.7 (4.31)	Insulation between circuits	LIER WHITER WHITER WHITER WE	P
est white	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	the market analytical analytical	N
MULTER	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3	MULTER WALTER WALTER	N -
4.7 (4.31.1)	SELV or PELV circuits	With Marin Auth Marin a	Р
in and	Used SELV or PELV source	EX STER STER SHIP SHIP	Р
+ <i>d</i>	Voltage ≤ ELV	A	P
11/1	Insulating of SELV or PELV circuits from LV supply	THE LIFE WITH WITH	Р



Reference No.: WTF21F10112701L Page 15 of 62

L 1	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
MITER	Insulating of SELV or PELV circuits from other non SELV or PELV circuits	ifted stated stated admitted	N
	Insulating of SELV or PELV circuits from FELV		N
7. "h	Insulating of SELV or PELV circuits from other SELV or PELV circuits	TER WILLS SHOTT WATER SHOT	N
W.C.	SELV or PELV circuits insulated from accessible parts according Table X.1	MILITER WALTER WALTER WALL	Р
SINITE.	Plugs not able to make any electrical contact with socket-outlets of other voltage systems	White white white shite	N
INITEH SI	Socket outlets does not admit plugs of other voltage systems	acties wites and est success w	J. N
itest and	Plugs and socket-outlets does not have protective conductor contact	et stet stat nistet ski	N N
4.7 (4.31.2)	FELV circuits	r ist right state to the	N
-4"	Used FELV source	Auto Auto Auto Auto	N
Witter.	Voltage ≤ ELV	let let little soften	N
7.	Insulating of FELV circuits from LV supply	The April Mr. Mr.	N
rete in	FELV circuits insulated from accessible parts according Table X.1	MILITER WHETE AN	N
SEIN GALLY	Plugs not able to make any electrical contact with socket-outlets of other voltage systems	CONTRACTOR MALTER WALL	N
A THEFT EN	Socket outlets does not admit plugs of other voltage systems	the the still stille	N
.+	Socket-outlets have protective conductor contact	an a start	N
4.7 (4.31.3)	Other circuits	INTER MUTER WILLE WILL V	Р
r _{ee} and	Other circuits insulated from accessible parts according Table X.1	TEX WRITER WRITER WRITER WA	Р
ek ontre	Class II construction with equipotential bonding for protwith live parts:	tection against indirect contacts	N
At	- conductive parts are connected together	a st st st	N
3/10	- test according 7.2.3	WILL WILL AND AND	N
N ^{ISEN} W	- conductive part does not cause an electric shock in case of an insulation fault	THE SITES WITTEN AND THE AND	N
A .	- equipotential bonding in master/slave applications		+ N
i inc	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	E WILL MALL MALL WALL	N
· Silv	- slave luminaire constructed as class I	- 18 18 18 18 N	N



Reference No.: WTF21F10112701L Page 16 of 62

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

4.7 (4.32)	Overvoltage protective devices		√ N
	Comply with IEC 61643-11		N
r, m	External to controlgear and connected to earth:	LIFE MITE WALLE WALLE	N
et de	- only in fixed luminaires		N
al.	- only connected to protective earth	SIRLY SHILL	N
4.7 (4.33)	Luminaire powered via information technology communication cabling		P
24	Requirements for Class III luminaire	State of the state of	Р
15. 21	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector	RELIEF MINITE MINITE MINE	Р
are whi	Luminaire does not create any hazard from overvoltage	(see Annex 2)	Р
4.7 (4.34)	Electromagnetic fields (EMF)	* White White white of	JIE WE
A Contract of the Contract of	No harmful electromagnetic fields	3 B B S	P
4.7 (4.35)	Protection against moving fan blades		N
ve in	Test with a standard test finger	The Child Mail	SV N
reik unit	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire	The state of	N.
الحار ال	Blades rounded with radius ≥ 0.5 mm and:	30 30 3	N.
"ILES.	- hardness less than D60 Shore	THE STIE WITE ON	N
.+	- peripheral speed less than 15 m/s	All All A	, N
412 4	- input power of fan ≤ 2 W at rated voltage	THE WIFE WILL WALL	N
4.7 (4.36)	Track-mounted luminaires	tel tel stee steel states	uni (Et N
ek atte	Test in accordance with Annex A of IEC60570:2003/AMD2:2019	the set set	N.
4.7.1 (-)	Insulation not damaged when moving, adjusting or placing on support	the the the	Р
4.7.2 (-)	Wiring fixed, to avoid rubbing	meet the the the	Р
nizek w	Carrier or clips of insulation material or with insulating lining	LIET RUFET MALIER WALTER	_U T P
4.7.3 (-)	Luminaire does not overturn:		P
110	- at an angle of 6° for indoor use	the specific specific specific	Р
+ 50°	- at an angle 15° for outdoor use	and the state of	N
4.7.4 (-)	Candlestick luminaires provided with switch	WILL PULL THE THE	N



Reference No.: WTF21F10112701L Page 17 of 62

	IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict	
- a	The state of the s	The The Mr. M.		
WINTER O	Switch in candlestick luminaires with E5 or E10 lampholders switches all lamps on and off simultaneously	antick whitek whitek whiteh	N	
Tree "AU	Switch part of the luminaire or within 300 mm of the luminaire if with cord	LIER WILLER SHITE WILLER	N	
4.7.5 (-)	Voltage not exceeding 25 V for E5 lampholders	at the set seems	N	
-6.	E10 lampholder voltage:	my my m m	N	
· Letter	- not exceeding 60 V for series connection	ath oth other	N	
	- not exceeding 250 V for parallel connection	They are the an	N	
arian d	Maximum rated wattage does not exceed 100 W	the the state of the	N	
4.7.6 (-)	Tails not provided for luminaires for outdoor use	by the the	N	
4.7.7 (-)	Not more than two cable entries for luminaires for outdoor use	LET MULTER MULTER MULTER AN	N	
4.7.8 (-)	Portable luminaires for outdoor use, socket-outlet degree of protection at least same as the luminaire but not less than IPX4.	Whitek whilek whilek whi	N N	
Mer.	Degree of protection maintained with or without a plug inserted into the socket-outlet.	White Militer White White	N	
recent out	Class II luminaires, mains socket-outlets comply with the standard and only allow connection to Class II luminaires	Mariter marie	N	
t July	Class I luminaires, mains socket-outlets comply with the standard and only allow connection to Class I or Class II luminaires	THE THE THE THE	N et	
4.7.9 (-)	Lampholders and plugs resistant to tracking for luminaires for outdoor use	See Test Table 4.16 (13.4)	N	
21/2 -2	Compliance to clause 13.4	NET THE WAY	N	

4.8 (11)	CREEPAGE DISTANCES AND CLEARANCES	brite white man and	P
4.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II Category III	
Let.	Category III according Annex U	The state of	N
A.	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1	MULL MULL MULL SILVE	N
4.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 4.8 (11.2) I	Р
The Marie	Creepage distances for frequency over 30 kHz:	at the title sitter and	N
+	- Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 4.8 (11.2) II	N
70	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 4.8 (11.2) II	Ν



Reference No.: WTF21F10112701L Page 18 of 62

	IEC 60598-2-4				
Clause	Requirement + Test	Result - Remark	Verdict		
4.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 4.8 (11.2) I	Р		
	Clearances distances for frequency over 30 kHz	Str. Co.	N		
to the	- Controlgear marked with U _P	See Test Table 4.8 (11.2) II	N		
IEM NINET	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 4.8 (11.2) II	N		

4.9 (7)	PROVISION FOR EARTHING	THE REST OF STREET
4.9 (7.2.1 + 7.2.3)	Accessible metal parts	Rittle White White
oth si	Metal parts in contact with supporting surface	A A A A A A A A A A A A A A A A A A A
	Resistance < 0,5 Ω	Mer all all N
1 July 1988	Self-tapping screws used	F Set Set Set Set N
	Thread-forming screws	The The A
Note:	Thread-forming screw used in a grove	THE STATE WATER WATER
	Protective earth makes contact first	N N
Vere sin	Terminal blocks with integrated screwless protective earthing contacts tested according Annex V	Maritin Mariti
TER WILL	Protective earthing of the luminaire not via built-in control gear	The state of the s
4.9 (7.2.2 + 7.2.3)	Protective earthing continuity in joints, etc.	WALTER WALTER STREET
4.9 (7.2.4)	Locking of clamping means	ALTER MALTER MALTE MALTE WILLIAM
Section 1	Compliance with 4.7.3	THE REPORT OF N
4.9 (7.2.5)	Earth terminal integral part of connector socket	N AND THE REST OF THE PARTY OF
4.9 (7.2.6)	Earth terminal adjacent to mains terminals	THE STATE SHEET WAS AND AND
4.9 (7.2.7)	Electrolytic corrosion of the protective earth terminal	Martie Marie Marie Marie Marie
4.9 (7.2.8)	Material of protective earth terminal	STEEL WHITE WHITE WE THEN
ster Li	Contact surface bare metal	A A A SE SE N
4.9 (7.2.10)	Class II luminaire for looping-in	N N
- The	Double or reinforced insulation to functional earth	CLIT SIN'S SIN'S SIN'N

Reference No.: WTF21F10112701L

	IEC 605	98-2-4	
Clause	Requirement + Test	Result - Remark	Verdict
4.9 (7.2.11)	Protective earthing core coloured green-yell	ow	COL DE N
	Length of protective earthing conductor	24	, N
4.9 (7.2.12)	PELV circuit connected to protective earth for functional purpose	Dr. The same state of the same	N
EL MILES	Aller Aller Aller Aller	at the tell after with	where where
4.10 (14)	SCREW TERMINALS	in the same	+ N+
2400	Separately approved; component list	: (see Annex 1)	N N
J.	Part of the luminaire	: (see Annex 3)	N N

Page 19 of 62

4.10 (15)	S) SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N
A 140	Separately approved; component list:	(see Annex 1)	N
4 50	Part of the luminaire:	(see Annex 4)	N

4.11 (5)	EXTERNAL AND INTERNAL WIRING		P
4.11 (5.2) 4.11 (5.2.1)	Supply connection and external wiring		Р
	Means of connection	DC inlet	P
AND THE	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment	To white white white	N William
4.11 (5.2.2)	Type of cable:	see Annex 1	united to sit N
et .	Nominal cross-sectional area (mm²)	see Annex 1	N
s 24	Cables equal to IEC 60227 or IEC 60245	hile while the th	N
4.11 (5.2.3)	Type of attachment, X, Y or Z	it riter miter unit	N N
4.11 (5.2.5)	Type Z not connected to screws	- Jest Just Miles	N N
4.11 (5.2.6)	Cable entries:	At the Thin	P
	- suitable for introduction	they are the to	Р
TET INT	- adequate degree of protection	et set set s	P.
4.11 (5.2.7)	Cable entries through rigid material have rounded edges	and the second	P
4.11 (5.2.8)	Insulating bushings:	me me m	N

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Reference No.: WTF21F10112701L Page 20 of 62

	IEC 60598-2-4				
Clause	Requirement + Test	Result - Remark	Verdict		
10	- suitably fixed		N		
21 21	- material in bushings	THE WALL WITH THE	N		
A C	- material not likely to deteriorate	2 2 2 2	N.		
74	- tubes or guards made of insulating material	ALL CALLES AND AND	N		
4.11 (5.2.9)	Locking of screwed bushings	is a writer writer writer	unit N		
4.11 (5.2.10)	Cord anchorage:	et sites mites anites	N N		
J. S.	- covering protected from abrasion	10 T 1	N		
West of the	- clear how to be effective	RUPE INTER WAITE	N		
18 X	- no mechanical or thermal stress		, N		
- 100	- no tying of cables into knots etc.	NATES STATE SHOULD WALL	N		
y Jely	- insulating material or lining	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N N		
4.11 (5.2.10.1)	Cord anchorage for type X attachment:		N-		
•	a) at least one part fixed	alegy and and	N		
Marie Marie	b) types of cable	A STATE IN	N		
	c) no damaging of the cable		N		
in The	d) whole cable can be mounted	THE LIFE MET MITTER	N		
الحرر الم	e) no touching of clamping screws	30 40	N.		
Shrin.	f) metal screw not directly on cable	ed Title Utilia Will	N		
. E.	g) replacement without special tool	- L A	N		
40 21	Glands not used as anchorage	RITER WATER WALL AND	N		
set 3	Labyrinth type anchorages	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ot N		
4.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	The solution when the	N N		
4.11 (5.2.10.3)	Tests:	A TEA STEA WITE	N ^t		
J.	- impossible to push cable; unsafe	W W	N N		
ho an	- pull test: 25 times; pull (N):	LITER MATER SALIFF SAN	N		
de d	- torque test: torque (Nm):	4 4 4	* N		
100	- displacement ≤ 2 mm	STAN WILL SHOP MALE	N		
+ 30	- no movement of conductors	. A A A	N		
2/1	- no damage of cable or cord	IF WILL MULT SHEET	N		



Reference No.: WTF21F10112701L Page 21 of 62

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

30	- function independent of electrical connection	at at an
4.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with maximum current of	2A: N
ek mitel	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC	N. C.
N.L.T.E.R.	- Ordinary Class III luminaire supplied with PELV ≤ 12V RMS/30V DC	N ⁺
SEP	- Other than ordinary Class III luminaire supplied with voltage ≤ 12V RMS/30V DC	N N
11. 22.	Pull test of 30 N	N
4.11 (5.2.11)	External wiring passing into luminaire	uniter unit
4.11 (5.2.12)	Looping-in terminals	netter metel in Nº
4.11 (5.2.13)	Wire ends not tinned	The state of P
	Wire ends tinned: no cold flow	N
4.11 (5.2.14)	Mains plug same protection	Maria Na
EF ILIE	Class III luminaire plug	N.
	No unsafe compatibility	N
4.11 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)	ALTER AND THE N
4.11 (5.2.16)	Appliance inlets (IEC 60320)	et state of N
all 3	Installation couplers (IEC 61535)	N
~ 2n	Appliance inlet or connector systems (IEC 61984)	The N
4.11 (5.2.17)	No standardized interconnecting cables properly assembled	NY NY
4.11 (5.2.18)	Used plug in accordance with	Set Set N
	- IEC 60083	N
لاروبي اللاد	- other standard	N
4.11 (5.3)	Internal wiring	THE NEW YORK
4.11 (5.3.1)	Internal wiring of suitable size and type	Р
apr.	Through wiring	N Str



Reference No.: WTF21F10112701L Page 22 of 62

Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
4et	- not delivered/ mounting instruction	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S SN
11. 1	- factory assembled	mile and the the	N
50 m	- socket outlet loaded (A):	at at at s	N
	- temperatures:	(see Annex 2)	N
er nice	Green-yellow for protective earth only	of the text states	N
4.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring	The All Al	N -
24.	Cross-sectional area (mm²):	see Annex 1	N
Ter.	Insulation thickness (mm):	at at at	Je Jen
1. 2	Extra insulation added where necessary	their when the the	N
4.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal cu	urrent-limiting device	P
المحالي الم	Cross-sectional area (mm²):	see Annex 1	P
4.11 (5.3.1.3)	Double or reinforced insulation for class II		N
4.11 (5.3.1.4)	Conductors without insulation		N
4.11 (5.3.1.5)	SELV or PELV current-carrying parts		P
4.11 (5.3.1.6)	Insulation thickness other than PVC or rubber	TE MUTE WILL WHITE	WALL WILL
4.11 (5.3.2)	Sharp edges etc.	LIFE STEEL SECTION	P
	No moving parts of switches etc.	24, 24,	N
100 11	Joints, raising/lowering devices	ALTER MALTE MALL WA	N
d .	Telescopic tubes etc.		+ N
in the	No twisting over 360°	CIEN WILL MULT WILL	P. P.
4.11 (5.3.3)	Insulating bushings:	et screet marest sources	P
,d+	- suitable fixed	211 21	P-
Mr.	- material in bushings	CITE WILL A	Р
25	- material not likely to deteriorate	T	Jr √P
12 M	- cables with protective sheath	LITE WITE WALL WAS	P
4.11 (5.3.4)	Joints and junctions effectively insulated	Et SIFE SIFET MITE	K N
4.11 (5.3.5)	Strain on internal wiring	A B B	N.



Reference No.: WTF21F10112701L Page 23 of 62

	IEC 60598-2-4	
Clause	Requirement + Test Result - Remark	Verdict
4,		
4.11 (5.3.6)	Wire carriers	N
4.11 (5.3.7)	Wire ends not tinned	Р
	Wire ends tinned: no cold flow	N
4.11 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area	Р
unite.	Under test the temperature of the luminaire wiring insulation does not exceed the limits stated in Table 12.2	Р
الدورية الحارا	No damage to luminaire wiring after test	N P
4.11.1 (-)	Cord anchorage of luminaire for indoor use made of glass or ceramic not fixed or integral	
4.11.2 (-)	For Class I and Class II luminaires for indoor use, if:	N
MILLER	- mass < 1 kg (kg)	N
St.	- rated current ≤ 2,5 A (A):	N-
Aller 1	- cable length ≤ 2 m (m):	N
	- the nominal cross-sectional area of copper conductor ≥ 0,5 mm² (mm²):	N
4.11.3 (-)	Terminals, cord anchorage and inlet opening provided for luminaire for outdoor use delivered without a flexible cable or cord and a plug.	N STATE
4.11.4 (-)	Non-detachable flexible cables or cords not lighter than type 245 IEC 57 for Class I and Class II luminaires for outdoor use.	N. N. K

4.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK		N
4.12 (8.2.1)	Live parts not accessible	Class III	N
ex white	Basic insulated parts not used on the outer surface without appropriate protection	* INTER MATTER MATTER SHALL	N
MULTER.	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	SUPLIFIE SUPLIFIE WALTER SUPLIFIE	F N
Urizey A	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Lifet writer writer writer.	N
TER MINES	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	EX MILTER MILIER MILIER OF	N
. unite	Basic insulation only accessible under lamp or starter replacement	MILES WALTER WALTER WALTER	N

Reference No.: WTF21F10112701L Page 24 of 62

L+	IEC 60598-2-4		2 . AS
Clause	Requirement + Test	Result - Remark	Verdict
- 20	Protection in any position	711. 23. 2	of AN
41 - 21	Double-ended tungsten filament lamp	COLLEGE OF THE SHEET AND THE SHEET	N
A .	Insulation lacquer not reliable		N
~ ~~	Double-ended high-pressure discharge lamp	of the same	N
ek wate	Relevant warning according to 3.2.18 fitted to the luminaire	# MILTER MILITER MINITER	N
4.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position	street skitch skitch s	N N
4.12 (8.2.3.a)	Class II luminaire:	the the state of	N
	- basic insulated metal parts not accessible		N
The When	- required insulation from live parts in compliance with Table X.1	ter militer militer saliti	N N
MILLER	- glass protective shields not used as supplementary insulation	- Writer white	White Min
4.12 (8.2.3.b)	Metal BC lampholder in class I luminaires connected to protective earth		NOTE N
4.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		SET SET N
	Ordinary luminaire:		N
SALES.	- voltage under load/ no-load AC (V):	E TE STATE	N
	- voltage under load/ no-load DC (V):	Apr. Apr. A	N.
JINE .	- interrupted DC voltage (V):	LITER OLITER STATE	Jers July
	- touch current if applicable (mA):	the second	N
120 21	One conductive part insulated	ALTER MATE MALL WI	N
d .	Other than ordinary luminaire:		+ AN
in the	- voltage under load/ no-load AC (V):	the with mit, mu	N _c
y _{2}	- voltage under load/ no-load DC (V):		N.
20,	- interrupted DC voltage (V):	and and and	N
4.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:	ALTER MATER MALTER	n i N
25	Ordinary luminaire:	70, 7	N
in a	- voltage under load/ no-load AC (V):	STEE WILL SWILL MY	N
et s	- voltage under load/ no-load DC (V):	1 A St St	+ A N
, The	Other than ordinary luminaire:	White White while	N
+ 56th	- voltage under load/ no-load AC (V):	. A A A	N
211.	- voltage under load/ no-load DC (V):	are and any	Z ₁ N

Reference No.: WTF21F10112701L Page 25 of 62

		IEC 60598-2-4	
Clause	Requirement + Test	Result - Remark	Verdict

	Pole not connected to earth insulated	At At SN
The state of	Class III luminaire only for connection to SELV or PELV	All All A
4.12 (8.2.4)	Portable luminaire has protection independent of supporting surface	N N
4.12 (8.2.5)	Compliance with the standard test finger or relevant probe	
4.12 (8.2.6)	Covers reliably secured	untile untile unin
4.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μF not exceed 50 V 1 min after disconnection	UNITED WAITER WITEN
JEK ani	Portable luminaire with capacitor > 0,1 μF (0,25) not exceed 34 V 1 s after disconnection	LICE MILITER MANUEL N
t water	Other luminaires with capacitor $> 0.1~\mu F$ (0,25) with plug and track adaptors not exceed 60 V 5 s after disconnection	et writer write will
4.12 (-)	Class I luminaire with bayonet lampholder:	at at a
711	1) cap not accessible with test finger	N N
Jet .	2) metal lampholder is earthed	A A CN

4.13 (12)	ENDURANCE TEST AND THERMAL TEST		Р
4.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) but before (9.3) specified in 4.14		Trest.
4.13 (12.2)	Selection of lamps and ballasts		Tok.
110 21	Lamp used according Annex B	(Lamp used see Annex 2)	_ \$
de s	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	o ⁴ —
4.13 (12.3)	Endurance test	The sales will sales sales	Р
240	a) mounting-position:	As in normal used	7/1
At.	b) test temperature (°C):	35 °C	-
The s	c) total duration (h)	240 h	
Self-	d) supply voltage (V):	- so the state of	Sept.
Ση Λ 11. Αι	d) if not equipped with controlgear, constant voltage/current (V) or (A):	1.1 times rated voltage	t -3
1.13 (12.3.1d)	d) Class III luminaires powered via information techno	logy communication cable:	- 64 - 70
Sale of the last	- voltage under normal operation (V):	1.1 times rated voltage	3/2/2
1	- voltage under abnormal operation (V):	1.3 times rated voltage	4

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Reference No.: WTF21F10112701L Page 26 of 62

	IEC 60598-2-4	richarder Aller Aller	-31
Clause	Requirement + Test	Result - Remark	Verdict
20.	The state of the state of the state of	The The Sh	J
	e) luminaire ceases to operate	at at at	Ser Ser
· ·	f) luminaire with a constant light output function	The also the s	Р
4.13 (12.3.2)	After endurance test:	alifek unlifek anlifek and	Р
et e	- no part unserviceable	1 1 1 1 A	P
ale.	- luminaire not unsafe	The Mark State	Р
S. Carlot	- no damage to track system	at the set	N N
20	- marking legible	MULL MULL MULL	Р
The Party	- no cracks, deformation etc.	at all sales.	of the other
4.13 (12.4)	Thermal test (normal operation)	(Annex 2)	Р
4.13 (12.5)	Thermal test (abnormal operation)	(Annex 2)	N
4.13 (12.6)	Thermal test (failed lamp control gear condition):	MULTER MULTER MILITA	Wer. N
4.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A):	Maries Maries Maries	nure , inii
State St	- case of abnormal conditions:		56th 55th 5
	- electronic lamp control gear	- 1 Shr. m	N
for the	- measured winding temperature (°C): at 1,1 Un:		1 July 1
. Set	- measured mounting surface temperature (°C) at 1,1 Un:	the the top	N
41	- calculated mounting surface temperature (°C):	Mer aler ale	N
J.	- track-mounted luminaires	at all set	JON.
4.13 (12.6.2)	Temperature sensing control	and who we will	N N
S. Car	- case of abnormal conditions:	in the the the	74, -20,
it ite	- thermal link	at the title to the	N. N.
2,,	- manual reset cut-out	The are an	N
Chillian	- auto reset cut-out	- The The Ship	N. O. T.
	- measured mounting surface temperature (°C):	the the street	N
الد المعتدي	- track-mounted luminaires	THE THE STEE OF	N
4.13 (12.7)	Thermal test (failed lamp control gear in plastic lu	minaires):	N
4.13 (12.7.1)	Luminaire without temperature sensing control	THE WAS A	N

Reference No.: WTF21F10112701L Page 27 of 62

IEC 60598-2-4					
Clause	Requirement + Test	The state of	Result - Remark	NET E	Verdict

N — N — N N N N N — — — — — N
N — N N N
h N
h N
h N
N - N
sant sant <u>sa</u> nt
746 74 74 Th
RUE WALTE WALTER
iet unitet uni <u>te</u> t d
5 (13.2.1) N
VA N
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ITE CLIFE INCIDE.
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5 (13.2.1) N
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N
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N S
N — — — —



Reference No.: WTF21F10112701L Page 28 of 62

	IEC 60598-2-4					
Clause Requirement + Test Result - Remark		Result - Remark	Verdict			
- Self-	- case of abnormal conditions:	A A A A A	<u> </u>			
ali - C	- highest measured temperature of fixing point/ exposed part (°C)::	The same when the				
e un	Ball-pressure test::	See Test Table 4.15 (13.2.1)	N			
4.13 (-)	Luminaire for indoor use tested in overturned position (overturns < 15°)	Not overturn	N			

4.14 (9)	RESISTANCE TO DUST AND MOISTURE		Р	
4.14 (-)	If IP > IP 20 the order of tests as specified in clause 4	.13	et cN	
4.14 (9.2)	Tests for ingress of dust, solid objects and moisture:			
ight Cillian	- classification according to IP:	IP20	" +1	
+ 4	- mounting position during test:	As in normal used	28 - S	
21/2	- fixing screws tightened; torque (Nm):	- INCIE WILL WILL V	10, 10	
S. Carlo	- tests according to clauses:	9.2.0	at Let	
10,	- electric strength test afterwards	MULL MULL MULL SAL	Р	
Set o	a) no deposit in dust-proof luminaire		N	
, 2,	b) no talcum in dust-tight luminaire	and the same	N	
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	The state white	N.	
- INLTER	c.1) For luminaires without drain holes – no water entry	STIFF STIFF STIFF	NE SILVER	
NITER .	c.2) For luminaires with drain holes – no hazardous water entry	set iset uset wi	SELF STEEN	
TEK JUN	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold-water jet-proof luminaire	TER POTER MATER	N All	
+ ,4	e) no contact with live parts (IP 2X)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Р	
2/2	e) no entry into enclosure (IP 3X and IP 4X)	WALLE SALLY SALLY	N	
MILLEY.	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	THE STEEL STATES	UNION N	
NITET AN	f) no trace of water on part of lamp requiring protection from splashing water	The The Little Will	N N	
	g) no damage of protective shield or glass envelope	The The Shi to	N	
4.14 (9.3)	Humidity test 48 h	EX MILIER MILIER MILIER	, P	



Reference No.: WTF21F10112701L Page 29 of 62

24	2	IEC 60598-2-4	- Jan
Clause	Requirement + Test	Result - Remark	Verdict

4.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH				
4.15 (10.2.1)	Insulation resistance test	nett with with the	Р		
c. ² 1 ₀ ,	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø :	Covered by metal foil	Р		
" desi	Insulation resistance (MΩ):	et the the nites	P		
	SELV or PELV:	An an a	Р		
all the	- between current-carrying parts of different polarity:	STEEL WILL WITE WAY	N		
INLTER SN	- between current-carrying parts and mounting surface:	100 ΜΩ	Р		
5 ⁰⁰	- between current-carrying parts and metal parts of the luminaire:	100 ΜΩ	Р		
e water	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	t street market market and	N.		
J.	- Insulation bushings as described in Section 5:	70. 2	N		
SIL A	Other than SELV or PELV:	THE WITTER WITTER SHILL	N		
	- between live parts of different polarity:		N		
in the	- between live parts and mounting surface:	THE STATE WHILE	N		
ot st	- between live parts and metal parts:		N		
. July	- between live parts of different polarity through action of a switch:	Mariting Maring Maring	N		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	White White White We	N		
10 4	- Insulation bushings as described in Section 5:	with much and my	N		
4.15 (10.2.2)	Electric strength test				
y	Dummy lamp	and the state of	N		
ap.	Luminaires with ignitors after 24 h test	antile antile and a	N		
Sept.	Luminaires with manual ignitors	A 15 15 1	N		
	Luminaires with ignitors provided with ballasts conforming to IEC 61347-2-9	antit and and an	N		
لان ۱۲۰	SELV or PELV:	WITE WITE SHIFT WALL	Р		
et s	- between current-carrying parts of different polarity:		, N		
- ''''	- between current-carrying parts and mounting surface:	500V	Р		
en.c.	- between current-carrying parts and metal parts of the luminaire:	500V	Р		



Reference No.: WTF21F10112701L Page 30 of 62

	IEC 6	60598-2-4	70, 70
Clause	Requirement + Test	Result - Remark	Verdict

Marter.	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	ALTER MALTER WALTER	Ν
State of	- Insulation bushings as described in Section 5:	alt all atternation	N
	Other than SELV/PELV:	70 20 A	N
C WE	- between live parts of different polarity:	L LIER SLIER WILLER WITH	N
	- between live parts and mounting surface:	A11 A11 A	N
The same	- between live parts and metal parts:	LITER OUTER WITH MICH	N
nitek .	- between live parts of different polarity through action of a switch:	THE THE WHILE WITH W	N
JEK SUN	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	et intret antiet santiet ant	A N
<i>t</i> ,	- Insulation bushings as described in Section 5:	a at the second	N
4.15 (10.3)	Touch current (mA):	MULL MET MUL ME	N
W. C.	Protective conductor current (mA):	THE STIFF WITE SHIP.	N

4.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING				
4.16 (13.2.1)	Ball-pressure test:	See Test Table 4.16 (13.2.1)	Pare		
4.16 (13.3.1)	Needle-flame test (10 s):	See Test Table 4.16 (13.3.1)	Р		
4.16 (13.3.2)	Glow-wire test (650°C):	See Test Table 4.16 (13.3.2)	Р		
4.16 (13.4)	Proof tracking test (IEC 60112):	See Test Table 4.16 (13.4)	N		



Reference No.: WTF21F10112701L Page 31 of 62

3.0		IEC 60598-2-4	1817 115
Clause	Requirement + Test	Result - Remark	Verdict

4.8 (11.2)	TABLE I: C	reepage dista	nces and clea	rances			Р		
A 1	Minimum di	istances (mm) for a.c. up to	30 kHz sinu	soidal voltage	S	200		
ir, the	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2* and Table U.1*								
Distances	Insulation	Measured	Requ	uired	Measured creepage	Requir	ed		
	type **	clearance	clearance	*Table		creepage	*Table		
- Set	LIER RITE	White the	21/27 1		* 4	St St	- 36		
Working vo	oltage (V)			:	Carrier States	me me	_		
PTI				:	< 600 🗌	≥ 600 □	300		
Pulse volta	ge or <i>U</i> _P if ap	plicable (kV)		n:,i	2 " " " " " " " " " " " " " " " " " " "	L 10 .			
Supplemen	itary information	on: Class III wo	ork light, Max. i	nput 5VDC o	r 9VDC	CENT CEEPER OF	5 J		
	1	t st	TER STEE	WILL MILL	240, 240				
Working vo	oltage (V)	11/2 24		:	18th 150	E RUEL WILL	110		
PTI				:	< 600 🗌	<u>></u> 600 □	-		
Pulse volta	ge or <i>U</i> _P if ap	plicable (kV)		<i></i>	5 th 25 th	INTE WATER	10 m		
Supplemen	tary information	on:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-113					
ver and	NVA	7		OF B		of archive	N 1		
Working vo	oltage (V)		12 16	· · · · · · · · · · · · · · · · · · ·		+ 5-	, s ^t -,		
PTI	211 21			:	< 600 🗌	<u>></u> 600 □	-20		
Pulse volta	ge or <i>U</i> _P if ap	plicable (kV)		:	- 4 4	d d	- 3		
	tary information		t of s	TO THE	Will Mile	the the	4,-		
** Insulation	n type: B – Ba	sic; S – Suppl	ementary; R –	Reinforced. S	See also IEC 60	598-1 Annex M.	The state of the s		
24, -2,,		at at	50th 615	10.25	the state of	10	3.		
Working vo	oltage (V)			:	at all i	All Jan a	d		
PTI		<i></i>		:	< 600 🗌	<u>></u> 600 □	ر ا		
Pulse volta	ge or <i>U</i> _P if ap	plicable (kV)			· 51 th 51 th	THE THE	300		
	tary information		Et WILL SI	La Alexander	10, 10,				
4/			ementary: R –	Reinforced S	See also IFC 60	598-1 Annex M.	and "		



Reference No.: WTF21F10112701L Page 32 of 62

40		IEC 60598-2-4	70, 70
Clause	Requirement + Test	Result - Remark	Verdict

4.8 (11.2)	TABLE II: Creepage distances and clearances							
25° X	Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
in m								
Distances	Insulation	Measured	Required		Measured	Requi	red	
Distances	type ** clearance	clearance	clearance	*Table	creepage	creepage	*Table	
Distance 1:	LIE MITE	Who was	in the		A .0	- 15 3	* 3°	
Working vo	Itage (V)			:	MULTER WALL	245 245		
Frequency	if applicable (kHz)		:	A 15	All Services	J. C.	
PTI				:	< 600 🗌	≥ 600 □		
Peak value	of the workin	g voltage Û _{ou}	t if applicable (I	⟨V⟩:	t st	SE SEE .	at an	
Supplemen	tary information	on:	Ser Ser	They are	7/10, 21,	4, 4		
Distance 2:	anti anci	200 3	, ,,	1 1	. C. 5	the second	in the	
Working vo	Itage (V)			:	41, 21,			
Frequency	if applicable ((kHz)		,,,;;:::::::::::::::::::::::::::::::::	State State	CITE STATE	3/2	
PTI				:	< 600 🗌	≥ 600 □		
Peak value	of the workin	ig voltage Û _{ou}	t if applicable (I	(V):	W 1	received the second	1 3	
Supplement	tary information	on:	100			4 4	15	
Distance 3:	00 0		4 30	50 ST	Chill W	The state of	10	
Working vo	Itage (V)			······································		b & &	J. J.	
	120	0.000 8000	A		Marie Marie	The The	400	
				16 15 15 15 15 15 15 15 15 15 15 15 15 15	< 600 □	≥ 600 □	300	
The Marie			t if applicable (l	<u> </u>	. 300	<u>- 2000 []</u>	4,5	
	tary information		i applicable (i		A	A 30	J. C. C.	
	15.71		Jomanton (D	Dainforced	() () () () () ()	2, 20, 2	11. 24	
ilisulation	г type. Б – Ба	sic, s – supp	lementary; R -	Relitionced.				

Reference No.: WTF21F10112701L Page 33 of 62

IEC 60598-2-4					
Clause	Requirement + Test	Result - Remark	Verdict		

temperature (°C)	Impression diameter (mm
temperature (°C)	Impression diameter (mm
125.0	1.5
125.0	1.2
125.0	1.4
125.0	

4.16 (13.3.1) TABLE: Needle-flame test (IEC 60695-11-5)						
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict	
DC inlet	See Annex 1	10	No	0	Р	
Internal PCB	See Annex 1	10	No	0	Р	
LED board	See Annex 1	10	No	0	P	
Supplementary inform	nation:	Jet Siet Mil	White white	men we	- m	

4.16 (13.3.2)	TABLE: Glow-	BLE: Glow-wire test (IEC 60695-2-11)					
Glow wire	temperature	650°C	et let let e	cier incre	1 m		
	Part No./ erial	Manufacturer/ trademark	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict		
Lamp cover		See Annex 1	30	N S	Р		
Plastic enclosure of lamp part See Annex		See Annex 1	30	N	Р		
Plastic cover of		See Annex 1	30	N	Р		
Plastic enclosure of bottom See Annex		See Annex 1	30	N	P		
Touch switch button See Annex 1		See Annex 1	30	N	Р		



Reference No.: WTF21F10112701L Page 34 of 62

IEC 60598-2-4					
Clause	Requirement + Test	Result - Remark	Verdict		

4.16 (13.4) TABLE: Proof tracking test (IEC 60112)					
Test voltage PTI		" A WILL MULL AND MULL AND	7 - 5		
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens	Verdict		
at the right with a	Life white whi		ال ما الم		
Supplementary information:					





Reference No.: WTF21F10112701L Page 35 of 62

IEC 60598-2-4					
Clause	Requirement + Test	Result - Remark	Verdict		

	ANNE	EX 1 components				P
object/part No.	code	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
DC inlet	В	NANTONG ORIENT PLASTICS CO LTD	3080 G(zz)	V-0; PBT	Thr. Aur	UL E332375
Internal wire	В	SHENZHEN DINGYU ELECTRICAL TECHNOLOGY CO LTD	2464	300V; 22AWG, 80°C,	Siet Milet se	UL E365423
Internal PCB	В	KINGBOARD LAMINATES HOLDINGS LTD	KB-5150	130°C	 E MILIER WALT	UL E123995
Wireless charger	В	Mid Ocean Brands B.V.	MO-6514	Input:5V or 9Vdc,2A; Wireless output: 5 or 7.5Vdc,1A; or 9Vdc 1.1A	EN 62368-1	WTF21D101 12623Y
LED	В	Shenzhen JiaTe Co., Ltd.	2835	I _F =60mA; 6000- 8000K	IEC/TR 62778 EN 62471	Tested with appliance
LED board	В	Shenzhen Hecheng Fast Electronic Technology Co Ltd	1	V-0	anir mi	UL E159194
Lamp cover, plastic enclosure, touch place, switch for wireless charger	B	LG CHEM LTD	AF312C	ABS;V-0	TEL SUITER	UL E67171

The codes above have the following meaning:

- A The component is replaceable with another one, also certified, with equivalent characteristics
- B The component is replaceable if authorised by the test house
- C Integrated component tested together with the appliance
- D Alternative component



Reference No.: WTF21F10112701L Page 36 of 62

IEC 60598-2-4					
Clause	Requirement + Test	Result - Remark	Verdict		

ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12				
The State	Type reference	MO6514	50t-		
	Lamp used:	LED	(a) = 0.		
and the	Lamp control gear used:	+ 10 50 250 0	See See		
	Mounting position of luminaire:	Acc. to user manual	ule Tole		
الله المتالي	Supply wattage (W)	- get site nite sail	1/1/2		
	Supply current (A):	m 4" "			
Will allo	Calculated power factor:	THE RITE WITE WALL	4 - 4		
st st	Table: measured temperatures corrected for ta = 25	5 °C:	Р		
the state of	- abnormal operating mode:	CE WILL MULL WHILL W	10 70		
£ 36th	- test 1: rated voltage:	- + + + + + + + + + + + + + + + + + + +	gli ^a zgli		
all the	- test 2: 1,06 times rated voltage or 1,05 times rated wattage:	1.3 times rated voltage	y 54		
me m	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage		11/2		
VII MUE	- test 4: 1,1 times rated voltage or 1,05 times rated wattage		"n" -1		
THE WALTER	Through wiring or looping-in wiring loaded by a current of A during the test	antife white white w	المستريدة		

Temperature measurements, (°C)

Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	Jimit 4
DC inlet	25.0	NET ET LIN	48.8	4 _{11.} _{21.}	Ref.	- J	10 ¹ 1
Touch switch button	25.0	ar Ar de	50.6	utick nich	55	S. Albin.	the Me
Ambient of touch switch	25.0	ver "tilver	44.3	d d	55	et miner	TEN SHILLE
Internal PCB for of wireless charging & touch switch	25.0	er serie	35.3	Who was	Ref.	nestel.	y and the
Internal wire of switch	25.0	'm' - 2	28.1	40° 0	80	WILLER WALLER	uniie un
Switch button for wireless charger	25.0	Unite - Une	26.3	1	55	- A	
Ambient of switch for wireless charger	25.0	ifekinife	25.6		55	# 16t .	EF STEE
Lead wire of LED	25.0	* *	58.2		80	345 A11.	20,

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Reference No.: WTF21F10112701L Page 37 of 62

IEC 60598-2-4									
Clause	Requ	uirement + Test			Result - Remark	Set Si	Verdict		
4, ,			L J	10th 15th		71/2 AV	n. n.	10.00	
Lamp cover	•	25.0	11/2	50.4		Ref.	18 JE	- 20	
Plastic enclos of lamp part	ure	25.0	eret e	47.8	White.	Ref.	L. 711	20, - 0	
Plastic cover of bottom	of	25.0	21/2 - 21	29.2	JEK	Ref.	SEE WILLIAM	Mile Aug	
Plastic enclos of bottom	ure	25.0	NITE WALK	29.9		Ref.	- 50t	ISEK NITE	
Adjustment no metal part (an 5cm around)		25.0	EK MINITER	46.3	2 <u>17</u> 1	75	an ar	or Ter	
LED board		25.0	- +	65.9	11/2	Ref.	in in		
Mounting surf	ace	25.0	140 - 11	37.0	<i>#</i>	Ref.	51 Pr - 55 Pr	11 57 E	
Illuminated surface (0.1m) <	25.0	mitelle and	30.1	en	90	at at	- Jan	





Reference No.: WTF21F10112701L Page 38 of 62

1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEC 60598-2-4	the Mary Mary	100	-4-
Clause	Requirement + Test	The state of	Result - Remark	V	erdict

ANNEX 3	Screw terminals (part of the luminaire)		N
(14)	SCREW TERMINALS	A A A A	o N
(14.2)	Type of terminal	" of the the	3, 7,
Cliff California	Rated current (A)	the feet of the officer	(17 ¹²⁾
(14.3.2.1)	One or more conductors	The Au an a	N
(14.3.2.2)	Special preparation	THE THE NUMBER OF	N
(14.3.2.3)	Terminal size	74 A. A. A.	N
William Miles	Cross-sectional area (mm²)	The state state state	J 10 - 3
(14.3.3)	Conductor space (mm)	10 20 4	, N
(14.4)	Mechanical tests	LIET SLIFE WILLES SHIP	ar Nr
(14.4.1)	Minimum distance	* * *	_ N <
(14.4.2)	Cannot slip out	the matter and the whole of	N
(14.4.3)	Special preparation	1 1 1 1 1	N N
(14.4.4)	Nominal diameter of thread (metric ISO thread)	M	N
de de	External wiring		N
10. 94	No soft metal	The same	N
(14.4.5)	Corrosion		N
(14.4.6)	Nominal diameter of thread (mm)	and the same	N
S. C. C.	Torque (Nm)	at the state of	N
(14.4.7)	Between metal surfaces	They are the to	N
INITE SINI	Lug terminal	let light light mil	N
, ,	Mantle terminal	The the the sail	N
Life White	Pull test; pull (N)	TEN TEN STEE STEE	N
(14.4.8)	Without undue damage	1 21 21 20 20 20 1	N



Reference No.: WTF21F10112701L Page 39 of 62

, a	a de de d	EN 60598-2-4	VII. MILL MAN MAN	and the
Clause	Requirement + Test	The state of	Result - Remark	Verdict

ANNEX 4	Screwless terminals (part of the luminaire)	CONTRACTOR OF N
(15)	SCREWLESS TERMINALS	N
(15.2)	Type of terminal:	WITE WAS TO
4	Rated current (A):	, J. J. L. —
(15.3.1)	Material	and an N
(15.3.2)	Clamping	N.
(15.3.3)	Stop	N S
(15.3.4)	Unprepared conductors	at at aN
(15.3.5)	Pressure on insulating material	N.
(15.3.6)	Clear connection method	A N
(15.3.7)	Clamping independently	The N
(15.3.8)	Fixed in position	A SON
(15.3.10)	Conductor size	N
JOHN ST	Type of conductor	A ST SN
(15.5)	Terminals and connections for internal wiring	N
(15.5.1)	Mechanical tests	N.
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	N
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	N.
	Insertion force not exceeding 50 N	N
(15.5.1.2)	Permanent connections: pull-off test (20 N)	ST N
(15.5.2)	Electrical tests	N
no me	Voltage drop (mV) after 1 h (4 samples):	N Supra
st st	Voltage drop of two inseparable joints	L J+ N
in and	Number of cycles:	They are The
y MITER	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)	MITCH WATER WY
NUTER ON	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)	Set Set William
Set St	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples):	N N
et let	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):	N
(15.6)	Terminals and connections for external wiring	an N
(15.6.1)	Conductors	N N
2/12, 3/1	Terminal size and rating	L. Alexandre
15.6.2	Mechanical tests	J- J- AN

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Reference No.: WTF21F10112701L Page 40 of 62

	EN 60598-	2-4	-3"
Clause	Requirement + Test	Result - Remark	Verdict
(15.6.2.1)	Pull test spring-type terminals or welded cor (4 samples); pull (N)		N S
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)		TO THE N
(15.6.3)	Electrical tests	The The Shirt	N
L. Mes.	Tests according 15.6.3.1 + 15.6.3.2 in IEC 6	60598-1	N

(15.6.3.1) (15.6.3.2)	TABL	E: Contac	t resistaı	nce test	/ Heating	g tests					N
Lifet W	Voltag	je drop (m\	/) after 1	h	-3"		d-	Zet .	Jet .	de .	J.
terminal	1 32	1,+	2	3	4	5	6	7	8	9	10
voltage drop (mV)		1/2 1	100	201	<i>*</i>	d .	of t	et is		·	
	24	Voltage dro	op of two	insepara	able joints	3 41	. "AL.	20			
and a	3500	Voltage dro	op after 1	0th alt. 2	25th cycle	+ 4	+ 56	- 50°	- 100	and o	est of
	1	Max. allow	ed voltag	e drop (r	nV)		m.	183	4)		-
terminal	21	1	2	3	4	5	6	7	8	9	10
voltage dro	p (mV)	* L 3		100	3/2	115	3/1	12		.+	- C*-
a ma	1 10	Voltage dro	op after 5	0th alt. 1	00th cycl	е	-GF	205	The sale	112	
it sit		Max. allow	ed voltag	e drop (r	mV)	:	- 4	1	94 X	<i>*</i>	<i>*</i> –
terminal 1		2	3	4	5	6	7	8	9	10	
voltage dro	p (mV)	Care and	in and	100	-9)	,			164	100	.3
311 3		Continued	ageing: v	oltage d	rop after	10th alt.	25th cyc	le	31/2	-2/2	21
John S	560	Max. allow	ed voltag	e drop (r	nV)	:			Let.	S. Carlo	100
terminal		1,4	2	3	4	5	6	7	8	9	10
voltage dro	p (mV)	" Allen	31 ¹ V	<i>i</i> ₁ ,		.4.	,d	est .	et i		۴,
		Continued	ageing: v	oltage d	rop after	50th alt.	100th cy	cle	300		
The state of	120	Max. allow	ed voltag	e drop (r	nV)	:	y	£ 36		" Nete	- 3
terminal		1	2	3	4	5	6	7	8	9	10
voltage dro	p (mV)	is the	27,			A COL	Sept	77.6	Willey.	uncio".	100
Test .		ni a	- 10	100		A1524	4/17	8) = 2	V		



Reference No.: WTF21F10112701L Page 41 of 62

the state of	and the state of	EN 60598-2-4	THE PARTY WAS DAVED	The thin
Clause	Requirement + Test	All A	Result - Remark	Verdict

ANNEX 5	National Differences for (country name) or Group Differences	° P⊸
A 3	the state of the south south south and the south of the south	d s
S. 74	CENELEC COMMON MODIFICATIONS (EN)	Р

ATTACHMENT TO TEST REPORT IEC 60598-2-4 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Luminaires

Part 2: Particular Requirements:

SECTION 4: PORTABLE GENERAL PURPOSE LUMINAIRES

Differences according to	EN 60598-2-4:2018 used in conjunction with EN IEC 60598-1:2021

Annex Form No......: --Annex Form Originator....: -Master Annex Form...: --

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11/2 11/2	CENELEC COMMON MODIFICATIONS (EN)	Р
16-		22.7° -

4.5 (3)	MARKING	N
4.5 (3.3.101)	For luminaires not supplied with terminal block: Adequate warning on the package	N

4.6 (4)	CONSTRUCTION	Р
4.6 (4.11.6)	Electro-mechanical contact systems	Р

4.10 (5)	EXTERNAL AND INTERNAL WIRING	P.
4.10 (5.2.1)	Connecting leads	N
STATE W	- without a means for connection to the supply	N N
A+ .	- terminal block specified	N.
White Mr.	- relevant information provided	N
NITER ANITE	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1	× SN
4.10 (5.2.2)	Cables equal to EN 50525	N
COLUMN TO THE PARTY OF THE PART	Replace table 5.1 – Supply cord	N

Reference No.: WTF21F10112701L

Page 42 of 62

	a to the state	EN 60598-2-4	
Clause	Requirement + Test	Result - Remark	Verdict

4.12 (12)	ENDURANCE TESTS AND THERMAL TESTS		N
	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring	and want want with w	N

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N
(3.3)	DK: power supply cords of class I luminaires with label	And the top	N
(4.5.1)	DK: socket-outlets	The Author Author Author	N
(5.2.1)	CY, DK, FI, GB: type of plug	1 11 11 5th 5th	N

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N .
(4 & 5)	FR: Shuttered socket-outlets 10/16A	N
STEEL ST	FR: Safety requirements for high buildings (Arrêté du 30 décembre 2011 portant règlement de sécurité pour la construction des immeubles de grande hauteur et leur protection contre les risques d'incendie et de panique; Section VIII; Article GH 48, Eclairage) Glow-wire test for outer parts of luminaires:	N
lit the	- 850°C for luminaires in stairways and horizontal travel paths	N
741	- 650°C for indoor luminaires	N
(13.3)	GB: Requirements according to United Kingdom Building Regulation	Ñ



Reference No.: WTF21F10112701L Page 43 of 62

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EN 61347-2-11	realist the the	-3"
Clause	Requirement + Test	The state of	Result - Remark	Verdict

ANNEX 6	The requirements for dimmer switch according to	to standard EN 61347-2-11	P
4 (4)	(4) GENERAL REQUIREMENTS		P
- (4)	Insulation materials for double or reinforced insulation according requirements in Annex N of IEC 61347-1	(see Annex N)	I METER
- (4)	Compliance of independent controlgear enclosure with IEC 60 598-1	THE MATER MATER MATE	N
- (4)	Built-in magnetic ballast with double or reinforced insulation comply with Annex I of IEC 61347-1	the the tree state	N
- (4)	Built-in electronic controlgear with double or reinforced insulation comply with Annex O of IEC 61347-1	(see Annex O)	N WALT
- (4)	SELV controlgear comply with Annex L of IEC 61347-1	(see Annex L)	N Ch

6 (6)	CLASSIFICATION	THE STEE STEEL STATE STATE	JP 9
J 3	Independent controlgear:	Yes ☐ No ⊠	.d-
in the	Built-in controlgear:	Yes ☐ No ⊠	- de
it it	Integral controlgear:	Yes ⊠ No □	£ - £

7	MARKING	A A NOT
The same	Requirements not applicable to the evaluated product	ne me

8 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT	T WITH LIVE PARTS	N	
- (10.1)	Controlgear protected against accidental contact with live parts	Class III	en Con	
- (A2)	Voltage measured with 50 kΩ	(see Annex A)	- N	
- (A3)	Voltage > 35 V peak or > 60 V d.c. or protective impendance device	(see Annex A)	N	
- (10.1)	Lacquer or enamel not used for protection or insulation	INCIDE WALTER WALTER WILL	N	
Willey Mer	Adequate mechanical strength on parts providing protection	TE WAITE WALTER WALTER	S S N	
- (10.2)	Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V:	The Charlest Stratest Strategy	N.C	
- (10.3)	Controlgear providing SELV		.e N⊗	

Reference No.: WTF21F10112701L Page 44 of 62

11/2		EN 61347-2-11	its write min	100, 100
Clause	Requirement + Test	The state of	Result - Remark	Verdict

ane an	Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear	at the feet that the	N
et set	No connection between output circuit and the body or protective earthing curcuit	while the till the	N
When the	No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts	White the tex stex or	N
All A	SELV outputs separated by at least basic insulation	A A A A A	N
16 14	ELV conductive parts insulated as live parts	it with the the th	N
56t . 576	Tests according Annex L of IEC 61347-1	at the set set set	N
- (10.4)	Accessible conductive parts in SELV circuits	The Mr. The M.	N
White	Output voltage under load \leq 25 V r.m.s. or \leq 60 V d.c.	MULTER MATER MATER MATER W	N
MUTER AN	If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c	ALTER WALTER WALTER WALTER	N
	One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V		N
Whitek	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	METER MATTER MATTER MATTER	N
30	Y1 or Y2 capacitors comply with IEC 60384-14	it is not to the in	N
in in	Resistors comply with test (a) in 14.1 of IEC 60065	are the the	N

9 (8)	TERMINALS		N .
- (8)	Screw terminals according section 14 of IEC 60598-1:		N
Sept.	Separately approved; component list	(see Annex 1)	N N
311	Part of the controlgear	(see Annex 2)	N
TO IN	Screwless terminals according section 15 of I	EC 60598-1:	J. N
	Separately approved; component list	(see Annex 1)	N
TER OLI	Part of the controlgear	(see Annex 3)	N

	10 (9)	PROVISION FOR PROTECTIVE EARTHING	N
L	- (9.1)	Provisions for protective earthing	N



Reference No.: WTF21F10112701L Page 45 of 62

EN 61347-2-11					
Clause	Requirement + Test	4	Result - Remark	Verdi	ct

<i>3</i> +	the	200
hos the	Terminal complying with clause 9	N
TEX WALL	Locked against loosening and not possible to loosen by hand	N
e soot	Not possible to loosen clamping means unintentionally on screwless terminals	N
-2,	Earthing via means of fixing	N
anester al	Earthing terminal only used for the earthing of the control gear	N
LIEK WA	All parts of material minimizing the danger of electrolytic corrosion	N
d (8)	Made of brass or equivalent material	o N
- SIL	Contact surface bare metal	N
(9.2)	Provision for functional earthing	N
40.	Comply with clause 8 and 9.1	N
(9.3)	Earth contact via the track on the printed board	N
erek _{sunur}	Test with a current of 25 A between earthing terminal and each of the accessible metal parts; measured resistance (Ω) at \geq 10 A according 7.2.3 of IEC 60598-1: < 0,5 Ω	N
(9.4)	Earthing of built-in lamp controlgear	N
LTEN.	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1	N
76# -	Earthing terminal only for earthing the built-in controlgear	N
(9.5)	Earthing via independent controlgear	N
(9.5.1)	Earth connection to other equipment	N
F 764	Looping or through connection, conductor min. 1,5 mm² and of copper or equivalent	N
2/12	Protective earthing wires in line with 5.3.1.1 and clause 7	N
(9.5.2)	Earthing of the lamp compartments powered via the independent lamp controlgear	N
TER MUTER	Test with a current of 25 A between input and output earth terminals; measured resistance (Ω) between earthing terminal and each of the accessible metal parts at \geq 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 Ω	N SUP
- 50	Output earthing terminal marked as in 7.1 t) of IEC 61347-1	N



Reference No.: WTF21F10112701L Page 46 of 62

EN 61347-2-11				
Clause	Requirement + Test	40	Result - Remark	Verdict

11 (11)	MOISTURE RESISTANCE AND INSULATION		JE P
NUTEY WALL	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):		
st st	For basic insulation \geq 2 M Ω	100 ΜΩ	P P
. Also	For double or reinforced insulation $\geq 4~\text{M}\Omega$	- alter with white whi	N
Whitek w	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	BLIEF MILIEF MALIEF MALIE	N.

12 (12)	ELECTRIC STRENGTH	P
- (12)	Immediately after clause 11 electric strength test for 1 min	IN STATE
y 4	Basic insulation for SELV, test voltage 500 V	zet Pzet
The	Working voltage ≤ 50 V, test voltage 500 V	N
- Aller	Working voltage > 50 V ≤ 1000 V, test voltage (V):	N
The s	Basic insulation, 2U + 1000 V	N
all the last	Supplementary insulation, 2U + 1000 V	√ N
1	Double or reinforced insulation, 4U + 2000 V	N
Tek inte	No flashover or breakdown	N
MINITER .	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	N

14 (14)	FAULT CONDITIONS	ALTER ANTE ANTE WALL	P
- (14)	When operated under fault conditions the controlgear:		P
e m	- does not emit flames or molten material		Au bu
et det	- does not produce flammable gases	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ST PSE
W. Ch	- protection against accidental contact not impaired	THE WAY THE W	Р
all a	Thermally protected controlgear does not exceed the marked temperature value	Will Murr Murr	N
THE WASTER	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	uri est Pari
- (14.1)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	(see appended table)	Pet



Reference No.: WTF21F10112701L Page 47 of 62

EN 61347-2-11					
Clause	Requirement + Test	run .	Result - Remark	Verdict	

	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3	A THE MILITER MILITER WHILE	N N
- (14.2)	Short-circuit or interruption of semiconductor devices	(see appended table)	Р
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N
- (14.4)	Short-circuit across electrolytic capacitors (see appended table)		Р
- (14.5)	After the tests has been carried out on three samples:		Р
16. 210	The insulation resistance \geq 1 M Ω	100 ΜΩ	4 P 3
at a	No flammable gases		P
in the	No accessible parts have become live	anti uni uni	P
y whiteh	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	THE STEEL STATES STATES	P. C.
- (14.6)	Relevant fault condition tests with high-power supply	Tet Itet Wet Mi	EX MITTER

15 (15)	CONSTRUCTION	Pol
- (15.1)	Wood, cotton, silk, paper and similar fibrous material	P
JAN L	Wood, cotton, silk, paper and similar fibrous material not used as insulation	un P
- (15.2)	Printed circuits	NATE OF P
Jet a	Printed circuits used as internal connections complies with clause 14	TEP STEP STEE
- (15.3)	Plugs and socket-outlets used in SELV or ELV circuits	N
iter white	No dangerous compatibility between output socket-outlet and a plug for socket-outlets for input circuit in relation to installation rules, voltages and frequencies	No.
SEP.	Plugs and socket-outlets for SELV comply with IEC 60906-3 and IEC 60884-2-4	N. S. S.
nizest whi	Plugs and socket-outlets for SELV \leq 3 A, \leq 25 V r.m.s. or \leq 60 V d.c. and \leq 72 W comply with IEC 60906-3 and IEC 60884-2-4 or:	N SEE STATE OF THE SEE
TEK UNITE	- plugs not able to enter socket-outlets of other standardised system	L STEEL STEEL ST.
+ Tet	- socket-outlets not admit plugs of other standardised system	N
30, -	- socket-outlets without protective earth	N



Reference No.: WTF21F10112701L Page 48 of 62

EN 61347-2-11					
Clause	Requirement + Test	4	Result - Remark	Verdi	ct

16 (16)	CREEPAGE DISTANCES AND CLEARANCES		Р
- (16)	Creepage distances and clearances according to Table 3 and 4, as appropriate	(see appended table)	Р
ER WILTER	Controlgears providing SELV comply with L.1 in Annex L	- WILLER WHITE WHITE SHILL	N
· Jet	Insulating lining of metallic enclosures	the set of the	N
The The	Basic insulation on printed boards tested according to clause 14	and the the	Р
TEX VILER	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in either Table 3 or 4	A LA LEA THE A	Р
it let	Creepage distances not less than minimum clearance	A A A A	Р

17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	
The To	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	
(4.11)	Electrical connections	
(4.11.1)	Contact pressure	J P
(4.11.2)	Screws:	
C. E.	- self-tapping screws	l N
4, 4	- thread-cutting screws	N
(4.11.3)	Screw locking:	
	- spring washer	N
Life Mile	- rivets	N ₁
(4.11.4)	Material of current-carrying parts	Р
(4.11.5)	No contact to wood or mounting surface	Р
(4.11.6)	Electro-mechanical contact systems	N+
(4.12)	Mechanical connections and glands	
(4.12.1)	Screws not made of soft metal	N
	Screws of insulating material	No.
	Torque test: torque (Nm); part:	At N
	Torque test: torque (Nm); part:	N
	Torque test: torque (Nm); part:	N
(4.12.2)	Screws with diameter < 3 mm screwed into metal	N

Reference No.: WTF21F10112701L Page 49 of 62

10	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EN 61347-2-11	rie Aure and And	The thin
Clause	Requirement + Test	run .	Result - Remark	Verdict

(4.12.4)	Locked connections:	
Alt N	- fixed arms; torque (Nm):	A A ON A
in the	- lampholder; torque (Nm):	N III
Cet set	- push-button switches; torque 0,8 Nm:	* NO
(4.12.5)	Screwed glands; force (Nm):	an an N

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING Ball-pressure test:		Р
- (18.1)			Р
il in	- part tested; temperature (°C):	PCB, 125°C	Р
- (18.2)	Test of printed boards:	of the the title of	Р
	- part tested:	PCB	Р
- (18.3)	Glow-wire test (650°C):	- ITEL AUTOR MITTER SINIT	N
<i>A</i> -	- part tested	74, 74, 4	N-
- (18.4)	Needle flame test (10 s):		Р
18th 1	- part tested	PCB	P
in the	- part tested	The Shirt was a	N
- (18.5)	Tracking test:		N
74	- part tested:	- Will Auto Mur Au	N
- Care	- part tested:	- 2 2 2 2 2	N

19 (19)	19) RESISTANCE TO CORROSION - test according 4.18.1 of IEC 60598-1		1 1 1 1 5°	N
20, 20,			the the the	N
LIE RE	- adequate varnish on the outer surface		et set set set	N. C

20 (-)	ANNEXES		Р
	Comply with appropriate annexes of IEC 61347-1	(see Annexes)	Р

14	TABLE: tests of fault conditions	P
Part	Simulated fault	Hazard
D1	Test voltage: 9Vdc, Short circuit: Fuse open immediately	No No
D2	Test voltage: 9Vdc, Short circuit: Fuse open immediately	No -
Q1	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No

Waltek Testing Group (Foshan) Co., Ltd.

http://www.waltek.com.cn

Reference No.: WTF21F10112701L Page 50 of 62

EN 61347-2-11					
Clause	Requirement + Test	4	Result - Remark	Verdi	ct

U1	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
J2	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
J3	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
J4	Test voltage: 9Vdc, Short circuit: Fuse open immediately	No
J5	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
C and	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
03	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No.
Q1	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
Q2	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No.
Q3	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	-No
Q4	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
J1	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
J2	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
C1	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No
C2	Test voltage: 9Vdc, Short circuit: unit shut down, recoverable	No

16 (16)	TABLE:	TABLE: clearance and creepage distance measurements (mm)					
Intite White	24/20 -2	Applic	able part of IE	C 61347-1 T	able 7 – 11*	WITE WIFE	CALIFE S
Distances	Insulation	Measured	Requ	ired	Measured	Requ	uired
The MULL	type ** clearance	clearance	clearance	*Table	creepage	creepage	*Table
Working vol	tage (V)				ALTER MAT	L UNITER OUT	71 <u>717</u>
	- 1				70. 7	A+ 4	y

 $\label{thm:condition} \mbox{Waltek Testing Group (Foshan) Co., Ltd.}$

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Reference No.: WTF21F10112701L Page 51 of 62

EN 61347-2-11				
Clause Requirement + Test		Result - Remark	Verdict	
- A-	the first that white mark and which	The Mr. M. M.	-	
PTI		< 600 □ ≥ 600 □	110 - 11	
Peak value	e of the working voltage $\hat{\sf U}_{\sf out}$ if applicable (kV)		.√ ⁶ - 3	
Pulse volta	age if applicable (kV)	The way and and an	- 7h	
Suppleme	ntary information: Max. 9VDC input	a st st set of	or the	

^{**} Insulation type: B - Basic; S - Supplementary; R - Reinforced

Α	ANNEX A, TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK		
A.1	Comply with A.2 or A.3	THE STILL STILL SALTE.	N
A.2	Voltage ≤ 35 V peak or ≤ 60 V d.c:	3	, N
A.3	If voltage > 35 V r.m.s. or > 60 V d.c. or protective impendance device;	There were miner were	N
	touch current does not exceed 0,7 mA (peak) or 2 mA d.c.	WALLER WHILE MALLER WALL	e until
	Comply with Annex G of IEC 60598-1	2 2 10 10	N

C. St. Will	ANNEX C – PARTICULAR REQUIREMENTS FOR ELECTRONIC LAMP CONTROLGEAR WITH MEANS OF PROTECTION AGAINST OVERHEATING	
C3	GENERAL REQUIREMENTS	N.
C3.1	Thermal protection means integral with the controlgear, protected against mechanical damage	
, et	Renewable only by means of a tool	, , N
ane an Set ass	If function depending on polarity, for cord- connected equipment protection means in both leads	N A
	Thermal links comply with IEC 60691	N
et tes	Electrical controls comply with IEC 60730-2-3	N.
C3.2	No risk of fire by breaking (clause C7)	N N
C5	CLASSIFICATION	
70. 2	a) automatic resetting type	N
50° S	b) manual resetting type	of the time
120,	c) non-renewable, non-resetting type	N
The Ship	d) renewable, non-resetting type	· A V
+ 14	e) other type of thermal protection; description :	THE STATE OF
C6	MARKING	The SHALL SHALL



Reference No.: WTF21F10112701L Page 52 of 62

21/		EN 61347-2-11	VILL MEET MEET MEET	200 - 200
Clause	Requirement + Test	All and the second	Result - Remark	Verdict

C6.1	Symbol for temperature declared thermally protected ballasts	N N
C6.2	Declaration of the type of protection provided	N
C7	LIMITATION OF HEATING	N
C7.1	Preselection test	N
. Jeh	Test sample placed for at least 12 h in an oven having temperature (t _c - 5) K	N
24. 24.	No operation of the protection device	N
C7.2	Functioning of protection means	N
TEX SULTER	Normal operation of the sample in a test enclosure according to Annex D at an ambient temperature such that (t _c +0; -5) °C is obtained	N
	No operation of the protection device	N
Marze M	Introducing of the most onerous test condition determined during test of clause 14	N
MUNITER MA	Output of windings connected to the mains supply short-circuited, and other part of the controlgear operated under normal conditions	N.
NETE SHOEL OF SHEET	Increasing of the current through the windings continuously until operation of the protection means	N
AL.	Continuous measuring of the highest surface temperature	N
and a	Controlgear according to C5 a) or C5 e) operated until stable conditions are achieved	N
NUNETER WALK	Automatic-resetting thermal protectors working 3 times	N
jet jet	Controlgear according to C5 b) working 6 times	N
	Controlgear according to C5 c) and C5) d) working once	N
White 4	Highest temperature does not exceed the marked value	N
White Wh	Any overshoot of 10% over the marked value within 15 min	N
D EX WALL	ANNEX D – REQUIREMENTS FOR CARRY OUT THE HEATING TESTS OF THERMALLY PROTECTED LAMP CONTROLGEAR	N
and the	Tests in C7 performed in accordance with Annex D, if applicable	N

E	ANNEX E - USE OF CONSTANT S OTHER THAN 4500 IN tw TESTS	
The s	Comply with tests according Annex E, if applicable	N S



Reference No.: WTF21F10112701L Page 53 of 62

EN 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict

F	ANNEX F - DRAUGHT-PROOF ENCLOSURE	Р
N. The	Draught-proof enclosure in accordance with the description	Pur Pur
elle just	Dimensions of the enclosure	P
	Other design; description	N

Н	ANNEX H - TESTS	Р
MUTTE MU	All tests performed in accordance with the advise given in Annex H, if applicable	With Marie Marie And Pain

T SIL	ANNEX I - PARTICULAR ADDITIONAL REQUIREMENTS FOR INDEPENDENT SELV D.C. OR A.C. SUPPLIED ELECTRONIC CONTROLGEAR FOR LED MODULES	WALTER AND TEST
-24	Requirements not applicable to the evaluated product	

L	ANNEX L: PARTICULAR ADDITIONAL REQUIREMENTS FOR CONTROLGEARS PROVIDING SELV (IEC 61347-1)	
are a	Requirements not applicable to the evaluated product	211

M	ANNEX M: DIELECTRIC STRENGTH TEST VOLTAGES FOR CONTROLGEAR INTENDED FOR USE IN IMPULSE WITHSTAND CATEGORY III	
"AUTE	Comply with tests according Annex M, if applicable	TER MINITE MALE N

N	ANNEX N: REQUIREMENTS FOR INSULATION MATERIALS USED FOR DOUBLE OR REINFORCED INSULATION (IEC 61347-1)	
Wille Sterry	Requirements not applicable to the evaluated product	my the

0	ANNEX O: ADDITIONAL REQUIREMENTS FOR BUILT-IN ELECTRONIC CONTROLGEAR WITH DOUBLE OR REINFORCED INSULATION (IEC 61347-1)	N
	Requirements not applicable to the evaluated product	

Reference No.: WTF21F10112701L Page 54 of 62

34	IEC 62031	in my my my	
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 7	LED modules for general lighting – Safety specifi EN IEC 62031:2020	ications	P N
4	GENERAL REQUIREMENTS	s the sairty apriliate applications	P
4.4	Integral modules treated as part of luminaires defined in clause 0.5 of IEC 60598-1	of the state with the	F P E
4.5	Independent modules complies with requirements in IEC 60598-1	of the telescope	N
5	GENERAL TEST REQUIREMENTS	and an an	30 m
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	N
ale a	General conditions for tests in Annex A	(see Annex A)	N
et Jet	LITE MILE WILL WALL WALL WALL	e at at a	er wer
6	CLASSIFICATION	MUSTER SHEET SHEET SHEET	39,
in the same	Built-in module	Yes □ No ⊠	Willey of
-20.	Independent module:	Yes ☐ No ☒	_
RETER WAS	Integral module:	Yes ⊠ No □	مال من المال
THE METER	For Integral module; Note to 1.2.1 in IEC 60598-1 applies.		II 35 - 10-17 E
7	MARKING	and all all a	N
	Requirements not applicable to the evaluated produc	ct.	
and the said	CHARLE WILL AND THE TOP I	THE LITER MALES MALTER	aretra el
8	TERMINALS	and the same	N
	Screw terminals according section 14 of IEC 60598-1	Tek strek miter white w	N
et et	Separately approved; component list	(see Annex 2)	N d
2 hr	Part of the luminaire	(see Annex 3)	N
. All	Screwless terminals according section 15 of IEC 6059	98-1:	N
7/2 3/	Separately approved; component list	(see Annex 2)	N
Set N	Part of the luminaire	(see Annex 4)	N
11. 24.	Connectors according IEC 60838-2-2:	been the same	N
TER MITTE	Separately approved; component list	(see Annex 2)	N
9 (9)	PROVISION FOR PROTECTIVE EARTHING		N
3 (3)	TROVIDION FOR TROTLOTIVE LARTHING		-337

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Requirements not applicable to the evaluated product.



Reference No.: WTF21F10112701L Page 55 of 62

IEC 62031			
Clause	Requirement + Test	Result - Remark	Verdict

10 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS	N S
Tet S	Requirements not applicable to the evaluated product.	5 ⁶ - 3

11 (11)	MOISTURE RESISTANCE AND INSULATION	Р
- 5th	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):	Р
27,	For basic insulation $\geq 2 \text{ M}\Omega$	Р
-17 EM -11	For double or reinforced insulation \geq 4 M Ω :	N
	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	P

12 (12)	ELECTRIC STRENGTH	RUTE MALL MALL WALL	P
UNLIFE!	Immediately after clause 11 electric strength test for 1 min	THE STEEL WITH WITH	Р
	Basic insulation for SELV, test voltage 500 V		Р
10 14	Working voltage ≤ 50 V, test voltage 500 V	Company of the contract of the	N
et et	Working voltage > 50 V ≤ 1000 V, test voltage (V):		N
300	Basic insulation, 2U + 1000 V	With Mile Aug Aug	N
C. E.	Supplementary insulation, 2U + 1000 V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
40	Double or reinforced insulation, 4U + 2000 V	West along the till the	N
John 1	No flashover or breakdown	at all all after the	P
TEK MUT.	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	the state with the same of	N St.

13 (14)	FAULT CONDITIONS	F MILL MILL P
- (14)	When operated under fault conditions the controlgear:	P P
The !	- does not emit flames or molten material	P P
200	- does not produce flammable gases	A A P
n n	- protection against accidental contact not impaired	an P
CTEN WALT	Thermally protected controlgear does not exceed the marked temperature value	STATE SILVER N. C.
e waiter	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	TEX WALTE WALTER WALTER

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Reference No.: WTF21F10112701L Page 56 of 62

IEC 62031				
Clause	Requirement + Test	Result - Remark	Verdic	
- (14.1)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	THE MULTER WHITER WHITE	N	
er de	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3	ex united united united	N	
- (14.2)	Short-circuit or interruption of semiconductor devices	LED	Р	
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N	
- (14.4)	Short-circuit across electrolytic capacitors	(see appended table)	N	
- (14.5)	After the tests has been carried out on three samples:		Р	
ith whit	The insulation resistance \geq 1 M Ω :	100 ΜΩ	P	
الر ب	No flammable gases	20 20 2	Р	
Men	No accessible parts have become live	sife nip anife si	Р	
alfall file	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	Tet stet asset ins	EF P	
- (14.6)	Relevant fault condition tests with high-power supply	Le Pin A		
13.2	Module withstands overpower condition >15 min.	the state white	P.J.	
rek antre	Module with automatic protective device or power limiter, test performed 15 min. at limit.	- Tell State State	in i M	
S. E.	During the tests, tissue paper, spread below module, does not ignite	A St. Let	P	

15	CONSTRUCTION	TIER NITER NITE ON
s.	Wood, cotton, silk, paper and similar fibrous material not used as insulation	P

16	CREEPAGE DISTANCES AND CLEARANCES	P
20	Creepage and distances and clearances in compliance with IEC 60598-1	Р

17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	Р
anizer and	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	Р

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING	
Melie	Resistance to Heat, Fire and Tracking in compliance with IEC 61347-1 (clause numbers between parentheses refer to IEC 61347-1)	Р

Reference No.: WTF21F10112701L Page 57 of 62

	IEC 62031	and the an	-3
Clause	Requirement + Test	Result - Remark	Verdict
(40.4)	lot u	The Marian A	
(18.1)	Ball-pressure test:		P کی ا
20, 2	- part tested; temperature (°C):	LED board, 125°C	Р
(18.2)	Test of printed boards	let tilt till stell sitt	P
	- part tested:	LED board	Р
(18.3)	Glow-wire test (650°C):	et set set site	N.
	- part tested:	41, 41, 4	N L
(18.4)	Needle flame test (10 s):	· Lifet Willer Wile of	JIN P
24	- part tested:	LED board	ДР
(18.5)	Tracking test:	THE WALLE WHILE SHE	N
* .	- part tested:		N .

19 (19)	RESISTANCE TO CORROSION	at the total North
t all	Rust protection:	
	- test according 4.18.1 of IEC 60598-1	A A A N
'su _ 1	- adequate varnish on the outer surface	N N

20	INFORMATION FOR LUMINAIRE DESIGN	N
aree and e	Information in Annex D	10 10 10 10 10 10 10 10 10 10 10 10 10 1

21	HEAT MANAGEMENT	meter with with
21.1	General	N
White a	Exchangeability is safeguarded by cap or base	THE WALL STORY
21.2	Heat-conducting foil and paste	N A
er en	Heat-conducting foil delivered with the module if necessary	N N
21.4	Construction	N N
OLITER	Electrical connection and mechanical holding are separate	N N N N N N N N N N N N N N N N N N N

22	Photobiological safety	P. P.
22.1	UV radiation	⊥ N
22.2	Blue light hazard	Р
+ 0	RG at 200 mm according to IEC/TR 62778	- P
22.3	Infrared radiation	₩.



N

Reference No.: WTF21F10112701L Page 58 of 62

Clause	Requirement + Test	Result - Remark	Verdict
Α 🥕	ANNEX A - TESTS	The state of	e P
the th	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable	There are the a	Р

SELV-operated LED modules in compliance with Annex I of IEC 61347-2-13

WALTEK

Reference No.: WTF21F10112701L

Page 59 of 62

- 27		A 6	IEC/TR 62778	ry aller aller aller	
Clause	Requirement -	- Test	Mr. V	Result - Remark	Verdic
Annex 8	Retinal blue lig	ht hazard Of	Lamps And Lamp Sy	rstems IEC/TR 62778:2014	e P
24 X	TABLE: Spec	troradiometr	ic measurement	They are the sail	Р
et united	Measurement	t performed o	on:	□ LED package□ LED module□ Lamp☑ Luminaire	SANCE WAST
1111	Model number	er	·····:	MO6514	J. J.
24	Test voltage (V): Test current (mA): Test frequency (Hz):			5V	# 20 1-
energy energy				STEE WILL WILL AND	410 B
10 B				·	10th
er the	Ambient, t (°C	;)	:	25.3	4 L 74
ek walter	Measurement	t distance	:	☑ 20 cm ☐ cm	INTER WILTE
WUTER M	Source size			Non-small □ Small : mm	Tight White Edit.
Mitek whit	Field of view		☐ 100 mrad ☐ 11 mrad ☐ 1,7 mrad (for small sources)	garizat vi	
	Item	Symbol	Units	Result	Remark
Correlated temperature		ССТ	K &	I WALTER WALTER WHITE OF	S. Andrew
x/y colour coordinates		-12	71	1 1 1 1 1 3	O Later
Blue light h	azard radiance	L _B	W/(m ² •sr ¹)	8.652e+000	10
Blue light h	azard irradiance	E _B	W/m ²	1 of the title	mire and
Luminance	J J	SE SE	cd/m ²	1.541e+004	1 <u></u>
Illuminance	on an	E W	lx d	A SP SP ST	The Theory
Lamp class	ification group: R0	30	which they the	10, 10, 11, 11	- Jan 1994



Reference No.: WTF21F10112701L Page 60 of 62

		EN 62471	
Clause	Requirement + Test	Result - Remark	Verdict

Annex 9	Photobiological safety	The A

S. S. C.	Action	Lie Whi	2100	Emission Measurement					
Risk	spectru	Symbol	Units	Exe	mpt	Low	risk	Mod	risk
100	m	Car Car	William	Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	Es	W⋅m ⁻²	0.001	1.4e-08	0.003	12 - W		710
Near UV	est est	E _{uvA}	W·m ⁻²	0.33	5.6e-05	33	- ·	L - J	20 ¹
Blue light	Β(λ)	L _B	W·m ⁻² ·sr ⁻	100	4.3e+00	10000	CEL MUTA	4000000	n - 1
Bluelight, small source	Β(λ)	E _B	W·m⁻²	0.01*	nite l uni	1.0	- WATER	400	ie "uni
Retinal thermal	R(λ)	L _R	W·m ⁻² ·sr ⁻	28000/α	1.4e+02	28000/α	NV CER ON	71000/α	Albin.
Retinal thermal,	LTER WALT	WALTE	W⋅m ⁻² ⋅sr ⁻	545000 0.0017≤ α≤0.011	L STEK	MALTEK MI	LIEF PAR	SER WHITEK	ola Life
weak visual stimulus**	R(λ)	L _{IR}	1300 31 48	6000/α 0.011≤α ≤0.1	ST. E.		Synt E	Whitek W	15 TES 19
IR radiation, eye	an a	E _{IR}	W⋅m ⁻²	100	2.4e-03	570	Jul 22 7 7	3200	. July

Lamp classification group..... exempt⊠ risk 1 risk 2 risk 3

Reference No.: WTF21F10112701L Page 61 of 62

	EN A A SEN	l 62493	
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 10	Assessment Of Lighting Equipment Related To Electromagnetic Fields according to standard		Р		
4	LIMITS	and the ancie and and	Р		
4.1	General	1 1 1 1 1 1 1 1	Р		
Whitely of	Comply with Van der Hoofden test limit in 4.2.3 or inherently compliant in 4.2.2 and pass assessment procedure for intentional radiators in 4.3	A MUTER MUTER MUTER MUTER	P		
4.2	Unintentional radiating part of lighting equipm	ent of the state of	Р		
4.2.2	Lighting equipment deemed to comply with the Va	in der Hoofden test without testing	L P		
ite with	1) electronic controlgear	Yes No			
4 1	2) incandescent-lamp technology	Yes No			
The	3) LED-light-source technology	Yes ⊠ No □	21/2		
, dr	4) OLED-light-source technology	Yes No	-de		
an an	5) high-pressure discharge lamp LED-light-source technologies	Yes No	~s.t		
Vice Mary	6) low-pressure discharge lamp technologies with exposure distance ≥ 50 cm	Yes No			
The State of the S	7) independent auxiliary	Yes No			
	Not fulfil any of 1-7 above subject to 4.2.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		
4.2.3	Applications of limits	et the other wife with the	N		
united and	Not fulfil any of 1-7 in 4.2.2 but the compliance factor F is ≤ 1	THE STEP STEP STEP	N		
4.3	Intentional radiating part of lighting equipment				
LE WALL	Comply with one of methods in Clause 7 if intentional radiator	Wiley Maries Murie Murie Au	N		
6	MEASUREMENT PROCEDURE FOR THE VAN D	DER HOOFDEN TEST	N		
6.1	General	a star set set set	N		
A A	Measurements carried out under conditions according Clause 6.1 – 6.6	See Table 6	N		
Ver Mer	The state of the s	The state white and all	S (
7 st st	ASSESSMENT PROCEDURE INTENTIONAL RAI	DIATORS	↓ N		

7	ASSESSMENT PROCEDURE INTENTIONAL RADIATORS	⊬ N
7.2	Low-power exclusion method	N
7.2.1	Input P _{int,rad}	- GEN
70.	Exclusion level P _{max}	20,



Reference No.: WTF21F10112701L

Page 62 of 62

	EN 62493		
Clause	Requirement + Test	Result - Remark	Verdict
30	Input power $P_{\text{int,rad}}$ < exclusion level P_{max}	at at at	SOF SN
7.3	Application of the EMF product standard for bod	ly worn-equipment	N
per emi	If not Clause 7.2 is met and expose distance ≤ 0.05 m, comply with IEC 62209-2	ALTER WHITER WATER WAT	N
7.4	Application of the EMF product standard for bas	e stations	N N
· JEt	If not Clause 7.2 is met and if intentional radiator is base station, comply with IEC 62232	The Aut The	N ₁
7.5	Application of another EMF standard		
NV TEE ON	If not Clause 7.2 is met and if intentional radiator cannot be considered as in Clause 7.3 or 7.4, comply with IEC 62311	Martiel Martiel Martiel M	N

6	TABLE: Measurement results with Van der Hoofden test head					N
Location of EUT		Test model	Measuring Result(F) Limit(F) distance	Verdict		
Reference EN 62493:2		2 to 2 to 20	· July	TEX MILIER	≤1.0	N N

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

Reference No.: WTF21F10112701L

Page 1 of 6

Photo Documentation

Model: MO6514



Photo 1



Photo 2



Photo 3



Photo 4

Page 3 of 6





Photo 5



Photo 6

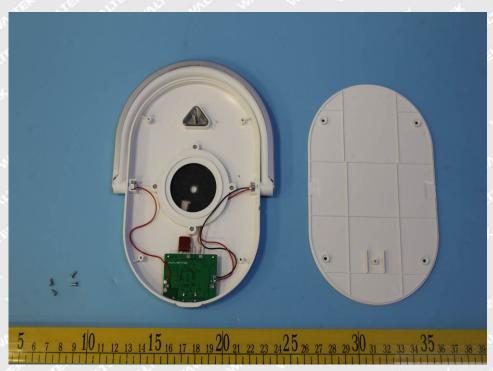


Photo 7

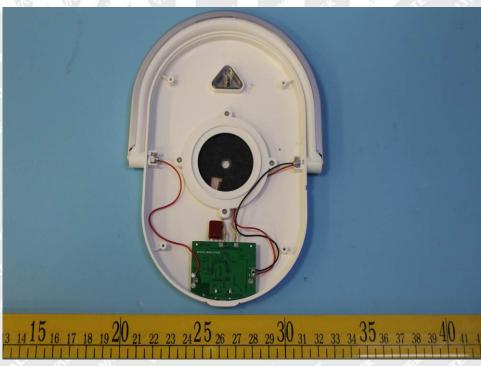


Photo 8

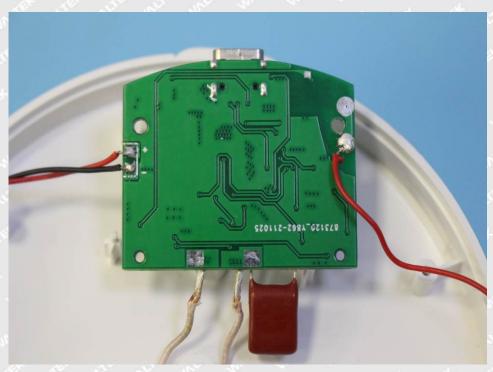


Photo 9

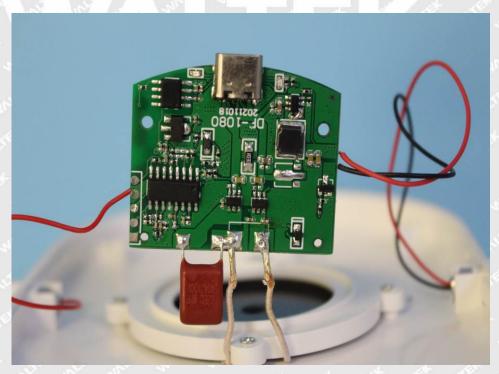


Photo 10

Photo Documentation



Photo 11



Photo 12

===== End of Photo ======