

TEST REPORT

Reference No	: 31	WTX23X12266986S
Applicant	:	GlobTek, Inc.
Address	Sur	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer 1	5ª	GlobTek, Inc.
Address 1	:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer 2	4	GlobTek (Suzhou) Co., Ltd
Address 2	:	Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou,JiangSu 215021, China
Product Name	÷	Power Supply
Model No	Service .	GT*96300-***** (See pages 4-5 for details)
Test specification	siet et	Safety of household and similar electrical appliances Part I: general requirements IEC 60335-1:2010+A1:2013+A2:2016
Date of Dessint completion	- 54	

Date of Receipt sample	:	2023-12-19
Date of Test	1:/	2023-12-19 to 2024-01-08
Date of Issue	:	2024-01-11
Test Report Form No	÷.	WTX_IEC60335_1_2010C
Test Result	de.	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 approver.

Prepared By: Waltek Testing Group (Shenzhen) Co., Ltd. Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China Tel:+86-755-33663308 Fax:+86-755-33663309 Email:sem@waltek.com.cn

Tested by:

Vic Xiong

Approved by:

Dur

Harvid Wei

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Test item description	Power Supply	y the second
Trademark:		ek, Inc.
Model and/or type reference:	GT*96300-**	*** (See pages 4-5 for details)
Rating(s) Input: 100-2		0V~, 50-60Hz or 50/60Hz, 1.0A
NUTER WAITE WAITE WAIT WATE -	Output: 5-30	√dc, Max. 4.5A, Max. 36W
at let let set whet w	(See pages	4-5 for details)
Remark: Whether parts of tests for the product ha Yes No If Yes, list the related test items and lab Test items: Lab information:		ontracted to other labs:
Summary of testing:	In the	the set of the set of
Tests performed (name of test and test - IEC 60335-1:2010+A1:2013+A2:201 The submitted samples were found to co requirements of above specification.	6	Testing location: Waltek Testing Group (Shenzhen) Co., Ltd. Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China
Summary of compliance with National EU= European, UK= United Kingdom, List of countries addressed: EN 60335-1:2012 + AC:2014 + A11:2014 EN 62233:2008 + AC:2008		:: EU, UK + A1:2019 + A14:2019 + A2:2019 + A15:2021

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Copy of marking plate: GlobTek, Inc. GlobTek, Inc. e.N107647115A globtek 電源供應器 Fuente de alimentación de /ITE/адаптер питания Medical/ICT/ITE/Household use Power Supply/电源供应器 BEF/PN/Número de pieza/Homep/将导州流TR9CA4500CCP-IMR6B MODEL/Modelo/mogens/型导/型號:GTM96300-2307.5-2.5-T3 INPUT/Entradd/sxog/输入輸入:100-240V~,50-60Hz,1.0A адаптер питания/地流供应器 Medical/ITE/Household use Power Supply IEF P/N/HOMED(科号): TR9CR1200T00CIMR6B Model/модель(型号): GTM96300-3636-6.0-T3 input only for India: 100-240v~, 50/60Hz,1.0A OUTPUT/Salida/выход/输出/輸出: 5.0V ---- 4.5A,22.5W Input/sxog(前入):100-240V-, 50-60 Hz, 1.0A Output/выход(输出): 30.0V === 1.2 A ,36.0W ())) Ell RECOONED 10276 EII EL Class 2 Power Intertek 4007497 Intertel Conforms to AAMI STD.ES60601-1.JEC 60601-1-11 Certified to CAN/CSA STD.C22.2 NO.60601-1 Intertek 22 66 2 F 4007407 Certified to CSA STD C22.2 NO.60950-1 ;NO.223;NO.62368-1 Conforms to UL Std.62368-1 Confirms to UL STD.60950-1: 1310:62368-1 Cert. to CSA Std.C22.2 No.62368-1 VEI (©) Conforms to AAMI STD. ES60601-1 \odot Certified to CAN/CSA STD.C22.2 NO.60601-1 PRECAUCIÓN: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE GlobTek, Inc IS 13252 (Part 1)/ Conforms to UL STD. 60950-1 Certified to CSA STD C22.2 NO.60950-1 IEC 60950-1 직류전원장치 AC/DC ADAPTER KTC HU10499-21050A R-R-GSZ-0014 Conforms to UL STD. 1310 ß 전기용품안전관리법에 의한 표시 최저소비효율기준 만족 제품 모델링:GT/196300-2307.5-2.5-T3 Certified to CSA STD. C22.2 NO.223 R-41017175 Mfr. Name: GLOBTEK (SUZHOU) CO., LTD A/S Center:10-6221-6100 1 PS GlobTek, Inc RoHS SAFETY + R37924 MARK RoHS 211375-12 N136 v SAA-161679-EA RoHS I PS 10276Intertek CAN ICES-3 (B)/NMB-3(B) CAN ICES-3 (B)/NMB-3(B) EFFICIENCY LEVEL (VI EFFICIENCY LEVEL (VI) SIN: 000158101/07 000158101/07 S/N: MADE IN CHINA/Китай Производство MADE IN CHINA/HECHO EN CHINA/ 中国制造 제조국가:중국 Китай Производство/中国制造中國製造 Note: height of graphical symbol at least 5mm, height of WEEE symbol at least 7mm.

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



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Test item particulars:	
Classification of installation and use:	Portable appliance and indoor used only
Supply Connection:	Appliance inlet
Class of equipment:	Class I or Class II
Possible test case verdicts:	white white white white and the
- test case does not apply to the test object:	N/A (Not Applicable)
- test object does meet the requirement: :	P (Pass)
- test object does not meet the requirement:	F (Fail)
Name and address of factory (ies)	1. GlobTek, Inc.
	186 Veterans Dr. Northvale, NJ 07647 USA
	2. GlobTek (Suzhou) Co., Ltd
	Building 4, No. 76, Jin Ling East Rd., Suzhou
	Industrial Park, Suzhou, JiangSu 215021, China

General remarks:

The test result presented in this report relate only to the object(s) tested.

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"(see Enclosure #)" refers to additional information appended to the report.

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

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

General product information:

- 1. Product covered by this report is Household use power supply module.
- 2. Desktop power supplies are provided with suitable external enclosure. The top and bottom parts of the enclosure are ultrasonic welded.
- 3. The unit is approved for TN mains star connections. The unit provides internally two fuses.
- 4. The power supplies are rated class I or class II. Open frame and encapsulated class I power supplies shall be properly bonded to the main protective bonding termination in the end product.
- 5. All the types are designed for continuous operation.
- 6. The model series GT*96300-**** have same enclosure with smooth surface or groove surface and PCB Layout size, The transformer with EE22 core used in GT*96300-**** have the same primary windings but different with secondary windings and constructions.
- 7. The products are not intended to be used in maximum ambient temperature exceed of 40 °C



Model similarity:

Explanation of model designation GT*96300-*****

The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.

The 2nd "*" denotes the rated output wattage designation, which can be "01" to "36", with interval of 1.

The 3rd "*" denotes the standard rated output voltage designation, which can be "07.5", "10.5", "14.5", "19.5", "24", "36";

The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-11.9" with interval of 0.01, or blank to indicate no voltage different.

The 3rd "*" and 4th "*" together denote the output voltage, with a range of 5 - 30 volts. The 5th "*"

=-T2 means desktop class II with C8 AC inlet

=-T3 means desktop class I or class II with functional earth with C14 AC inlet

=-T3A means desktop class I or class II with functional earth with C6 AC inlet

=-T2A means desktop class II with C18 AC inlet

=-R2 means hybrid desktop housing class II with C8 AC inlet

=-R3A means hybrid desktop housing class I or class II with functional earth with C6 AC inlet The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

Model list:

GT*96300-***- T2/T2A/T3/T3A /R2/R3A* Desktop models

Model	Output Voltage	Max. output current	Max. output power
GT*96300-*07.5*-T2/T2A/T3/T3A/R2/R3A*	5-7.5V	4.5A	22.5W
GT*96300-*10.5*-T2/T2A/T3/T3A/R2/R3A*	7.6-9V	3.94A	30W
GT*96300-*10.5*-T2/T2A/T3/T3A/R2/R3A*	9.1-10.5V	3.95A	36W
GT*96300-*14.5*-T2/T2A/T3/T3A/R2/R3A*	10.6-14.5V	3.39A	36W
GT*96300-*19.5*-T2/T2A/T3/T3A/R2/R3A*	14.6-19.5V	2.46A	36W
GT*96300-*24*-T2/T2A/T3/T3A/R2/R3A*	19.6-24V	1.83A	36W
GT*96300-*36*-T2/T2A/T3/T3A/R2/R3A*	24.1-30V	1.49A	36W

Models GTM96300-3636-6.0-T3, GTM96300-3619.5-1.5-T3, GTM96300-2307.5-2.5-T3 and GTM96300-3614.5-2.5-T2 are tested as typical models, model differences were also considered in this report.

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Clause	Requirement – Test	Result – Remark	Verdic
5	GENERAL CONDITIONS FOR THE TESTS	WALL WALL WAITE	Р
NN-LTEK N	Tests performed according to Clause 5, e.g. nature of supply, sequence of testing, etc.	wifet anitet antifet al	UTER WALP
6, 🖉	CLASSIFICATION	s s st st s	dr _d'₽_
6.1	Protection against electric shock: Class 0, 0I, I, II, III:	Class I or Class II	Р
white	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	white white white	N/A
6.2	Protection against harmful ingress of water	IPX0	N/A
7.5 ^{cr} N	MARKING AND INSTRUCTIONS	let bet bet a	SET NUP
7.1	Rated voltage or voltage range (V)	See marking label	Р
I' WILL	Symbol for nature of supply, or	See marking label	P.
6 18	Rated frequency (Hz)	See marking label	P
mar	Rated power input (W), or	and a super super superior	.N/A
dit.	Rated current (A):	See marking label	e P
uni v	Manufacturer's or responsible vendor's name, trademark or identification mark	See page 1	Р
in m	Model or type reference	See pages 4-5	P V
it .1	Symbol IEC 60417-5172, for class II appliances	See marking label	- 🖉 P
m	IP number, other than IPX0:	IPX0	N/A
WALTER	Symbol IEC 60417-5180, for class III appliances, unless	white minet anites	N/A
let.	the appliance is operated by batteries only, or	the second second	N/A
unt w	for appliances powered by rechargeable batteries recharged in the appliance	ALTER WALTE WALT WA	N/A
in your	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	Ster watter watter water	N PM
whitek	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage	WALTER WALTER WALTER	N/A
7.2	Warning for stationary appliances for multiple supply	NITER INTER WATER WAT	N/A
dt 5	Warning placed in vicinity of terminal cover	1 A A A	N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	100-240V	Р
white	Different rated values marked with the values separated by an oblique stroke	Maile maile mail	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
LIN .	mit whit whe way we do a	the set of the set	and a
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible	No adjustable device	N/A
LIEX WILL	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram	and an and an and an area	N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless	at water water water water	P
	the power input or current are related to the arithmetic mean value of the rated voltage range	Tet stet with milet	N/A
ret wait	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	set while while while w	Tex P
7.6	Correct symbols used	i stat at a	P
What where	Symbol for nature of supply placed next to rated voltage	while while white wh	P
we way	Symbol for class II appliances placed unlikely to be confused with other marking	unite white white white	s Р "н
The way	Units of physical quantities and their symbols according to international standardized system	et white white y	Р
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	Single supply voltage range	N/A
white	correct mode of connection is obvious	white mile white white	N/A
7.8	Except for type Z attachment, terminals for connection as follows:	on to the supply mains indicated	N/A
Let Mi	- marking of terminals exclusively for the neutral conductor (letter N)	at the state with	N/A
at set	- marking of protective earthing terminals (symbol IEC 60417-5019)	white white we want	N/A
-run Et	- marking of functional earthing terminals (symbol IEC 60417-5018)	water water water water	N/A
and a	- marking not placed on removable parts	outer white white white	√N/A
7.9	Marking or placing of switches which may cause a hazard	No switch used	N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means:	No switch used	N/A
MALIEX	This applies also to switches which are part of a control	- ster street surfer spirit	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
- ANDER ANDER	If figures are used, the OFF position indicated by the figure 0	while while while a	N/A
me m	The figure 0 indicates only OFF position, unless no confusion with the OFF position	unite unit and an	N/A
7.11 🔊	Indication for direction of adjustment of controls	Tet wifet white white	N/A
7.12	Instructions for safe use provided	Refer to user manual	P .
whit	Details concerning precautions during user maintenance	watte watte watte	Р
white	The instructions state that:	white white white w	NP NP
NATES SU	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	and an and an and and	P
t stat	- children being supervised not to play with the appliance	when we are	P
whitek w	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided	white white white w	N/A
NUTER WIN	Instructions for class III appliances state that it must only be supplied at SELV, unless	and white white	N/A
ex where	it is a battery-operated appliance, the battery being charged outside the appliance	a sure while white	N/A
Whitek	For appliances for altitudes exceeding 2 000 m, the maximum altitude is stated	The street minet of	N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	ANTER WATER WATER WAT	N/A
7.12.1	Sufficient details for installation supplied	Tet wifet white white	N/A
whitek	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	A WALTER WALTER WALTER	N/A
whitet a	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	whitet whitet whitet w	N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules	et white white white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions stating that the fixed wiring must be protected	white white white	N/A
7.12.4	Instructions for built-in appliances:	m. m. m	N/A
in we	- dimensions of space	the multi white whi	N/A
8 1	- dimensions and position of supporting and fixing	a stall	↓ N/A
white	- minimum distances between parts and surrounding structure	WATE WATE WAL	N/A
white	- minimum dimensions of ventilating openings and arrangement	WILL'ER WILL'ER WALLE	N/A
INLIER WI	- connection to supply mains and interconnection of separate components	NUTER WALTER WALTER W	N/A
TEX WALT	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	set while while whi	N/A
MULT	a switch complying with 24.3	t allet miller anifes	N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	tet set site	N/A
4	Replacement cord instructions, type Y attachment	when any and a	N/A
Ner an	Replacement cord instructions, type Z attachment	set inter an	N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard	wanter water wanter	N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	WALTER WALTER WALTE	N/A
7.12.8	Instructions for appliances connected to the water m	ains:	N/A
x	- max. inlet water pressure (Pa):	he we see a	N/A
in with	- min. inlet water pressure, if necessary (Pa):	Tet wifet while whi	N/A
et white	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	waiter waiter waite	N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance	suntres whites putter	Р
nin wa	These instructions may be supplied with the appliance separately from any functional use booklet	STER WALTER WALTER WA	Р
t et	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	whit whit whi	Р
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD	WALTE WALTE WALT	P

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Clause	Requirement – Test	Result – Remark	Verdic
NILTE.	and and and and an		and and
Whitek N	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD	white white white	NUTER STREET
7.13	Instructions and other texts in an official language	English	Р
7.14	Markings clearly legible and durable:	LIEK MUTER MAILE MAI	S N PN
ek untre	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified :	at the the state	N/A
ALTER	Uppercase letter of the text explaining the signal word not smaller than 1.6 mm	when we not not	N/A
NUTEX M	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0.25 mm, unless	white white white	N/A
de d	contrasting colours are used	a su st	, ,, P
. white	Markings checked by inspection, measurement and rubbing test as specified	set would would would	Р
7.15	Marking on a main part	On body	P
Milet .	Marking clearly discernible from the outside, if necessary after removal of a cover	tet set with	NUTEX SPL
Set as	For portable appliances, cover can be removed or opened without a tool	when when you a	N/A
et white	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
WALTER	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	white white white	N/A
N ^{LIEK} W	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading	MITTER WAITER WAITER W	N/A
511- 54 - 568	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	it while white white	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	WALLE WALL WALL	N/A
3	PROTECTION AGAINST ACCESS TO LIVE PARTS	out whe whe	Р
3.1	Adequate protection against accidental contact with live parts	street whitet whitet wh	ST NS P
3.1.1	Requirement applies for all positions, detachable parts removed	et minet minet whis	et Jun Tet P
. Jiet	Lamps behind a detachable cover not removed, if conditions met	- at not not	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
ME	Incertion or removal of lamps, protection equinat	and the set of the set	
det.	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	with with the set	N/A
nr n	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	united waite waite and	P
the south	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	LIEX WAITER WAITE WAITE	3 N P.S
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	A WHITEK WHITEK WHITEK W	P.C
MITEX W	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	whet white white white	N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements	No visible glowing heating elements	N/A
with	For a single switching action obtained by a switching device, requirements as specified	white white where wh	N/A
white whi	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug from a socket-outlet	white white white white	N/A
8.1.4	Accessible part not considered live if:		
white	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	whit whi whi a	N/A
where	- safety extra-low d.c. voltage: not exceeding 42.4 V	Max. 30.3V d.c.	P
minet of	- or separated from live parts by protective impedance	the state state with	F P
Set at	If protective impedance: d.c. current not exceeding 2 mA, and	and the set set	N/A
	a.c. peak value not exceeding 0.7 mA	Max. 0.139mA	Р
WALTE	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 μF	* white white white w	N/A
WALTER V	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	wiret whilet whitet whit	N/A
NUTEX IN	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	state white white white	N/A
8.1.5	Live parts protected at least by basic insulation befo	re installation or assembly:	N/A
ma	- built-in appliances	et milet while while a	N/A
- 1	- fixed appliances	a de de	N/A
an.	- appliances delivered in separate units	with mit white wh	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
	with which which which we	the state of the	and a strange
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only	which which which whi	P
it with	Only possible to touch parts separated from live parts by double or reinforced insulation	are write write write	P
9 350	STARTING OF MOTOR-OPERATED APPLIANCES	et wires intre- white.	N/A
MUTER	Requirements and tests are specified in part 2 when necessary	Tet used with a	N/A
10	POWER INPUT AND CURRENT	The an in the	P
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	ALTER WALTER WALTER WALT	N/A
WALTER S	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period	WALLS WALLS WALLS	N/A
illet was	Otherwise the power input is the arithmetic mean value	et white white	N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	white white white	N/A
WALTER	the rated power input is related to the arithmetic mean value	white white white w	N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	Set MULP
A white	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period	a de de	N/A
m. 1	Otherwise the current is the arithmetic mean value	white white white w	N/A
NUTEX W	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	stret waitet water water	P
ie mut	the rated current is related to the arithmetic mean value of the range	et white white white	N/A
11 5	HEATING	t at all all	S P
11.1	No excessive temperatures in normal use	when when we a	Р

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Clause	Requirement – Test	Result – Remark	Verdic
44.0	The exclusion is hold, placed or fixed in position of		
11.2	The appliance is held, placed or fixed in position as described:	Placed in the test corner as specified	P
11.3	Temperature rises, other than of windings, determined by thermocouples	By thermocouples	Р
	Temperature rises of windings determined by resistance method, unless	The watthe wards waite	N/A
WALTE	the windings makes it difficult to make the necessary connections	at writes writes writes w	P.C
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) :	intret intret watter white	N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	(see appended table)	P.
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	set white white white w	N/A
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	white white white wh	Р
11.8	Temperature rises monitored continuously and not exceeding the values in Table 3	(see appended table)	JUL P
NUTER WAY	If the temperature rise of a motor winding exceeds the value of Table 3, or	et multi multi	N/A
iet white	if there is doubt with regard to classification of insulation,	and white white white	N/A
- 15	tests of Annex C are carried out	a a de	N/A
m	Sealing compound does not flow out	white white white whi	N/A
det .	Protective devices do not operate, except	a at at at	P
n n	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	and which was war	N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	Р
13.1	Leakage current not excessive and electric strength adequate	A MALTER MALTER MALTER MA	Р
white a	Heating appliances operated at 1.15 times the rated power input (W)	WALTER WALTER WALTER WALT	N/A
NUTER WA	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V):	(see appended table)	NUT P
in white	Protective impedance and radio interference filters disconnected before carrying out the tests	et source would source a	P
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	whet white white wh	ST NP T

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Clause	Requirement – Test	Result – Remark	Verdic
Whitek an	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter	while while while a	N/A
	Leakage current measurements:	(see appended table)	Р
13.3 🔊	The appliance is disconnected from the supply	THE MITE MATE WAIT	N P.V
8 1	Electric strength tests according to Table 4:	(see appended table)	John P
m	No breakdown during the tests	and white white white	P
14 🖉	TRANSIENT OVERVOLTAGES	the state	N/A
What here	Appliances withstand the transient over-voltages to which they may be subjected	water we water	N/A
nt w set at	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 :	ALTER WALTE WALT WAL	N/A
20	No flashover during the test, unless	and the me	N/A
MALTE	of functional insulation if the appliance complies with Clause 19 with the clearance short-circuited	Intret water water	N/A
15 🖑	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	white white white white	N/A
et white	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	antite water water	N/A
whitek	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	WALTER WALTER WALTER W	N/A
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	IPX0	N/A
inet whi	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	Tet whitet white white	N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	A MALIER MALIER MALIE	N/A
WALTER V	Built-in appliances installed according to the instructions	WALTER WALTER WALTER W	N/A
neret win	Appliances placed or used on the floor or table placed on a horizontal unperforated support	with white white whi	N/A
Tex white	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	et anitet anitet anitet	N/A
	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	watter watter watter	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
in the	and some some some so	t the set of	and the south
Whitek at	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	white white white	N/A
ister whi	for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube	Tet white white wh	N/A
	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	A WALTER WHITE WALT	N/A
WALTER .	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	white white white	N/A
SEX WALS	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	ret antiet antiet whi	N/A
	Appliances with type X attachment fitted with a flexible cord as described	t writet miret white	N/A
Whitek .	Detachable parts subjected to the relevant treatment with the main part	tet set weet	N/A
inet with	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	and which which which	N/A
15.2	Spillage of liquid does not affect the electrical insulation	and the south south	N/A
nuet	Spillage solution comprising water containing approximately 1 % NaCl and 0.6 % rinsing agent	the state state	N/A
Set .	Appliances with type X attachment fitted with a flexible cord as described	when when we we	N/A
sex whi	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	and when when we	N/A
4 .0	Detachable parts removed	111. 11. 1	N/A
where	Overfilling test with additional amount of the solution, over a period of 1 min (I) :	Multi walite wali	N/A
walte	The appliance withstands the electric strength test of 16.3	whitek whitek white.	N/A
we we	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	street water water wa	N/A
5.3	Appliances proof against humid conditions	et allet alle and	N RO
- INLIEK	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	- the set set	INTE NUM
d.	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	Mr. M. M.	P

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Clause	Requirement – Test	Result – Remark	Verdict
550	and the show when the state	1 at 10 50 50	S. S. S.
-to.	Humidity test for 48 h in a humidity cabinet	25°C, 93% R.H.	Р
MALTERN	Reassembly of those parts that may have been removed	MUTER MUTER MUTER MUTER	N/A
de s	The appliance withstands the tests of clause 16	at at let let	́Р,
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	it whit whit where we	Р
16.1	Leakage current not excessive and electric strength adequate	A WALLEY WALLEY WALLEY WAL	P (
Whitek.	Protective impedance disconnected from live parts before carrying out the tests	with milet multi white	P
NUTEX N	Tests carried out at room temperature and not connected to the supply	The state strate with	N ^{LT} P-
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	(see appended table)	THE P
5	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)	white white with an	N/A
w.	Leakage current measurements:	(see appended table)	P
Set	Limit values doubled if:	at at the set	N/A
m. 1	- all controls have an off position in all poles, or	which which which which	N/A
inter whi	- the appliance has no control other than a thermal cut-out, or	at white white a	N/A
EK WALTE	- all thermostats, temperature limiters and energy regulators do not have an off position, or	and white white white wh	N/A
- 15	- the appliance has radio interference filters	a at the to	N/A
white	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	water water water water	N/A
16.3 📣	Electric strength tests according to Table 7	(see appended table)	N P
ret suri	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified:	Tet waitet waitet waitet of	N/A
y are	No breakdown during the tests	t at the states	P
17	OVERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	Р
WALTE V	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use:	(see appended table)	P
nti yun ret jir	Appliance supplied with 1.06 or 0.94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)	1.06x240V=254.4V	P S
240	Basic insulation is not short-circuited	water water with with	Р
WILLEY	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K	whitet whilet white white	Р

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Clause			
10	Requirement – Test	Result – Remark	Verdict
with the	Temperature of the winding not exceeding the value specified in table 8,	white white white	Р
Net al	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	and and and an	N/A
8	ENDURANCE	the write with with	N/A
WALTE	Requirements and tests are specified in part 2 when necessary	A WHITEK WHITEK WHITEK	N/A
9	ABNORMAL OPERATION	. A lat lat	S P
9.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	white white white whi	et P
ist mir	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	(see appended table)	- THE P
+ Jiet	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	with with the	N/A
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	and and and and	N/A
A	if applicable, to the test of 19.5	Mr. Mr. M.	N/A
in m	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	white white	N/A
White	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	WALTER WALTER WALTER	N/A
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	source sources sources a	P
ret of	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	NUTE MALE MALE MA	N/A
4	Appliances incorporating voltage selector switches subjected to the test of 19.15	winth wint with	N/A
whitek.	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	south south south	N/A
24 1	until steady conditions are established	mer me me m	Р
itien wh	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	street waiter waiter wait	N/A
9.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0.85 times rated power input (W)	et and set ret	N/A
9.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W)	which which which we	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	which which which	N/A
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the elements sheath	ANTE MATT MATT	N/A
ex white	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	anaret aniset anise	N/A
White .	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4	whilet whilet while	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	at at at	N/A
watter w	The working voltage of the PTC heating element is increased by 5 % and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1.5 times working voltage or until the PTC heating element ruptures (V)		N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	at Jot s	N/A
4	locking moving parts of other appliances		N/A
where	Locked rotor, capacitors open-circuited one at a time	worther worther would	N/A
WALTER	Test repeated with capacitors short-circuited one at a time, unless	whitek whitek whitek	N/A
Jet .	the capacitor is of class S2 or S3 of IEC 60252-1	a at at	N/A
iner un	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	and which which we	N/A
et white	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit	Martinet martinet martine	N/A
when y	Other appliances supplied with rated voltage for a period as specified	antifet watter watter	N/A
nice wh	Winding temperatures not exceeding values specified in Table 8	LIEK WALTER WALTER WA	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	et unitet whitet whit	N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	with milet white	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
WALLER W	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test	whilet whilet while while	N/A
iner whi	Winding temperatures not exceeding values as specified:	(see appended table)	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V):	t with milet while w	N/A
Mulet	During the test, parts not being ejected from the appliance	fet stat with and	N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless	and white aniset aniset	P
et 3	they comply with the conditions specified in 19.11.1	i a a at	_≪N/A
Whitek Maintek	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	t ret ret with a	N/A
	restarting does not result in a hazard	me m m	N/A
WALTER W	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4	united writed writed writed	N/A
et white	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out	white white white a	P P
mer	During and after each test the following is checked:	white white white whi	ŴР
INLIEK W	- the temperature of the windings do not exceed the values specified in table 8	The street with south	P
Set out	- the appliance complies with the conditions specified in 19.13	at the set with	P
* 50	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	sure we sur	Р
W.	If a conductor of a printed board becomes open-circle considered to have withstood the particular test, pro- conditions are met:		N/A
Jet .	- the base material of the printed circuit board withstands the test of Annex E	at let let the	N/A
EK WALT	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	et white white white	N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
WILLIEX N	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified	which which which which	N/A
LIFEX WING	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction in other parts of the appliance does not rely on the correct functioning of the electronic circuit	and wonther wonther wonther w	N/A
19.11.2	Fault conditions applied one at a time, the appliance specified in cl. 11, but supplied at rated voltage, the d		Р
white	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	watter watter watter waite	P
w m	b) open circuit at the terminals of any component	white white white white	₩_ B - 2
15 1	c) short circuit of capacitors, unless	i i at at	<i>"</i> ∕⊳ P
- and	they comply with IEC 60384-14	it while while which we	N/A
* white	d) short circuit of any two terminals of an electronic component, other than integrated circuits.	t martin amarter annater anna	P
Whitek W	This fault condition is not applied between the two circuits of an optocoupler	THE STAR MICH WITH	P
A	e) failure of triacs in the diode mode	we see a st	N/A
in me	f) failure of an integrated circuit	at any second something	P-4
at de	g) failure of an electronic power switching device		<i>₫</i> Р
whitek	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made	While while while whi	N/A
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified	ALTER WALTER WALTER WALTER	P
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	STAT WALTER WALTER WALTER AN	N/A
* JIE	a device that can be placed in the stand-by mode	t let let stat wi	N/A
whitek a	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode	which which which which	N/A
neret and	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that	server and the server	N/A
white	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena	MATTER MALTER MALTER MATT	N/A
st	Surge protective devices disconnected, unless	i i to to	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
milite	They incorporate spark gaps	t of states	N/A
15	They incorporate spark gaps	The the second	N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	antifet antifet antifet a	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified	Tet waiter waite wait	N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	white white white	N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified	whet we white and	N/A
Tet white	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	set and much and	N/A
* whitek	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	t tet stat work	N/A
	Earthed heating elements in class I appliances disconnected	when we we	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	white white white a	N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N/A
WALTER	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34	white white white	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	the state what is	N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	Tet white white whi	N/A
20	The appliance continues to operate normally, or	sure sure in	N/A
under al	requires a manual operation to restart	Jet Jet Jet	N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)	when where white whe	P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	sourcet assuret assuret	UNIT PER

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Clause	Requirement – Test	Result – Remark	Verdict
Martin .	Temperature rises not exceeding the values shown in Table 9:	(see appended table)	Р
me u	Compliance with clause 8 not impaired	miller and and and	м ^р Р
ister whi	If the appliance can still be operated it complies with 20.2	The sures much white a	N/A
et white	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tes specified in table 4:		et P
Set	- basic insulation (V)	1000	Р
-to.	- supplementary insulation (V)	1750	Р
State of	- reinforced insulation (V):	3000	νP
Tet Main	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	set while while while w	N/A
Set.	The appliance does not undergo a dangerous malfunction, and	white white with an	P
ur s	no failure of protective electronic circuits, if the appliance is still operable	until write write write	P
in m	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	N/A
er onere	- do not become operational, or	a the same wife an	N/A
MALTER	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	white white white white	N/A
INITEK W	If the appliance contains lids or doors that are contro one of the interlocks may be released provided that:		N/A
TEX MIL	- the lid or door does not move automatically to an open position when the interlock is released, and	tet the state milet	N/A
A strey	- the appliance does not start after the cycle in which the interlock was released	+ 10 10 50 - 10	N/A
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited	where where we are	N/A
Lifet wh	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	the set sint with	N/A
iet would	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	et miret aniret aniret an	N/A
MITER	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	- ret set wet mit	N/A

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	IEC 60335-1		20. 20.
Clause	Requirement – Test	Result – Remark	Verdict
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied	while while while a	N/A
20	STABILITY AND MECHANICAL HAZARDS	an an an an	Р
20.1	Appliances having adequate stability	ster with outer white	N P.V
et would	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn	at white white white	P ST
when	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	white white white you	N/A
1012 - 511 15 ⁶⁴ - 15	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	ALTER WALLER WALL WALL	N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	No moving part	N/A
with	Protective enclosures, guards and similar parts are non-detachable, and	white white white	N/A
where a	have adequate mechanical strength	where aller white wh	N/A
NLTEX	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	and an all the main	N/A
iet white	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	and the second second	N/A
MALTER	Not possible to touch dangerous moving parts with the test probe described	with mitter mitter an	N/A
21	MECHANICAL STRENGTH	the second second	J. P.
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	MUTER WAITE WATER WATER	Р
ex united	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0.5 J.	(see appended table)	Р
Miret .	The appliance shows no damage impairing compliance with this standard, and	set set set	LIFE Pat
Set .	compliance with 8.1, 15.1 and clause 29 not impaired	when when when we we	P
it it	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	NUT WALL WALL WALL	N/A
when	If necessary, repetition of groups of three blows on a new sample	er water water water	N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	Whitek waiter waiter	J ^{elo} P

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Clause	Requirement – Test	Result – Remark	Verdict
White Martex	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	while while while while	Р
L ^{et} of	The insulation is tested as specified, and does withstand the electric strength test of 16.3	at the test state	N/A
22	CONSTRUCTION	in men we we a	Р
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX0	N/A
22.2	Stationary appliance: means to ensure all-pole disco provided:	onnection from the supply being	N/A
	- a supply cord fitted with a plug, or	Not stationary appliance	N/As
de la	- a switch complying with 24.3, or	the second second	N/A
whitek	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	L BE THE STAR	N/A
24	- an appliance inlet	white white and an	N/A
NALIER NAN	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 0I and class I appliances, connected to the phase conductor	and the sender white white	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	and the waited wanted way	N/A
- At	Applied torque not exceeding 0.25 Nm	a state to	N/A
whitek w	Pull force of 50 N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1 mm	White white white	N/A
ret whi	Each pin subjected to a torque of 0.4 Nm; the pins are not rotating, unless	Tet minet whitet whitet of	N/A
A Miller	rotating does not impair compliance with this standard	t that what while and	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	white white white white	N/A
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0.1μ F, the appliance being disconnected from the supply at the instant of voltage peak	stret white white white	ntrP w
1	Voltage not exceeding 34 V (V):	Max. 24V measured	< P.0

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Clause	Requirement – Test	Result – Remark	Verdict
MILLER AN	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	No such electronic circuit	N/A
Set as	The discharge test is then repeated three times, voltage not exceeding 34 V (V):	at let let the	N/A
22.6	Electrical insulation not affected by condensing water or leaking liquid	when when when we	N/A
when	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak	white white white wh	N/A
me	In case of doubt, test as described	NUTER MUTE WALL WALL	Ä/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	MITEX WALTER WALTER WALTER	N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use	set while while while w	N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	No oil, grease or similar substances	PA
dt .	the substance has adequate insulating properties		N/A
22.10	Not possible to reset voltage-maintained non-self resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:	No such device	N/A
WALTER	- a non-self-resetting thermal cut-out is required by the standard, and	wifet whitet whitet white	N/A
UNLIEK	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	The street wiret wiret	N/A
Set and	Non-self-resetting thermal motor protectors have a trip-free action, unless	at we set the	N/A
	they are voltage maintained	s which which are a	N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	water water water water	N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	suntre water water water	Р
dt .5	Obvious locked position of snap-in devices used for fixing such parts	at whe with the	N/A
- Mirek	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	and white white when whe	N/A
	Tests as described	50N, 10s applied on enclosure	P

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Clause	Requirement – Test	Result – Remark	Verdict
Clause			
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	while while while whi	N/A
white w	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	INTE WITT WITT WITT	N/A
et 50	A choking hazard does not apply to appliances for commercial use	and the set	N/A
when	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	WITT WITT WITT W	N/A
m	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	SUPER SUPER SUPER SUPER	N/A
With M	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	ALTER WALTER WALTER WALTER	N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operators hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only	white white white	N/A
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	No ragged or sharp edges	P
nitet ani	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	et white white	P
22.15	Storage hooks and the like for flexible cords smooth and well rounded	and the agentical generation of	N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	whitet whitet whitet wh	N/A
m. n	Cord reel tested with 6000 operations, as specified	mit whit whe whe	N/A
inex whi	Electric strength test of 16.3, voltage of 1000 V applied	Tet whitet waitet waitet	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	t stret suret souret an	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion	tet stet stret and	P
22.19	Driving belts not relied upon to provide the required level of insulation, unless	and with an and	N/A
1. m.	constructed to prevent inappropriate replacement	the when when when	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	et white white white	IN STEE PUN
+ white	material used is non-corrosive, non-hygroscopic and non-combustible	- stat still what we	P

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Clause	Requirement – Test	Result – Remark	Verdict
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	No such materials used as insulation	P
m n	impregnated	miter while while whi	N/A
ister whi	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	Let would would would	N/A
22.22	Appliances not containing asbestos	Not containing asbestos	S B
22.23	Oils containing polychlorinated biphenyl (PCB) not used	Not such parts	P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	softer when when when we	N/A
JEK MIT	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	at the state what	N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts	Whitek whitek whitek wh	N/A
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation		W ^N P
22.27	Parts connected by protective impedance separated by double or reinforced insulation	and the surface of	P
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water: separated from live parts by double or reinforced insulation	while while while whi	N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation	ALTER WATER WATER WATE	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	No parts can be omitted	P
whitek a	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete	white white white white	P
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	aret white white white	P
whitek	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose	- it it it is	Р

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Clause	Requirement – Test	Result – Remark	Verdict
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	Source source source	P
er nite	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2	and white white whi	N/A
WALTER	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	white white white	N/A
INTER OIL	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	NUT PE WALLEY WALLEY W	N/A
TEX WALT	Oxygen bomb test at 70°C for 96 h and 16 h at room temperature	ret aniret whilet and	N/A
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts, or		N/A
What is	unearthed metal parts separated from live parts by basic insulation only	white white white y	N/A
e m	Electrodes not used for heating liquids	The working with	N/A
ret white	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless	and the state with	N/A
đ	the reinforced insulation consists of at least 3 layers	m m	N/A
unt w tet ni	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	NUT WATE WATE	N/A
	the reinforced insulation consists of at least 3 layers	a me me me	N/A
et would	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	* WALLEY WALLEY WALLE	N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	antife until white	N/A
NUTE UN	the shaft is not accessible when the part is removed	the the other of	N/A
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation	et white white whit	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
The state	with which which which we want the	- it it it it	STE NT
amiret an	Such parts being of metal, and their shafts or fixings are likely to become live in the event of an insulation fault, they are either adequately covered by insulation material, or their accessible parts are separated from their shafts or fixings by supplementary insulation	while while white white	N/A
et white	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	A WALLER WALLER WALLER	N/A
miret w	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	NJEK WALTER WALTER WALT	N/A
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless	The writes writes writes	N/A
WALTER V	they are separated from live parts by double or reinforced insulation	milet whilet while wh	N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless	No such capacitor	N/A
n.	the capacitors comply with 22.42	white white where	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	white anites waited an	N/A
22.39	Lamp holders used only for the connection of lamps	No lamp holder	o N/A
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible	Tet wattet wattet wattet	N/A
whitek w	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	white white white white	N/A
22.41	No components, other than lamps, containing mercury	and what when white	P
22.42	Protective impedance consisting of at least two separate components	Two Y capacitors used	Р
with	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	See 8.1.4	P

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Clause	Requirement – Test	Result – Remark	Verdict
- smiller smiller	Resistors checked by the test of 14.1 a) in IEC 60065	MALINE MALINE MALINE MALINE	N/A
an an	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Approved Y capacitors	P
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	No adjustable device	N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	The appliance is not likely to be treated as a toy	P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure	WALTER WALTER WALTER WALTER	WP Mirth
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1	Set wanter wanter wanter wa	N/A
whitek a	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards	white white white white	N/A
NITER WIN	These requirements are not applicable to software used for functional purpose or compliance with clause 11	et white white y	N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use.	white white white w	N/A
WALTER	No leakage from any part, including any inlet water hose	WALTER WALTER WALTER WALTE	N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non potable water	MITER WALTER WAITER WALTER	N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	Tet waiter waiter waiter of	N/A
A WALTER	the appliance switches off automatically or can operate continuously without hazard	* white white white whi	N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	stret stret secret sector	N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode	Allet whilet whilet whilet	N/A
Set white	There is a visual indication showing that the appliance is adjusted for remote operation	et minet assiret assiret as	N/A
+ MULTER	These requirements not necessary on appliances the without giving rise to a hazard:	at can operate as follows,	N/A
4	- continuously, or	10 20 20	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
WILTE	- automatically, or	MIT MATCH WATER	N/A
de la	- remotely	a at at	N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold	And which which a	N/A
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts	at white white white	N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	white white white	N/A
net or	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	ALTER MAILE MALE M	N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are be distinguished from other manual devices by means of shape, size, surface texture or position	Construction which which	N/A
WALLEK V	The requirement concerning position does not preclude use of a push on push off switch	wiret unifet waitet	N/A
det :	An indication when the device has been operated is	given by:	N/A
at at	 tactile feedback from the actuator or from the appliance, or 	a you an	N/A
me	- reduction in heat output; or	and white white white	N/A
- 15	– audible and visible feedback	a at the	N/A
22.56	Detachable power supply part provided with the part of class III construction	watter watter wat	N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T	MITTER WAITE WAITE W	N/A
5 . LA	This requirement does not apply to glass, ceramics or similar materials	it while while while	N/A
23	INTERNAL WIRING	and intermeter white white	N ^M P
23.1	Wireways smooth and free from sharp edges	at at let	P
Mr v	Wires protected against contact with burrs, cooling fins etc.	waith water and	Р
ne un	Wire holes in metal well rounded or provided with bushings	NITE WAITE WATE WA	N/A
Se white	Wiring effectively prevented from coming into contact with moving parts	No moving parts	N/A
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	- stret milet white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
WILL'S C	Beads inside flexible metal conduits contained within an insulating sleeve	which which which w	N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	No movable conductors	N/A
et 50	Flexible metallic tubes not causing damage to insulation of conductors	t what what we	N/A
in	Open-coil springs not used	white white white a	N/A
whiter	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	milet whilet whilet w	N/A
MUTER WI	No damage after 10 000 flexings for conductors flexed during normal use or	is at a start might white	N/A
ret mir	100 flexings for conductors flexed during user maintenance	et tet stet with	N/A
+	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	with with the	N/A
ANT ANT	Not more than 10% of the strands of any conductor broken, and	wints white wine a	N/A
sure s	not more than 30% for wiring supplying circuits that consume no more than 15W	unite unit unit unit	N/A
23.4	Bare internal wiring sufficiently rigid and fixed	the source white	N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	and the work would be	un it P
whiter	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	writek writek writek w	N/A
white w	no breakdown when a voltage of 2 000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	2000V, 15min No Breakdown	P
ex united	For class II construction, the requirements for supplementary insulation and reinforced insulation apply, except	t ret wat wret	N/A
Jet	that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation	at let let	N/A
NN N	A single layer of internal wiring insulation does not provide reinforced insulation	white white white white	N/A
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	et ret ret aret	N/A
t stat	be such that it can only be removed by breaking or cutting	when when any	N/A
23.7	The colour combination green/yellow used only for earthing conductors	Not used	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
NILLE .	The second secon		- service
23.8	Aluminium wires not used for internal wiring	Not used	P
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	Not subject to contact pressure	NUL P
in m	the contact pressure is provided by spring terminals	aret marter marter would be	N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		N/A
24	COMPONENTS	when the start of	P
24.1	Components comply with safety requirements in relevant IEC standards	MITEL MALIER WAITE MALIE	р Р - S
JER NALL	List of components:	(see appended table)	· P _o r
t stret	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	with set set set	N/A
	Relays tested as part of the appliance, or	when when when we	N/A
WALTER V	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	uniter whiter white white	N/A
NUTEX JUNI	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	et a white white y	P
white 	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	white white white we	Р
whitek w	30.2 of this standard apply to parts of non-metallic material in components including parts of non metallic material supporting current-carrying connections	WALTER WALTER WALTER	P
iret whi et siret	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2	Tet water water water a	LICE P
whitek.	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met	white white white	P
n m	If these conditions are not satisfied, the component is tested as part of the appliance.	white water water water	P
Jit whit	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	er porter porter porter po	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
ALTEX (If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with	SAL OF STORE STORE	Р
an an	24.1.1 to 24.1.9	MILT MILL MILL MILL	74
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9	and white white white a	C P
ANALLER .	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance	antifet antifet antifet antife	P
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard	ALTER MALIER WALLER WALLER	N/A
WALTER W	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309	White white white white	NP MULTER
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14	Approved	P
- Let	If the capacitors have to be tested, they are tested according to Annex F	white white white white	N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16	watter watter water water	N/A
with w	Safety isolating transformers complying with IEC 61558-2-6	ALTER WATER WALTER WATER	N/A
TER WAL	If they have to be tested, they are tested according to Annex G	Tet waitet water water w	P
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000	* with whith whith whit	N/A
WALTER	If they have to be tested, they are tested according to Annex H	stat what what white	N/A
Jet m	If the switch operates a relay or contactor, the complete switching system is subjected to the test	at the training	N/A
Tet WALTE	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested	et milet milet milet mi	N/A
24.1.4	Automatic controls comply with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		N/A

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Clause	Requirement – Test	- m	Result – Remark	Verdict
WILTE	thermostate	40.000	and whet when	
	- thermostats:	10 000	The the the	N/A
and a strong	- temperature limiters:	1 000	and the second second	N/A
10	- self-resetting thermal cut-outs:	300	11. 24. A.	N/A
the wet	- voltage-maintained non-self-resetting thermal cut-outs	1 000	LIET WALTER WALTER WA	N/A
et alle	- other non-self-resetting thermal cut-outs	30	of left left life	N/A
	- timers:	3 000	mur mur m	N/A
Intre	- energy regulators:	10 000	at set set	N/A
minet w	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		N/A	
ster which the state	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D.		N/A	
	For water valves containing live parts and the incorporated in external hoses for connection appliance to the water mains, the degree of protection provided by enclosures against he ingress of water declared for subclause 6.5. 60730-2-8 shall be IPX7	on of an armful	white white white	N/A
iet watte	Thermal cut-outs of the capillary type comp the requirements for type 2.K controls in IE0 60730-2-9		and the second second	N/A
24.1.5	Appliance couplers complying with IEC 60320-1		Approved	e P
whitek at	However, for class II appliances classified h than IPX0, the appliance couplers comply w 60320-2-3		white white white	N/A
Set as	Interconnection couplers complying with IEC 60320-2-2		in sur in a	N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		No lampholders	N/A
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		watter watter watter	N/A
24.1.8	The relevant standard for thermal links is IEC 60691		wifer miles while w	N/As
Set white	Thermal links not complying with IEC 6069 ⁴ considered to be an intentionally weak part purposes of Clause 19		et white white whi	N/A
24.1.9	Contactors and relays, other than motor sta relays, tested as part of the appliance	rting	whet whet white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
AND THE AND	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance	antiet antiet antiet	N/A
24.2	Appliances not fitted with:	it it it is	ST P S
et	- switches, automatic controls or power supplies in flexible cords	e at at at	P
WALTER .	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	white white white	P
allet a	- thermal cut-outs that can be reset by soldering, unless	at at at	Int P
1 2	the solder has a melding point of at least 230 °C	up me me m	N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions	Set whilet whilet while	N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1	untret untret untret u	N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	while while while	N/A
	Voltage across capacitors in series with a motor winding does not exceed 1.1 times rated voltage, when the appliance is supplied at 1.1 times rated voltage under minimum load	White white white	N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42V		N/A
	In addition, the motors are complying with the requirements of Annex I	with with with	N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	MALTE WALL WALL	N/A
	They are supplied with the appliance	with miles white w	N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	et aniret aniret anir	N/A

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Clause	Requirement – Test Result – Remark	Verdict
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure	N/A
50 .5	One or more of the following conditions are to be met:	N/A
et 5	- the capacitors are of class S2 or S3 according to IEC 60252-1;	N/A
	- the capacitors are housed within a metallic or ceramic enclosure	N/A
white .	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	N/A
mere w	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	N/A
LIER WALT	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	N/A
25 🖉	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS	P
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:	Р
whitek wh	- supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance;	N/A
iet white	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	P Surt
+ st	- pins for insertion into socket-outlets	P,
25.2	Appliance not provided with more than one means of connection to the supply mains	Р
and an	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown	N/A
25.3	Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:	N/A
MALTER	- a set of terminals allowing the connection of a flexible cord	N/A
1th	- a fitted supply cord	N/A
ne vi	- a set of supply leads accommodated in a suitable compartment	N/A
NALIEK NALIEK	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	N/A

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Clause	Requirement – Test Result – Remark	Verdic		
NUTER N	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	N/A		
et white	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support	N/A		
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to Table 10 (mm)	N/A		
LIEK WILL	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in Clause 29	N/A		
25.5	Method for assemble supply cord with the appliance:	N/A		
- 44 - L	- type X attachment	N/A		
MULLER S	- type Y attachment	N/A		
14	- type Z attachment, if allowed in part 2	N/A		
ner m	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	N/A		
re-would wuret	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment	N/A		
25.6	Plugs fitted with only one flexible cord	N/A		
25.7	Supply cords, other than for class III appliances, being one of the following types:	N/A		
	- rubber sheathed (at least 60245 IEC 53)	N/A		
in mi	- polychloroprene sheathed (at least 60245 IEC 57)	N/A		
et white	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11	N/A		
mulek	light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg	N/A		
State .	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	N/A		
10 S.	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords	N/A		
Whitek Millek	heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	N/A		
	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	N/A		

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Clause	Requirement – Test	Result – Remark	Verdic
NILLE .			
	- halogen-free, low smoke, thermoplastic insulated an	la sneathea	N/A
MALIE W	Light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable	untifet whitet whitet whit	N/A
	Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable	TER WHITE WAITE WAITE	N/A
. let	Supply cords for class III appliances adequately insulated	which which when a	N/A
when a	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	white white white wh	N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²) :	nate water water and	N/A
25.9	Supply cord not in contact with sharp points or edges	sunti wat wat	N/A
25.10	Supply cord of class I appliances have a green/yellow core for earthing	White white white w	N/A
surface a	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.	united white white whi	N/A
LIER MA	Where additional neutral conductors are provided in	the supply cord:	N/A
et	 other colours may be used for these additional neutral conductors; 		N/A
Mutet	 – all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 	which which which is	N/A
at	- the supply cord is fitted to the appliance	an an a	N/A
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless	ALLER WALLER WALLER WALL	N/A
-24	the contact pressure is provided by spring terminals	an music and an	N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	* white white white	N/A
25.13	Inlet opening so shaped as to prevent damage to the supply cord	stret minet aninet and	N/A
nister wa	If it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	stret would would would	N/A
whit	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	and while while while	N/A
WALL	class 0, or	- the street while at	N/A
. de	a class III appliance not containing live parts	M. M. M.	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
MILTER	Sha water water water and	the set states	I I I I
25.14	Supply cords moved while in operation adequately protected against excessive flexing	when when we we	N/A
me a	Flexing test, as described:	NUTE MALTE MALE WAS	N/A
	- applied force (N):		N/A
24.	- number of flexings	in most white white	N/A
the state	The test does not result in:	- at set set	N/A
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	when when when	N/A
with .	- breakage of more than 10% of the strands of any conductor	white white white w	N/A
in m	- separation of the conductor from its terminal	iter uniter while whi	N/A
et 3	- loosening of any cord guard	s at at at	N/A
- an	- damage to the cord or the cord guard	MALL WALL MAL	N/A
+ WALTER	- broken strands piercing the insulation and becoming accessible	wifet aniret aniret	N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	ALTER WALTER WALTER WA	N/A
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		N/A
- At	Pull and torque test of supply cord:	1 1 A	N/A
M. Et	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)	white white white w	N/A
un w	- other appliances: values shown in Table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm):	et ret stet stre	N/A
+ 50	Cord not damaged and max. 2 mm displacement of the cord	with all with	N/A
25.16	Cord anchorages for type X attachments constructed a	and located so that:	N/A
STER	- replacement of the cord is easily possible	at at at	N/A
50°	- it is clear how the relief from strain and the prevention of twisting are obtained	in an an a	N/A
in an	- they are suitable for different types of supply cord;	it while white white	N/A
iet white	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	* united whited whited	N/A
- Millet	they are separated from accessible metal parts by supplementary insulation	the set with	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
MILIE	the could is not alcowned by a matel account which	t with with white	
<u>it</u>	- the cord is not clamped by a metal screw which bears directly on the cord	when you we want	N/A
hr white	- at least one part of the cord anchorage securely fixed to the appliance, unless	MUTE WALTE MALL WAL	N/A
in m	it is part of a specially prepared cord	LIEX MITER WITE WAITE	N/A
et white	- screws which have to be operated when replacing the cord do not fix any other component, if applicable	A white white white	N/A
WALTER	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	maret anaret amaret we	N/A
INLIEK WI	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	and white maret unit	N/A
ret whit	- for Class 0, 0I and I appliances: they are of insulating material or are provided with an insulating lining, unless	Tet water water water	N/A
	failure of the insulation of the cord does not make accessible metal parts live	with white white	N/A
	- for Class II appliances: they are of insulating material, or	stat strat minat and	N/A
Sufet in	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
ist which	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	a the wint would	N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Mouset anuset mouset an	N/A
25.18	Cord anchorages only accessible with the aid of a tool, or	which applied applied appl	N/A
LIEK WAL	so constructed that the cord can only be fitted with the aid of a tool	set used muset among	N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	t tot stat work	N/A
. STEK	Tying the cord into a knot or tying the cord with string not used	when when we we	N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	and which when we	N/A
25.21	Space for supply cord for type X attachment or for constructed:	onnection of fixed wiring	N/A
t unit	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	et white white white	N/A
with the	- so there is no risk of damage to the conductors or their insulation when fitting the cover	which which which we	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
WALLEK W	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts	white white white	N/A
iner whi	2 N test to the conductor for portable appliances; no contact with accessible metal parts	Let white white wh	N/A
25.22 🦽	Appliance inlet:	1 1 1 1 B	P S
W. Ek	- live parts not accessible during insertion or removal	white white white	N/A
whit .	Requirement not applicable to appliance inlets complying with IEC 60320-1	WALTER WALT WALT	N P
in The	- connector can be inserted without difficulty	stret wifet white w	51 _ 51 P <
d is	- the appliance is not supported by the connector		, , , P
s white	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless	ret watter watte wat	N/A
WALT	the supply cord is not likely to touch such metal parts	white white white	N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	Output cord	N ^{LTE} M ^P
NITEK WAY	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	and white was	STATE STATE
er where	- the thickness of the insulation may be reduced	and the state out	P
white	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met	whitek whitek whitek	Р
Weiter W	If necessary, electric strength test of 16.3	white miles white w	N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected	Tet water water wat	N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	watter water water	N/A
white v	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	white white white.	N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS	NITE WALT WALL W	N/A
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	et watter watter wat	N/A
white	Terminals only accessible after removal of a non-detachable cover, except	Whitek watter white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
The second	and white white white you	the set set	and and
	for class III appliances that do not contain live parts	when when we	N/A
NALIEN N	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	white white white w	N/A
26.2	Appliances with type X attachment and appliances for connection to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	white white white	N/A
Maile .	the connections are soldered	the state state.	N/A
Jet .	Screws and nuts serve only to clamp supply conductors, except	at set set	N/A
ifet whit	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	the work white white	N/A
* white	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	white white white	N/A
WALTER WA	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	unitet whitet whitet w	N/A
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor	a votet votet votet	N/A
đ	Terminals fixed so that when the clamping means is	tightened or loosened:	N/A
me a	- the terminal does not become loosen	when white white we	N/A
de d	- internal wiring is not subjected to stress	1 1 1 1	>
t in	- neither clearances nor creepage distances are reduced below the values in Clause 29	are watch wat wat	N/A
whitek	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm)	White white white	N/A
1th	No deep or sharp indentations of the conductors	and the state	N/A
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and	Et white white white	N/A
white	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened	WALTER WALTE WALTE	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	White white white	N/A
State of	Stranded conductor test, 8 mm insulation removed	at at at at	N/A
et de	No contact between live parts and accessible metal parts and,	and the state of	N/A
MUTER	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	which which which which	N/A
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to Table 13; rated current (A); nominal cross-sectional area (mm ²):	ANT WITH WALLEY	N/A
t set	If a specially prepared cord is used, terminals need only be suitable for that cord	and when we are a	N/A
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure	white white white with	N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	when when we when the w	N/A
26.9	Terminals of the pillar type constructed and located as specified	a the substanties were	N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	tet tet with any	N/A
Jet .	conductors ends fitted with a device suitable for screw terminals	wat was set of set	N/A
m. m	Pull test of 5 N to the connection	mer whe whe we	N/A
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used	ster whiter whiter whiter w	N/A
et white	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	A MALTER MALTER MALTER MAL	N/A
whitek wh	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free		N/A
27 5	PROVISION FOR EARTHING	at let let stat a	ST P.S
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	This series power supply are Class II construction appliances with functional earth with class I or class II appliance inlet	P WALTER

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Clause	Requirement – Test	Result – Remark	Verdict
NILL'	and which when we are	t state state state	White white
<u>it</u>	Earthing terminals and earthing contacts not connected to the neutral terminal	white white we	Р
nn n	Class 0, II and III appliances have no provision for earthing	MUTER MOUTE WOULD W	P
	Class II appliances and class III appliances can incorporate an earth for functional purposes	white white sur	N/A
er antre	Safety extra-low voltage circuits not earthed, unless	at what what while	N/A
	protective extra-low voltage circuits	me m m	N/A
27.2	Clamping means adequately secured against accidental loosening	while while while	N/A
INLIER AU	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and	NUTER SOUTH SOUTH SO	N/A
- wint	do not provide earthing continuity between ifferent parts of the appliance, and	NOTE WATER WATER WATER	N/A
WALT	conductors cannot be loosened without the aid of tool	WALTER WALTER WALTER	N/A
whiter s	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	untret sentret sentret s	N/A
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part	and a second second second	N/A
white	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	surfice surfice surfice	N/A
nn w	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	ALLE MALE MALE M	N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal	t when when where	N/A
WALTER	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	source source source	N/A
niter wh	If of steel, these parts provided with an electroplated coating with a thickness at least 5 μm	with white white w	N/A
Set winter	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	et aniret aniret anir	N/A
WALTE	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion	white white white	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
Clause	Inequirement – Test	Result – Remark	veruici
WILL MANTER M	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	softice softer softer	N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts	it set set a	N/A
et woure	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided that clearances of basic insulation are based on the rated voltage of the appliance	et white white white	N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	antific anti-	N/A
5 ⁴⁴	Resistance not exceeding 0.1 Ω at the specified low-resistance test (Ω)	at at at a	N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances.	- white wires wires	N/A
would be	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	unifet unifet unifet	N/A
nto sur 12t sur	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	and the second s	N/A
28	SCREWS AND CONNECTIONS	when which when	P
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	White white white	WALT WP
white w	Screws not of soft metal liable to creep, such as zinc or aluminium	NUTER WAITE WALTE W	P
	Diameter of screws of insulating material min. 3 mm	set uset niset in	N/A
et white	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	+ white white white	N/A
Junifet .	Screws used for electrical connections or connections providing earthing continuity screw into metal	watter watter watter	N/A
nute w	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	white white white wh	N/A
Whitek	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation	antife antife anti	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
- III	and and all all and a set	- the set of the star	- NALLY
jit.	For screws and nuts; torque-test as specified in Table 14	source sources and	N/A
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless	and the solution solution solution a	N/A
ex white	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	A WALLEY WALLEY WALLEY WAL	N/A
white	This requirement does not apply to electrical connect which:	tions in circuits of appliances for	N/A
INLIEK WI	• 30.2.2 is applicable and that carry a current not exceeding 0.5 A	NITER MUTER MAILER MALER	N/A
ret whit	• 30.2.3 is applicable and that carry a current not exceeding 0.2 A	ret maret maret and an	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	white white white whit	N/A
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	white white white white	N/A
et 5.	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	the second second	N/A
whitek	Thread-cutting, thread rolling and space threaded so connections providing earthing continuity provided it connection:		N/A
1	- in normal use,	me me me	N/A
Intre M	- during user maintenance,	and and and and	N/A
Set and	- when replacing a supply cord having a type X attachment, or	at the set with	N/A
	- during installation	when the second second	N/A
WALTE	At least two screws being used for each connection providing earthing continuity, unless	VINITE WAITER MALIE WAS	N/A
MALTER	the screw forms a thread having a length of at least half the diameter of the screw	white white white white	N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	stret white white white	N/A
with the set	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	water water water	N/A
man	if an alternative earthing circuit is provided	with our white white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
MILLER AN	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	while while while a	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SO		Р
in whi	Clearances, creepage distances and solid insulation withstand electrical stress	LIFE WALTER WALTE WALT	Po
white sublice	For coatings used on printed circuits boards to protect the microenvironment (type 1) or to provide basic insulation (type 2), Annex J applies	white white white.	N/A
when y	The microenvironment is pollution degree 1 under type 1 protection	white white white w	N/A
Intit wh	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	NATER MALIER WALTER WAT	N/A
	These values apply to functional, basic, supplementary and reinforced insulation:	t tet stat wiret	N/A
29.1	Clearances not less than the values specified in Table 16, taking into account the rated impulse voltage for the overvoltage categories of Table 15, unless	(see appended table)	P
	for basic insulation and functional insulation they comply with the impulse voltage test of Clause 14	att suntres sunt	N/A
WALTER WALTER	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1 500 V and above are increased by 0.5 mm and the impulse voltage test is not applicable	white white white	P.C
NNLIEK W	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1	Martek whitek whitek whi	N/A
- 241	Impulse voltage test is not applicable:	it's white white white	N/A
et white	- when the microenvironment is pollution degree 3, or	A WALLEY WALLEY WALLEY	N/A
WALTER S	- for basic insulation of class 0 and class 0 appliances, or	stret suffet antifet an	N/A
NUTEX NO	- to appliances intended for use at altitudes exceeding 2 000 m	and a feet with with	N/A
4	Appliances are in overvoltage category II	in the the the	Р
in much	A force of 2 N is applied to bare conductors, other than heating elements	et waitet waiter waiter	m Pri
5	A force of 30 N is applied to accessible surfaces	to the the	S P

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Clause	Requirement – Test	Result – Remark	Verdic
- Lite	with white after and and	the set of the set	
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	white white white white	P
int in	The values of Table 16 or the impulse voltage test of Clause 14 are applicable:	(see appended table)	P
et white	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1.0 mm if the microenvironment is pollution degree 1	the work with white white	N/A
INLIEK	Lacquered conductors of windings considered to be bare conductors	The state with mill	P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in Table 16	(see appended table)	P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in Table 16, using the next higher step for rated impulse voltage	(see appended table)	P
whitek a	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation	white white white whe	P
29.1.4	Clearances for functional insulation are the largest values determined from:		Σ P ≤
d . d	- Table 16 based on the rated impulse voltage :	(see appended table)	J P
Mrs.	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	white white white with	N/A
wint	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	white white white white	Р
white w	If values of Table 16 are largest, the impulse voltage test of Clause 14 may be applied instead, unless	MITER WALTER WALTER WALTER	Р
Set out	the microenvironment is pollution degree 3, or	at not stat what	N/A
et .5et	the distances can be affected by wear, distortion, movement of the parts or during assembly	war with sur a	N/A
WILLEX .	However, clearances are not specified if the appliance complies with Clause 19 with the functional insulation short-circuited	The components and circuits after current fuse	P
Set of	Lacquered conductors of windings considered to be bare conductors	when we are the	P
19 J	However, clearances at crossover points are not measured	and when we	Р
t st	Clearance between surfaces of PTC heating elements may be reduced to 1mm	White white white wh	N/A
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	«Р

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Clause	Requirement – Test	Result – Remark	Verdic
-an-	- Table 16 based on the rated impulse voltage :	where where where where	Р
WALTER W	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	milet while whilet while	N/A
inet whi	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	Liet wird whilet whilet	N. S. P
et waited	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation	A super super super super super	P
ALTER W	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160 % of the withstand voltage required for basic insulation	NUTER WALLER WALLER WALLER	N/A
* writet	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation	while while while whi	P
vunite v nitet vuni	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in Table 16, but using the next lower step for rated impulse voltage	white white where whe	N/A
whitek	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in Table 15	white white white white	N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	(see appended table)	P
SET ME	Pollution degree 2 applies, unless	it it is all all a	ST P _S
et stet	- precautions taken to protect the insulation; pollution degree 1;	t at not sold a	N/A
Tet	- insulation subjected to conductive pollution; pollution degree 3	white white white we	N/A
wer s	A force of 2 N is applied to bare conductors, other than heating elements	antit while while some	Р
ne m	A force of 30 N is applied to accessible surfaces	where while while while	л [™] Р
set white	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system	et while while while w	P
29.2.1	Creepage distances of basic insulation not less than specified in Table 17	(see appended table)	P
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

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Clause	Requirement – Test	Result – Remark	Verdict
Whitek sonutiek w	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from Table 2 of IEC 60664-4, these values being used if exceeding the values in Table 17	whilet whilet whitet wh	N/A
et white	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in Table 16, if the clearance has been checked according to the test of Clause 14:	at white white white	N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in Table 17, or	(see appended table)	P
le ru	Table 2 of IEC 60664-4, as applicable:	Ner while whi wh	N/A
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in Table 17, or	(see appended table)	Р
with	Table 2 of IEC 60664-4, as applicable	t wifet miller and	N/A
29.2.4	Creepage distances of functional insulation not less than specified in Table 18	(see appended table)	P.M
NUTER JUN	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from Table 2 of IEC 60664-4, these values being used if exceeding the values in Table 18	ant war war wart	N/A
MALTER	Creepage distances may be reduced if the appliance complies with Clause 19 with the functional insulation short-circuited	which which while a	P NIT JUNIT
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	NITER WALTER WALTER WAS	Set P-
Str. S	Compliance checked:	at at alt all	P
24	- by measurement, in accordance with 29.3.1, or	and and an	P
er white	- by an electric strength test in accordance with 29.3.2, or	MALTER WALTER WALTER	P
whitek .	- for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and	whitet whitet whitet w	N/A
Tex white	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	et the tree with	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
Clause	Requirement – rest	Result – Remaik	Veruic
whitek w	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or	white white white wh	N/A
et mite	- as specified in Subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz	at the tet atter	N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm	when we get	Р
WIT -	Reinforced insulation have a thickness of at least 2 mm	whit whit whit w	Р
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	ALTER MALT WALL WAL	Р
IL WALL	Supplementary insulation consist of at least 2 layers	let wheet wheet white	Su Bu
4 <i>1</i>	Reinforced insulation consist of at least 3 layers	the second second	P
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	watter watt water	N/A
MALTE V	the electric strength test of 16.3	stat state with st	N/A
NITEL WAY	If the temperature rise during the tests of Clause 19 does not exceed the value specified in Table 3, the test of IEC 60068-2-2 is not carried out	at an inter water	State P
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in Table 19	water waiter water	N/A
30	RESISTANCE TO HEAT AND FIRE	Tet whet white a	N ST N
30.1	External parts of non-metallic material,	with the second	. Р-
mer w	parts supporting live parts, and	surer intreasonate white	P
inex whi	thermoplastic material providing supplementary or reinforced insulation,	set uset whet will	P
4	sufficiently resistant to heat	when we we	Р
MALL	Ball-pressure test according to IEC 60695-10-2	t allet antier white	JN P
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of Clause 11, or at 75 °C, whichever is the higher; temperature (°C)	(see appended table)	P S
ret units	Parts supporting live parts tested at 40 °C plus the maximum temperature rise determined during the test of Clause 11, or at 125 °C, whichever is the higher; temperature (°C):	(see appended table)	P

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an.	IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict	
whitek w	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during Clause 19, if higher; temperature (°C)	whilet whilet whilet wh	N/A	
30.2	Parts of non-metallic material resistant to ignition and spread of fire	and white white	Р	
WALT	This requirement does not apply to:	et allet allet white	J P	
whitek	parts having a mass not exceeding 0.5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or	Whitek whitek whitek w		
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	oute south south south	N/A	
*	Compliance checked by the test of 30.2.1, and in addition:	when we we	Р	
-un-	- for attended appliances, 30.2.2 applies	which which when it	N/A	
State .	- for unattended appliances, 30.2.3 applies	the state of a	S. P	
50	For appliances for remote operation, 30.2.3 applies	ner mer mer m	N/A	
NUTE MAY	For base material of printed circuit boards, 30.2.4 applies	et white white	VILLE P.M	
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C	(see appended table)	AND	
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or	watter watter watter w	N/A	
where w	the material is classified at least HB40 according to IEC 60695-11-10	NITER WAITER WAITER WAT	N/A	
inet whi	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	aret white white white	N/A	
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	whilet writer white	N/A	
where a	parts of non-metallic material within a distance of 3mm of such connections,	sonth sonth sont sol	N/A	
ne wi	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	stree white white white	N/A	
It whit	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	et white white white	N/A	
NUTE	- 650 °C, for other connections	- Jet Jet Jet	N/A	
dr.	Glow-wire applied to an interposed shielding material, if relevant	way with the st	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict
WILLE WILLE	The glow-wire test is not carried out on parts of mate glow-wire flammability index according to IEC 60695		N/A
nn n N	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	White white white white	N/A
in me	- 650 °C, for other connections	JEt wifet mile white w	N/A
* 1	The glow-wire test is also not carried out on small pa	arts. These parts are to:	⊢N/A <</td
Mart	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	White white white white	N/A
when a	- comply with the needle-flame test of Annex E, or	ality miles miles white	N/A
NUTEK M	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	Tet aret wiret waret	N/A
كتابي المتأل	Glow-wire test not applicable to conditions as specified	at the set set	N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	and when the set	Р
- nu-	Test not applicable to conditions as specified	MULT MILL MAL MAR	N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0.2 A during normal operation, and	writes writes writes writes	Ρ
Ner wer	parts of non-metallic material, other than small parts, within a distance of 3 mm,	and watter white a	P 3
et where	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table)	P
WALTER	Glow-wire applied to an interposed shielding material, if relevant	wifet unifet whifet whife	N/A
whitek wh	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C	nitet whitet whitet whitet	N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	ster white white where we	Р
which .	parts of non-metallic material within a distance of 3 mm,	MALTER MALTER MALTER MAN	P
white s	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table)	P
NUTER WIN	- 750 °C, for connections carrying a current exceeding 0.2 A during normal operation,	stret white white white	P
1 . S	- 650 °C, for other connections	s at at at .	N/A
- Juli	Glow-wire applied to an interposed shielding material, if relevant	which which which whi	N/A
me	However, the glow-wire test of 750 °C or 650 °C as a parts of material fulfilling both or either of the followir		N/A

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Clause	Requirement – Test	Result – Remark	Verdict
W.L.	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	winter white white white	N/A
nne n	• 775 °C, for connections carrying a current exceeding 0.2 A during normal operation,	unite white white white	N/A
in The	675 °C, for other connections	Tet allet mile while w	N/A
et unite	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	the state state with said	N/A
NIEŁ	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation,	when the set with	N/A
20.	- 650 °C, for other connections	white white white	N/A
NUTE .NI	The glow-wire test is also not carried out on small p	arts. These parts are to:	N/A
TEX WALT	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	ret white white white w	N/A
* WALTER	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
dit.	- comply with the needle-flame test of Annex E, or	LA B	N/A
wer s	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	white white white white	N/A
	The consequential needle-flame test of Annex E ap encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curr parts of non-metallic material within a distance of 3 parts are those:	he centre of the connection zone ent-carrying connections, and	N/A
white ret	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or	whilet whilet while while	N/A
unt ul	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	and want want want	N/A
et white	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	and and and and and	N/A
MULTER	- small parts for which the needle-flame test of Annex E was applied, or	and which mare white	N/A
ulet of	- small parts for which a material classification of V-0 or V-1 was applied	ret ret used with	N/A
et _5	However, the consequential needle-flame test is no parts, including small parts, within the cylinder that		N/A
t set	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	white white white white	N/A
Jun-	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	WALT WALT WALL WAL	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – rest	Result – Remark	Veruic
oundrest of	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	while while while	N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	Let white white wh	N/A
\$ S	Test not applicable to conditions as specified :	PCB: V-0	P S
31	RESISTANCE TO RUSTING	WALL WILL WALL	P
WALTER	Relevant ferrous parts adequately protected against rusting	MUTER ANUTER WALTER	WILL P
15	Tests specified in part 2 when necessary	s it it	N/A
32	RADIATION, TOXICITY AND SIMILAR HAZARDS	Intre white white w	Р
ret whi	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	set while white whi	P
mult	Compliance is checked by the limits or tests specified in part 2, if relevant	white white white	N/A
A	ANNEX A (INFORMATIVE) ROUTINE TESTS	whitet whitet whitet	N/A
NUTER WA	Description of routine tests to be carried out by the manufacturer	at white wh	N/A
B- mir	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B	ATTERIES	N/A
WALTER	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	whitet whitet whitet	N/A
Set .	Three forms of construction covered:	at at at	Set State
Lifet wint	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	Tet while while whi	N/A
Whitek.	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery	water water water	N/A
ner winer	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit	ster while while whi	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
MILIE	And the second s	t state state with and	
j.t.	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2;	when when we are	N/A
nor w set wi	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate;	and not not and	N/A
	- if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2;	and and an and an	N/A
minet sur	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed	and and and and and	N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	set united united united	N/A
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	- and while while we	N/A
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage V (V) and polarity of the terminals	white white white white	N/A
NUTEX JUN	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	of white white	N/A
white	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or	AND AND AND AND A	N/A
d.	use only with <model designation=""> supply unit</model>	141. 141. 2.	N/A
7.6	Additional symbols	with all and and white	N/A
7.12	The instructions give information regarding charging	in a stat	N/A
et miret	Instructions for appliances incorporating batteries intended to be replaced by the user include required information	The service service service .	N/A
Jet	Details about how to remove batteries containing materials hazardous to the environment given	set set set s	N/A
WIT V	Instructions for appliances containing non-user-repla substance of the following:	aceable batteries state the	AND -
ne we	This appliance contains batteries that are only replaceable by skilled persons	white white and white	N/A
SE WINLS	Instructions for appliances containing non-replaceat substance of the following:	ble batteries shall state the	11 11
WALTE	This appliance contains batteries that are non-replaceable	Instate MALTER MAILER MA	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
WILTER WI	For appliances intending to be supplied from a detach purposes of recharging the battery, the type reference is stated along with the following:		Whitek
LIEK WAL	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	Tet anitet anitet anitet a	N/A
et white	If the symbol for detachable supply unit is used, its meaning is explained	t wiret miret amiret and	N/A
7.15	Markings placed on the part of the appliance connected to the supply mains	Tet whet white white	N/A
Set as	The type reference of the detachable supply unit is placed in close proximity to the symbol	at the test state	N/A
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment	et waitet waitet waitet wa	N/A
* WALTER	If the appliance can be operated without batteries, double or reinforced insulation required	whitek whitek whitek whit	N/A
11.7	The battery is charged for the period stated in the instructions or 24 h	wiret wiret waret while	N/A
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K)	at a white white v	N/A
ier white	If no limit specified, the temperature rise does not exceed 20 K; measured (K)	er untile worth worther wor	N/A
19.1	Appliances subjected to tests of 19.B101, 19.B102 and 19.B103	stret stret source source	N/A
19.10	Not applicable	the state	N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	NUTE WALT WALL WAL	N/A
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,	All water water water water	N/A
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction	whitet whitet whitet white	N/A
19.13	The battery does not rupture or ignite	LIFE INLIFE WALL WALL .	N/A
21.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength	et allet super super se	N/A
t minet	Part of the appliance incorporating the pins subjected 2, of IEC 60068-2-31, the number of falls being:	I to the free fall test, procedure	+
	- 100, the mass of part does not exceed 250 g	me me me	N/A

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Clause	Requirement – Test Re	esult – Remark	Verdict
NULLE VILLE	- 50, the mass of part exceeds 250 g	NUT WITE WITE WITE	N/A
NNLTEK N	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	and write white water	N/A
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible	A STA STAT WITH A	N/A
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts	white white white whi	N/A
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	NITE MALT MANY MARY	N/A
In the sul	For other parts, 30.2.2 applies	let allet walter and the	N/A
C	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		N/A
* white	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	white white white white	N/A
dit.	Test conditions as specified	s at at at	N/A
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	it's solution with the solution	N/A
nt wh text with	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	a south and a	N/A
-	Test conditions as specified	my my my m	N/A
EWNLTER	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST	Milet while while while	N/A
MULTER W	Needle-flame test carried out in accordance with IEC 60 modifications:	0695-11-5, with the following	WITE .
7,	Severities	LA A A	dit
y 14	The duration of application of the test flame is 30 s ± 1 s	which which when we	N/A
9 🔊	Test procedure	white white white white	the second
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1	LIFE WALTER WALTER WALTER	N/A
9.2	The first paragraph does not apply	et the wet with	N/A
dr _5	If possible, the flame is applied at least 10 mm from a corner	and sur in	N/A
9.3	The test is carried out on one specimen	mut wat was su	N/A
white	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test	marter water water water	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
44.5	Evaluation of test results	t when the second second	white
11		Nr vn vi di	
man al	The duration of burning not exceeding 30 s	and the second second	N/A
15 5	However, for printed circuit boards, the duration of burning not exceeding 15 s	a at the fit	N/A
F N	ANNEX F (NORMATIVE) CAPACITORS	white white white where we	N/A
White the second	Capacitors likely to be permanently subjected to the radio interference suppression or voltage dividing, co of IEC 60384-14, with the following modifications:		- <u>- 1</u> 00
1.5	Terms and definitions	white sure with the	<u>,</u>
1.5.3	Class X capacitors tested according to subclass X2	Tet Jet stret while	N/A
1.5.4	This subclause is applicable	In the second	N/A
1.6	Marking	Tet wifet white white w	5. - n
t st	Items a) and b) are applicable		N/A
3.4	Approval testing	at marter white white white	m.
3.4.3.2	Table II is applicable as described	s at at at	N/A
4.1	Visual examination and check of dimensions	white white white white	211-
Str. S	This subclause is applicable	the set set	N/A
4.2	Electrical tests	a far an a	N/A
4.2.1	This subclause is applicable	and the state of	N/A
4.2.5	This subclause is applicable	me m m	N/A
4.2.5.2	Only table IX is applicable	. Let allet mile white	N/A
dt.	Values for test A apply	sur sur st st	N/A
unter sur	However, for capacitors in heating appliances the values for test B or C apply	ATTER MALTER MAIL MAIL	N/A
4.12	Damp heat, steady state	ret the write white w	1211
+	This subclause is applicable	with the second second	N/A
when	Only insulation resistance and voltage proof are checked	water water water water	N/A
4.13	Impulse voltage	stat super multi- south	Mar
	This subclause is applicable	Mr. M. W. S. A.	N/A
4.14	Endurance	stift atter white white	n
Set and	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable	et set sitet mitet an	N/A
4.14.7	Only insulation resistance and voltage proof are checked	all all set of	N/A
24	Visual examination, no visible damage	me me me m	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
4.17	Passive flammability test	+ which market which wi	The Multi
+.17	This subclause is applicable		 N/A
4.18	Active flammability test	internation of the south	
+. 10	This subclause is applicable		 N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS	and which which which	P
	The following modifications to this standard are app transformers:	licable for safety isolating	
7 10 10	Marking and instructions	white white white wh	P
7.1	Transformers for specific use marked with:	a at at at	P
10 .50	- name, trademark or identification mark of the manufacturer or responsible vendor :	(see appended table)	Р
- Inc	- model or type reference	(see appended table)	1 P
17 5	Overload protection of transformers and associated	circuits	S PS
. Alt	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	which	N/A
22	Construction	white white white white	P
itret whit	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	at white white	P
29 🦽	Clearances, creepage distances and solid insulation		J P
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	water water water	Р
when w	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	white white white wh	V VP
ret white	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	net stat wind minate	P
WALTER W	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1	ANTER ANTER ANTER AN	P
H Set whi	ANNEX H (NORMATIVE) SWITCHES	NUTER MUTER WALTER WALTER	N/A
at de	Switches comply with the following clauses of IEC 6	1058-1, as modified:	det -
winest.	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	white white white	N/A
me	Before being tested, switches are operated 20 times without load	watter waite wait we	N/A

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Clause	Requirement – Test Result – Remark	Verdic
NUT	The The she she she she she was	white
3	Marking and documentation	
WALTER W	Switches are not required to be marked	N/A
inet whi	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	N/A
13	Mechanism	# -3
me	The tests may be carried out on a separate sample	N/A
15 5	Insulation resistance and dielectric strength	
15.1	Not applicable	N/A
15.2	Not applicable	N/A
15.3	Applicable for full disconnection and micro-disconnection	N/A
17 5	Endurance	- 30
4 WALTER	Compliance is checked on three separate appliances or switches	N/A
UNLITEK U	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	N/A
LIEK ANI	otherwise specified in 24.1.3 of the relevant part 2 of EN 60335	N/A
et ut	Switches for operation under no load and which can be operated only by a tool and	N/A
- Let	switches operated by hand that are interlocked so that they cannot be operated under load,	N/A
m	are not subjected to the tests	N/A
untiet ou	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	N/A
See ML	Sub-clauses 17.2.2 and 17.2.5.2 not applicable	N/A
* white	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in EN 60335-1	N/A
WALTER V	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of EN 60335-1 (K)	N/A
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies	mire v
iet white	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	N/A
WALTER	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	N/A

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N	10 - 10		the str
Clause	Requirement – Test	Result – Remark	Verdict

Whitek w	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE	N/A
stret and	The following modifications to this standard are applicable for motors having basic insulation that is inadequate for the rated voltage of the appliance:	LTEN-
8	Protection against access to live parts	L -
8.1	Metal parts of the motor are considered to be bare live parts	N/A
11_5	Heating	and the second
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	N/A
11.8	Temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material	N/A
16	Leakage current and electric strength	- <u>-</u>
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test	N/A
19	Abnormal operation	24.
19.1	The tests of 19.7 to 19.9 not carried out	Ń/A
19.I.101	Appliance operated at rated voltage with each of the following fault conditions:	N/A
ier white	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	N/A
+ Ster	- short circuit of each diode of the rectifier	N/A
-m	- open circuit of the supply to the motor	N/A
uniter w	- open circuit of any parallel resistor, the motor being in operation	N/A
LIEK WAL	Only one fault simulated at a time, the tests carried out consecutively	N/A
22 🦽	Construction	* -3
22.1.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation	N/A
nitex wn	Compliance checked by the tests specified for double and reinforced insulation	N/A
Jet shirt	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS	N/A
t stet	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:	- INTE
5.7	Climatic sequence	<u></u>

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Clause	Requirement – Test	Result – Remark	Verdict
WILL'	When production samples are used, three samples of the printed circuit board are tested		N/A
5.7.1	Cold	mile while while whi	N/A
St. S	The test is carried out at -25°C	s & to the	N/A
5.7.3	Rapid change of temperature	its which which which	N/A
et	Severity 1 is specified	t at at at	N/A
5.9	Additional tests	me me me	
MALTE	This subclause is not applicable	att and when the	N/A
ĸ	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES	When you are stat stat	P
10 S	The information on overvoltage categories is extracted from IEC 60664-1	and what we are the	Р
y sur	Overvoltage category is a numeral defining a transient overvoltage condition	and which which which a	Р
whit	Equipment of overvoltage category IV is for use at the origin of the installation	WALTER WALTE WALT WA	N/A
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements	white service white service	N/A
iet white	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Category II	N P
WALTER	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	services services services servi	N/A
NALIE MAL	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level	Attrat santifet santifet santifet	N/A
L. WALTER	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	ANCES AND CREEPAGE	5 P
WALTER	Sequences for the determination of clearances and creepage distances	suret sources sources sources	P
M. et N ^L SN	ANNEX M (NORMATIVE) POLLUTION DEGREE	thet white white white	NUT P
Jet mer	The information on pollution degrees is extracted from IEC 60664-1	at not not super	n Set P
A	Pollution	me m n	
white	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	white white white wh	Р

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Clause	Requirement – Test	Result – Remark	Verdict
Clause		Result – Remark	veruici
WILL LEX	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	which which which which	Р
nr n	Minimum clearances specified where pollution may be present in the microenvironment	antife which which which	s ^h ́Р
in m	Degrees of pollution in the microenvironment	rist when when white w	-m
et antie	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:		ex
WALTER.	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	where white white white	N/A
miret w	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Pollution degree 2	P
whitek	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	SUNTER SUNTER SUNTER SUNT	N/A
whiter a	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	WALTER WALTER WALTER WALTER	N/A
N or	ANNEX N (NORMATIVE) PROOF TRACKING TEST	tet a funite white a	N/A
IEL WALT	The proof tracking test is carried out in accordance w modifications:	vith IEC 60112 with the following	ie vini
7	Test apparatus	- A A 5t 5t	
7.3	Test solutions	white white where white	<u></u>
STER .	Test solution A is used	at let set set	N/A
10	Determination of proof tracking index (PTI)	ne me me	
10.1	Procedure	the tit state attains	in - m
1 1	The proof voltage is 100V, 175V, 400V or 600V :	- In - In - I	N/A
MALL	The test is carried out on five specimens	t allet outer would would	N/A
whitek	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	source source source source	N/A
10.2	Report	at at set set set	15 ⁶² .
et 5	The report stating if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	and all all all	N/A
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF	CLAUSE 30	Р
m	Description of tests for determination of resistance to heat and fire	white white white where	≪ [™] P

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V	-n $-n$ $-$		and the
Clause	Requirement – Test	Result – Remark	Verdict

P Street	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES	N/A
inet wh	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332	NITEN W
et would	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductor	et - -
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C	N/A
7.1	The appliance marked with symbol IEC 60417-6332	N/A
7.12	The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA	N/A
whitek.	The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries	N/A
n w	If symbol IEC 60417-6332 is used, its meaning is explained	N/A
11.8	The values of Table 3 are reduced by 15 K	N/A
13.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	N/A
15.3	The value of t is 37 °C	N/A
16.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	N/A
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	N/A
Q _{ND} ECC	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS	P.C
Str.	Description of tests for appliances incorporating electronic circuits	P
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION	N/A
nt vi Set vint	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex	N/A
R.1 🦽	Programmable electronic circuits using software	5 6

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Clause	Requirement – Test	Result – Remark	Verdict
S. L.S.	with white white white we	- the star star is	Ser and
whitek w	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard	white white white white	N/A
R.2	Requirements for the architecture		n -n
WALTER V	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety-related segments of the software	A MALTER MALTER MALTER MAL	N/A
R.2.1.1	Programmable electronic circuits requiring software i control the fault/error conditions specified in table R.2 structures:		unit - v
- white	- single channel with periodic self-test and monitoring	ter white white white a	N/A
winter	- dual channel (homogenous) with comparison	t stat with which wh	N/A
dit.	- dual channel (diverse) with comparison		N/A
	Programmable electronic circuits requiring software i control the fault/error conditions specified in table R. structures:	incorporating measures to 1 have one of the following	un <u>-</u>
e. 20	- single channel with functional test	a curi sul	N/A
let nute	- single channel with periodic self-test	and the states of	N/A
	- dual channel without comparison	mer mer mer	N/A
R.2.2	Measures to control faults/errors	the state street with	14
R.2.2.1	When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area	MUTER WAITER WAITER WAITER	N/A
R.2.2.2	Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison	The while while while w	N/A
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths	white white white white	N/A

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Clause	Requirement – Test	Result – Remark	Verdict		
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate	Whitek whitek whitek whitek	N/A		
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired	at white white white whi	N/A		
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	NITEX WILLEX WALTER WALTER	N/A		
R.2.2.7	Labels used for memory locations are unique	et uset whet white an	N/A		
R.2.2.8	The software is protected from user alteration of safety-related segments and data	t set set set and	N/A		
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	white white white white	N/A		
R.3	Measures to avoid errors	St. St. At			
R.3.1	General	the superior superior of	L M		
	For programmable electronic circuits with functions r measures to control the fault/error conditions specific following measures to avoid systematic fault in the s	ed in table R.1 or R.2, the	SEX		
MALIEK M	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1	whitek whitek whitek white	N/A		
R.3.2	Specification	at at at at	5 ⁰⁺		
R.3.2.1	Software safety requirements:	in min we we we	N/A		
er white	The specification of the software safety requirements includes the descriptions listed	t antifet wattet waitet wait	N/A		
R.3.2.2	Software architecture	the state of the s	_0+		

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Clause Requirement Test						
Clause	Requirement – Test	Result – Remark	Verdic			
R.3.2.2.1	The specification of the software architecture includes the aspects listed	WALLER WALL WALL	N/A			
	- techniques and measures to control software faults/errors (refer to R.2.2);	MUTER WALTER WAITE V	min white			
	- interactions between hardware and software;	the state what wi	ren white w			
	- partitioning into modules and their allocation to the specified safety functions;	t with you want	* nu et anti			
	- hierarchy and call structure of the modules (control flow);	which which which	THE STAR			
	- interrupt handling;	intres white white	mer mer			
	- data flow and restrictions on data access;	A It It	let set			
	- architecture and storage of data;	MITE WALTE WALL W	er with a			
	- time-based dependencies of sequences and data	1 1 1 1	et set is			
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	and and and	N/A			
R.3.2.3	Module design and coding	me m m	1 70			
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	WALTER WALTER WALTER	N/A			
NITE WALL	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	at a funite wa	N/A			
R.3.2.3.2	Software code is structured	an white white white	N/A			
R.3.2.3.3	Coded software is validated against the module specification by static analysis	and what which	N/A			
NUTEX IN	The module specification is validated against the architecture specification by static analysis	at set set	N/A			
R.3.3.3	Software validation	ne me m n				
et ret	The software is validated with reference to the requirements of the software safety requirements specification	and white white whi	N/A			
m	Compliance is checked by simulation of:	and white white white	N/A			
Jet-	- input signals present during normal operation	A do to	N/A			
m. n	- anticipated occurrences	white while white	• N/A			
de la	- undesired conditions requiring system action	i de de	N/A			

TABLE R.1 ° – GENERAL FAULT/ERROR CONDITIONS						
Component	Fault/error	Acceptable measures ^{b, c}	Definitions	reference	reference	Verdict

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Verdict

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Clause Requirement – Test

Result – Remark

	т	ABLE R.1 ° – GENERAL FAUL	T/ERROR CO	NDITIONS		
Component ^a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
1 CPU	20. 1	, at at at a	Stan States	NOT MAL	m. m	N/A
1.1 Registers	Stuck at	Functional test, or	H.2.16.5	let with	INLIGK MALT	
	1 15	periodic self-test using either:	H.2.16.6	24	4	
	a water	- static memory test, or	H.2.19.6	- 5 ⁶⁴ .	Set Mile	
	+ white a	 word protection with single bit redundancy 	H.2.19.8.2	when w	t st	
1.2 VOID	20. 2	a at at the	Ster Miles	mer me	me a	N/A
1.3 Stuck at Programme counter	Stuck at	Functional test, or Periodic self-test, or	H.2.16.5 H.2.16.6	Liet white	whitek whi	N/A
et intret a	strek white	Independent time-slot monitoring, or	H.2.18.10.	of set	with mite	
	et whitet	Logical monitoring of the programme sequence	H.2.18.10. 2	white wh	Tet whitet	
2 , , , , ,	No interrupt	Functional test, or	H.2.16.5		L At	N/A
Interrupt handling and execution	or too frequent interrupt	time-slot monitoring	H.2.18.10. 4	antir Start Shirt	white w	
	1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 - 1420 -				2. 2.	

2 Interrupt handling and execution	No interrupt or too frequent interrupt	Functional test, or time-slot monitoring	H.2.16.5 H.2.18.10. 4	MALLEY MALTER WA	N/A
3 Clock	Wrong frequency (for quartz synchroniz ed clock: harmonics/ sub-harmo nics only)	Frequency monitoring, or time slot monitoring	H.2.18.10. 1 H.2.18.10. 4	NUTER AND EX AND THE	N/A
4. Memory 4.1 Invariable memory	All single bit faults	Periodic modified checksum, or multiple checksum, or word protection with single bit redundancy	H.2.19.3.1 H.2.19.3.2 H.2.19.8.2	antifet antifet white	N/A
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2	et white whitet	N/A

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Verdict

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Clause Requirement – Test

Result – Remark

Component ^a	Fault/error	ABLE R.1 ^e – GENERAL FAUL Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2	NA WALCH	White white	N/A
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	where where	et unifet	N/A
5.1 VOID	15 1	et with note which wh	24		.t.	N/A
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	LIET WALTE	white wh	N/A
6 External	Hamming distance 3	Word protection with multi-bit redundancy, or	H.2.19.8.1	which a	n m	N/A
communicat ion	- sur-	CRC – single work, or	H.2.19.4.1	NUTER UN	St WALL	me
		Transfer redundancy, or	H.2.18.2.2	30 3	A	at -
NUT WIT	124 1 12	Protocol test	H.2.18.14	11/5	S. Strand	in m
6.1 VOID		8 11 July 1		- Ch	2	N/A
6.2 VOID	-4 in				50 .5	N/A
6.3 Timing	Wrong point in time Wrong sequence	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or comparison of redundant communication channels by either: - reciprocal comparison - independent hardware comparator Logical monitoring, or time-slot monitoring, or Scheduled transmission	H.2.18.10. 4 H.2.18.18 H.2.18.10. 3 H.2.18.15 H.2.18.3 H.2.18.10. 2 H.2.18.10. 4 H.2.18.10.	WALTER WALTER	SALEX MALIEX	N/A
7 Input/output periphery	Fault conditions specified in	Plausibility check	H.2.18.13	A JULEY	white whi	N/A
7.1 VOID	19.11.2	the state of the	and and	all a	54°	N/A

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Verdict

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Requirement - Test Clause

Result – Remark

	a de	ABLE R.1 ° – GENERAL FAUL	I/ERRUR CO	NDITIONS		
Component ^a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
7.2 Analog I/O	10 5	t writet wiret weitet we	The MALTE W	ner when	we w	N/A
7.2.1 A/D and D/A-convert er	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	NUTER .	unite unit	
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	WALTER WALT	et whitet	N/A
8 VOID	.55 .5	and white when we		a d	dt .	</td
9 Custom chips ^d e.g. ASIC, GAL, gate array	Any output outside the static and dynamic functional specificatio n	Periodic self-test	H.2.16.6	Whitek	NUTER WALTER	N/A

^{a)} For fault/error assessment, some components are divided into their sub-functions.

^{b)} For each sub-function in the table, the Table R.2 measure will cover the software fault/error.

^{c)} Where more than one measure is given for a sub-function, these are alternatives.
 ^{d)} To be divided as necessary by the manufacturer into sub-functions.

e) Table R.1 is applied according to the requirements of R.1 to R.2.2.9 inclusive.

S AN	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT AR NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE	E N/A
er weiter	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	N/A
Tet	rechargeable batteries (secondary batteries) that are not recharged in the appliance	N/A
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	N/A
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions	N/A
5.S.102	Appliances are tested as motor-operated appliances.	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
NI LIV	and when all all a	at the star	LIN SAL
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless:	when when we we	N/A
me n	the polarity is irrelevant	mill antit whit whit	N/A
the s	Appliances also marked with:	a at at al	- 50t
ir yn ch de	 name, trade mark or identification mark of the manufacturer or responsible vendor 	at whit whit whit	N/A
m	- model or type reference:	at intre- intre units	N/A
Whitek	 – IP number according to degree of protection against ingress of water, other than IPX0	Tet wiret miret w	N/A
A	- type reference of battery or batteries:	m m m	N/A
17 ¹² - 17	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	NUTER WALTER WALTER WALT	N/A
y white	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	t stat singt white	N/A
7.6	Additional symbols	me m m	N/A
7.12	The instructions contain the following, as applicable:	white white white wh	se me
d.	- the types of batteries that may be used:		N/A
in m	- how to remove and insert the batteries	ist white white	N/A
EX MALT	 non-rechargeable batteries are not to be recharged 	a in the state	N/A
. STER	 rechargeable batteries are to be removed from the appliance before being charged 	when the test	N/A
Jet .	 different types of batteries or new and used batteries are not to be mixed 	sont whe whe we	N/A
ne n	- batteries are to be inserted with the correct polarity	nere which which whe	N/A
isek whi	 – exhausted batteries are to be removed from the appliance and safely disposed of 	and mark and senter	N/A
et white	 if the appliance is to be stored unused for a long period, the batteries are removed 	t with with which	N/A
dt.	- the supply terminals are not to be short-circuited	m m t	N/A
11.5	Appliances are supplied with the most unfavourable	supply voltage between	a mar
miret w	 – 0.55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 	stret whitet whitet white	N/A
	 – 0.75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only 	et mint whitet whitet	N/A
whitek	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	Multer watter aniter w	N/A

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100		
200	IEC.	60335-1

Clause	Requirement – Test	Result – Remark	Verdict
	all when all and all all	- John John Marken John	
19.1	The tests are carried out with the battery fully charged unless otherwise specified	when with which the	N/A
19.13 📣	The battery does not rupture or ignite	mile mail and whe	N/A
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless	and white white white w	N/A
WILL THE	such a connection is unlikely to occur due to the construction of the appliance	water water water	N/A
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction	WALTER WAITER WALTER WALTER	N/A
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment	fet white white white wh	N/A
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance	white white white whit	N/A
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery	White white white white	N/A
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals	e white white white whi	N/A
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless	and the tree with	N/A
5 ⁴ .5	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	and what we want the	N/A
et set	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	at white white where we	N/A
T Junit	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	ATERIALS	N/A
	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the	WALTER WALTER WALTER WALTER	N/A
Set Mure	Does not apply to glass, ceramic and similar materials	et the wet and	N/A
. A	Tested as specified in ISO 4892-1 and ISO 4892-2, v	with the following modifications:	t - 3
WALT	Modifications to ISO 4892-1:	t stat what will will	11 ¹²
5.1	Light source	The man and a	

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IEC 60335-1

Clause	Requirement – Test	Result – Remark	Verdict
5.1.6	The UV-C emitter is a low pressure mercury lamp	and the shift	N/A
S. T.O	with a quartz envelope having a continuous spectral irradiance of 10 W/m2 at 254 nm	Tet what whet	
	Subclause 5.1.6.1 and Table 1 are not applicable	no m m s	N/A
5.2	Temperature	Tet when white white	r with -w
5.2.4	The black-panel temperature shall be 63 $^{\circ}C \pm 3 ^{\circ}C$	Star I and a star	N/A
5.3	Humidity and wetting	at intre- white white	m m
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	the street whilet	N/A
9	Test report	the second	the state
ne an	This clause is not applicable	NUTER INLIE WALT W	N/A
15 1	Modifications to ISO 4892-2:		st 15-
7 -	Procedure	The wait wait wat	mm.
7:1 了	General	s at at at	5 ^t -5 ^t
-m	At least three test specimens are tested	white white white	N/A
500	Ten samples of internal wiring is tested	at at at	N/A
7.2	Mounting the test specimens		
NUTER WA	The specimens are attached to the specimen holders such that they are not subject to any stress	at any and any	N/A
7.3	Exposure		
-m-	Apparatus prepared as specified	white white white	N/A
WALTER	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h	watter water watter	N/A
7.4	Measurement of radiant exposure	the street out of	Ner Men-
inet whi	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	aret white white whi	N/A
7.5	Determination of changes in properties after exposu	re 🔒 🦽 🖉	5 ⁰⁺ -5
MALTER	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	white white white	N/A
auter a	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	at the the	N/A
8	Exposure report	up mu mu m	
5 5	This clause is not applicable	8 18 18 IS	N/A

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Verdict

IEC60335_1X ATTACHMENT

ATTACHMENT TO TEST REPORT

Requirement – Test Clause

Result

t –	Remar	K	2

Remark	

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	1.00	

		ATTACIMENT TO TECT KEI OKT	
		IEC 60335-1:2010 + A1:2013 + A2:2016	
	EUROPEAN G	ROUP DIFFERENCES AND NATIONAL DIF	FERENCES
	Hous	ehold and similar electrical appliances – Safe	ty – set on the set of
* *	of set set is	Part 1: GENERAL REQUIREMENTS	the state of
Differen	ces according to	EN 60335-1:2012 + A11:2014 + A13:201 A2:2019 + A15:2021 EN 62233:2008	7 + A1:2019 + A14:2019 +
TRF tem	plate used	IECEE OD-2020-F2:2020, Ed. 1.1	when we set
Attachm	ent Form No ent Originator Attachment	a st st ster with mile	watter watter watter w
	ht © 2022 IEC System , Geneva, Switzerland.	for Conformity Testing and Certification o All rights reserved.	f Electrical Equipment
m		ON MODIFICATIONS (EN)	a war war war
6.1	Delete "class 0" and	l "class 01"	N/A
7.1	Single-phase applia supply mains: 230	nces to be connected to the / covered	P
. we	Multi-phase applian supply mains: 400 V	ces to be connected to the / covered	N/A
7.12	The instructions inc	lude the substance of the following:	LIFE MILTE MALTE MAL
untret white	years and above ar physical, sensory o experience and kno supervision or instr	be used by children aged from 8 d persons with reduced mental capabilities or lack of wledge if they have been given action concerning use of the way and understand the hazards	A ANTER MATER A
with	- children shall not	blay with the appliance	nut only P
MALIEK	- cleaning and user by children without	maintenance shall not be made supervision	The state state Pol
3.1.1	Also test probe 18	of EN 61032 is applied	N/A
and a	The appliance bein during the test, exc	g in every possible position ept that	N/A
ier whi	appliances normally mass exceeding 40	v used on the floor and having a kg are not tilted	N/A
		bbe in the straight position is /hen probe 18 is used	N/A

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IEC60335_1X ATTACHMENT			
Clause	Requirement – Test Result – Remark	Verdic	
WILL'S	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and	N/A	
	parts intended to be removed for user maintenance are also not removed	N/A	
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action	N/A	
8.2	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1	N/A	
Tet whit	Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation	N/A	
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling	N/A	
20.2	For appliances having hazardous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use	N/A	
	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed	N/A	
une m	When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled	N/A	
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers	N/A	
22.17	The requirement is not applicable to built-in appliances	N/A	
22.44	An appliance is child-appealing if one of the following criteria is present:	et set	
n w	- appliance decorated using faces, cartoon like characters, or similar images	N/A	
whit	- appliance using shapes representing animals, characters, persons or scale models	N/A	
NIT.	An appliance is child-appealing if more than one of the following criteria are pre	sent:	

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IEC60335_1X ATTACHMENT

Clause	Requirement – Test Result – F	Remark Verdict
White The	- using non-functional light (functional light is e.g. illumination of an object or area, signal indicating	N/A
in in	status of an appliance)	with more more and
dt .	- using non-functional sound (e.g. music)	N/A
- m	- using non-functional movement	N/A
	If the appliance is child-appealing, has a mass less than 4 kg of normally intended for use at a height less than 850 mm, the follo be met:	
white	- surface temperature rise requirements not exceeded	N/A
Jet a	- hazardous moving parts not accessible	N/A
n a	- live parts not accessible	N/A
Set out	- liquid temperature requirement not exceeded,	N/A
+feb	unless for vessels in which two independent and sequential actions are needed to access the liquid	N/A
with	- the requirement of 22.12 is applicable for all accessible parts of the appliance	N/A
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply	and an P
	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard	N/A
NUTER	Relays are tested as part of the appliance according to this standard	N/A
tt	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1	N/A
net mi	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance	P
	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard	P
whitek wh	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components	north white white where
ret which	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard	MALTER WALTER WATER P
	Components that have been tested and shown to comply with requirements in the EN standard for the relevant component ne provided that:	

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Clause	Requirement – Test	Result – Remark	Verdict
WILL'LL	- the severity specified in the component standard is not less than the severity specified in 30.2, and	while while white	N/A
nr n x	- the test report for the component states the values of $t_{\rm e}$ and $t_{\rm i}$ acc. to EN 60695-2-11	White white white w	N/A
ine whi	If the above two conditions are not satisfied, the component is tested as part of the appliance	Set white white wh	N/A
et white	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard	et wonitet wonitet wonite	N/A
MAL .	Unless components have been tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	WALTER WALTER WALTER	unit united
set whist	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9	set whilet whilet whi	N/A
whit	Components that have not been tested and found to comply with the relevant EN standard, and	WALTE WALT WAL	N/A
went a	components that are not marked or not used in accordance with their marking,	watter water water	N/A
ine whi	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard	and a summer way	N/A
WALTER W	Lamp-holders and starter-holders that have not been tested and found to comply with the relevant EN standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance	WALTER WALTER WALTER	N/A
Tet whi	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	Tex white white whi	N/A
surfict an	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	WALTER WALTER WALTER	N/A
TEX WALT	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or	et portret portret port	N/A
white	with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if	- nifet inifet inifet	unti uPi

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Ster North	IEC60335_1X ATTACHM	ENT A	et intre int
Clause	Requirement – Test	Result – Remark	Verdict
- white white	direct supply to these parts from the supply mains gives rise to a hazard	White white white	Р
we when	For plugs used in CENELEC countries Annex ZH applies	white white white	N/A
24.Z1	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1	Tet white white wh	N/A
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH	White white white	N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or	WALTER WALTER WALTER	N/A
me m	when they are liable to be exposed to significant amount of ultraviolet radiation	NUTE WALTE WALT W	N/A
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard	The write write write	N/A
ant.	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH	white white white	N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position,	source source sources	N/A
ret antil	unless they are held in place near the terminals independently of the solder		N/A
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2	whitet whitet whitet	N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233	MITER WALTER WALTER &	n ¹ n ¹ P
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified	Tet wontret wontret won	N/A
when	The duration of any of the tests is as specified in 19.7	A WALLEY WALLEY WALLY	N/A
74	ANNEX ZA (NORMATIVE)	WITTER STATES	P
ZA	SPECIAL NÀTIONAL CONDITIONS (EN)	with united united w	STER MUTER W
1 . S	Denmark, Sweden, Norway and Finland	a at the to	et 50
7.12.8	The maximum inlet water pressure is at least 1,0 MPa	WAY WAY	N/A

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

Norway

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Clause	Requirement – Test	Result – Remark	Verdic
	partition wat wat we way	- at the star st	- ALLEY
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring	whit white we want	N/A
m. m	and the state of the state	MUTER MALTE MALE WAL	sn.
1 5	Norway	s at at at	Str.
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system	ere white white white whi	N/A
. Set	a liter and a superior while while and a set	at let let se	. 5 ⁴⁰
20. 1	Denmark	white white white with	200
22.47	The maximum inlet water pressure is at least 1,0 MPa	NITER WITER WAITER WAITER	N/A
St 5	A STER MUTTER MUTTERMUTER WATER AND A	s at at at	det .
m	Ireland, United Kingdom and Cyprus	rea white white whe wh	20
25.8	In the table, the line >10 A and ≤16 A is replaced wit	h: , , , , , , , , , , , , , , , , , , ,	* <u>-</u> 5%
- zur	> 10 and \leq 13 1,25 (1,0) ^b	white white white white	N/A
NI-LIEK W	> 13 and \leq 16 1,5 (1,0) ^b	set set site site	N/A
<u> </u>	and the state state with state	when the the second	
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS	et antie water w	P
et de			Set and
	Ireland	wer we we we	
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances	white white white white	N/A
iner white	United Kingdom	TEX UNITEX UNITEX UNITEX UN	-TER
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.	A WALTER WALTER WALTER WALT	N/A
Wr W	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes	white white white white	N/A
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL CORRESPONDING EUROPEAN PUBLICATIONS	PUBLICATIONS WITH THEIR	P
WALTER	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document	watter watter watter watter	Р

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Clause	Requirement – Test	Result – Remark	Verdict

ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS	ν ^{ης} Ρ΄
L'EX W	List of IEC and CENELEC code designations for flexible cords	Stop P
*	at the test street while while while and the	×.
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE	N/A
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative	N/A
4	Model or type reference	N/A
The west	Serial number, if any	N/A
+ 1	Production year	N/A
me	Designation of the appliance	N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely	N/A
	The instructions contain at least the following information:	Æ
NUTE WI	- the business name and full address of the manufacturer and, where applicable, his authorized representative	N/A
when the	- model or type reference of the appliance as marked on the appliance itself, except for the serial number	N/A
WALTER V	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers	N/A
LTEX	- the general description of the appliance, when needed due to the complexity of the appliance	N/A
et white	- specific precautions required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving	N/A
	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance	N/A
NUTET W	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance	N/A
t sunt	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
Claubo			
antifict an	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance	white white white white	N/A
et aniret	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand	A WITCH WALLER WALLER W	N/A
NUTEX SUN	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	MALE WALLEY WALLEY WALLEY	N/A
7.12.ZE1	If needed for specific appliances, the following inform	nation to be given:	10- TU
A WALLEY	- on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts	Whitek whitek whitek white	N/A
et white	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	at and another survey and	N/A
whitek	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided	white white white wh	N/A
untilet un	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance	Milet Whilet While while	N/A
at summer	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator	the survey survey and the	N/A
NLIEK	- on airborne noise emissions, determined and decla relevant Part 2, which includes:	ared in accordance with the	ex
NUTER WIN	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);	and white and a	N/A
Set Multe	- where this level does not exceed 70 dB(A), this fact is indicated	at the trat what	N/A
whitek	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa)	white white white wh	N/A

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IEC60335_1X ATTACHMENT		
Clause	Requirement – Test Result – Remark	Verdict
whitek wh	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A)	N/A
7.12.ZE2	The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts	N/A
Whitek a	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug is such that an operator can check from any of the points to which he has access that the plug remains removed	N/A
minet and	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided	N/A
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or	N/A
	a manual operation is required to restart it	N/A
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards	N/A
with the set	When guards are used, they are fixed guards, interlocking movable guards or protective devices	N/A
Mart.	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible fitted with:	win t
NALIT MA	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and	N/A
et miret	- adjustable guards restricting access to those sections of the moving parts where access is necessary	N/A
5 Et	Interlocking movable guards used where frequent access is required	N/A
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	N/A
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability	N/A
St.	The distance between the seat and the control devices capable of being adapted to the operator	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
010000			V OI GIO
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function	white white white white	N/A
er whi	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function	thet white white white a	N/A
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	white white white white	N/A
ntret our	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	MITEX WALTER WALTER WALTER	N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or	set while while while w	N/A
WALT	so designed that they can be fitted with such attachments, or	White white white whi	N/A
WALTER WAL	be shaped in such a way that standard lifting gear can easily be used	milet milet white white	N/A
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	and white white v	N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools	while while while wh	N/A
whitek wh	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal	White white white white	N/A
LIEK WALT	Where possible, guards are incapable of remaining in place without their fixings	and white marks white a	N/A
et white	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	* WALTER WALTER WALTER WALT	N/A
Set	Movable guards are interlocked	a de las de	N/A
ANN ANN	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed	white white white	N/A
	Where it is possible for an operator to reach the dan hazardous appliance functions has ceased, movable locking device in addition to an interlocking device th	guards associated with a guard	ster - vin Vin
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	white white white white	N/A
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	IEC60335_1X ATTACHMI		
Clause	Requirement – Test	Result – Remark	Verdict
WITCH AN	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	White white white white	N/A
Set al	Interlocking movable guards remain attached to the appliance when open, and	at set set set	N/A
et white	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action	at a state with a sub-	N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions	white white white	N/A
inter our	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2	NUT AND AND AND AND	N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time	white white white shite	N/A
when w	After these tests the interlock system is fit for further use	unite suntil wait wat	N/A
22.ZE.7	Adjustable guards restricting access to areas of the for the work are:	moving parts strictly necessary	··· ···
ier white	- adjustable manually or automatically, depending on the type of work involved, and	AND THE MALINE MALITER WAS	N/A
t Set	- readily adjustable without the use of tools	at at at at	N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart	Sand sand san san sa	N/A
et nuret	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred	and an and and and and	N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	and and not ret	N/A
201 2	Such isolators are clearly identified, and	white white white white	N/A
INLIEK WIN	they are capable of being locked if reconnection endanger persons	safet maret smaret senaret	N/A
ret white	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons	et while while while wh	N/A
100	at at a state	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ar-

1.1 C/ C/

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IEC60335_1X ATTACHMENT

Clause Requirement – Test	Result – Remark	Verdict
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ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD	P
ister whi	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)	LITER W
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES	N/A
Juntity V	The following modifications to this standard apply to appliances having UV emitters	N/A
nite w	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109	N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source	N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant	N/A
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries	N/A
	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:	
INLIEK W	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4	N/A
JEK WAL	- for class II appliances, standard sheet EU5, EU6 or EU7	N/A
* white	There are exemptions or differences in certain CENELEC countries	N/A
ZI	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A	P Straight
iet annin	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1	P
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96} AIMED TO BE COVERED	P

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Clause	Requirement – Test	Result – Remark	Verdic
WIT THEY	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU	WITT WITT WITT WITT	Р
uni v Litet vni	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations	and and and and and	W P
white	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives	White white white w	P
In .	the state of the sure white	which which where which	-20.
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN ST ESSENTIAL REQUIREMENTS OF DIRECTIVE 200 COVERED		Р
	This standard provides one means of conforming to	er mit wer wer.	S P
	essential requirements of EU Directive 2006/42/EC	1 1 A A	10 5
whitek w	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations	MUTER INTER WALFER WALF	- P
SUNTER S	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA	MUTER INTER WALFER WALF	P
SUNTER S	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulationsCompliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety	MUTER INTER WALFER WALF	et synthese
SALIER A	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulationsCompliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety	MUTER INTER WALFER WALF	et synthese
WALTER WALTER	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements	antifet antifet antifet antif at an antifet antifet antifet antifet antifet antifet antifet antifet antifet antifet antifet	P P P

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10.1	TABLE: Pov	TABLE: Power input deviation						
Input dev	viation of/at:	P rated (W)	P measured (W)	ΔP (%)	Required ΔP (%)	Remark		
- 55	5°	an me m		di Ar	1 - 15	10 <u>-</u> 50		

Supplementary information:

10.2	TABLE: Curre	ent deviation				Р
Current de	viation of/at:	I rated (A)	I measured (A)	ΔI (%)	Required ΔI (%)	Remark
100V/50Hz	NUTE MULT V	1.0	0.742	-25.8	+20	GTM96300-36
100V/60Hz	t it	1.0	0.715	-28.5	+20	36-6.0-T3
240V/50Hz	in mer we	1.0	0.297	-70.3	+20	Output: 30VDC, 1.2A
240V/60Hz	+ 1+ 1	1.0	0.292	-70.8	+20	
100V/50Hz	mer mer	1.0	0.766	-33.4	+20	GTM96300-36
100V/60Hz		1.0	0.736	-36.4	+20	19.5-1.5-T3
240V/50Hz	m m.	1.0	0.307	-69.3	+20	Output: 18VDC, 2A
240V/60Hz	STER NUTER AN	1.0	0.301	-69.9	+20	Jet Jet
100V/50Hz	the state	1.0	0.763	-23.7	+20	GTM96300-36
100V/60Hz	the start	1.0	0.739	-26.1	+20	14.5-2.5-T2 Output:
240V/50Hz		1.0	0.308	-69.2	+20	12VDC, 3A
240V/60Hz	-ne -ne	1.0	0.301	-69.9	+20	- Intreasonate
100V/50Hz	1 15	1.0	0.504	-49.6	+20	GTM96300-23
100V/60Hz	mer mer	1.0	0.488	<u></u> -51.2	+20	07.5-2.5-T3
240V/50Hz	at at a	1.0	0.212	-78.8	+20	Output: 5VDC, 4.5A
240V/60Hz	my my m	1.0	0.208	-79.2	+20	the write w
Supplemen	tary information	and white white	m. m.	24	4	at at a

11.8 🦽	TABLE: Heating tes	st, thermocouples	s w			10 15	* P_3		
m	Test voltage (V)		s	See below		me me	- m		
Set	Ambient (°C)		S	See below	dt.	Let Set			
Thermocouple locations		Max. temp	perature	e rise measure	ed, ΔT (K)	Max. temp			
		94V/6	60Hz	254.4V	254.4V/50Hz		ΔΤ (Κ)		
		Label up	Label down		Label down				
Applianc	e inlet	21.9	22.2	13.0	13.0	45	- 24		
MOV1 bo	ody and and	27.1	27.8	13.9	14.2	T85-40	=45		
Choke w	inding (LF1)	83.5	83.8	30.8	31.1	85, Class	s 130		

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10.0. -10

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X capacitor (CX1)	42.2	42.5	20.3	20.5	T110-40=70
C1 body	60.5	60.8	35.0	35.1	T105-40=65
PCB near BD1	67.4	67.9	48.6	48.9	T130-40=90
U3 body	57.0	58.4	52.1	52.3	T100-40=60
CY1 body	47.7	50.4	39.5	39.6	T125-40=85
T1 coil	64.2	64.4	58.6	58.9	85, Class 130
T1 core	59.7	59.9	54.5	54.0	85, Class 130
C4 body	47.6	48.2	43.1	43.3	T105-40=65
Output wire	28.1	28.4	24.8	25.0	T80-40=40
Enclosure inside above T1	36.3	36.6	27.7	25.8	For cl.30.1
Enclosure inside under T1	36.5	38.0	33.4	33.6	For cl.30.1
Enclosure outside above T1	25.8	27.0	21.3	20.2	74-15=59
Enclosure outside under T1	33.2	34.9	23.5	23.5	74-15=59
Test floor	10.0	10.8	6.1	6.3	65-15=50
Ambient	22.7°C	22.6°C	23.4°C	23.1°C	we me me
and the state of the state	St	n. n.		•	1 1 1

Supplementary information:

Tested with model GTM96300-3636-6.0-T3

11.8	TABLE: Heating test, thermocouples							
et _5	Test voltage (V)	Test voltage (V) See below						
	Ambient (°C)		See	e below	m	m n	<u> </u>	
Thermocouple locations		Max. temp	perature ri	se measure	ed, ΔT (K)	Max. tempera		
		94V/6	60Hz 📣	254.4V	/50Hz	rise limit, ∆T	(K)	
		Label up	Label down	Label up	Label down			
Applianc	e inlet	20.5	21.0	13.4	<u></u>	45	h.	
MOV1 bo	ody	27.7	31.5	17.8	17.9	T85-40=4	5	
Choke w	inding (LF1)	63.2	63.6	35.5	35.4	85, Class 1	30	
X capaci	tor (CX1)	48.5	51.3	30.3	30.6	T110-40=7	0.0	
C1 body	me me m	71.1	72.8	43.1	43.4	T105-40=6	5	
PCB nea	ır BD1	66.9	68.9	57.8	58.1	T130-40=9	0	
U3 body	an a s	72.3	74.0	65.5	65.7	T100-40=6	0 ~	
CY1 bod	y mill mill and	56.9	59.2	50.9	51.1	T125-40=8	5	
T1 coil	a d l	80.7	81.2	71.0	71.4	85, Class 1	30	
T1 core	white white white	79.0	79.4	70.0	70.3	85, Class 1	30	
C4 body	a at at	56.1	57.2	50.9	51.1	T105-40=6	5	

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Output wire	27.7	28.8	24.6	24.8	T80-40=40
Enclosure inside above T1	44.7	45.2	37.7	36.4	For cl.30.1
Enclosure inside under T1	42.5	45.9	38.9	39.0	For cl.30.1
Enclosure outside above T1	32.7	33.2	26.5	23.9	74-15=59
Enclosure outside under T1	26.5	38.5	27.7	27.8	74-15=59
Test floor	10.3	15.7	10.3	10.5	65-15=50
Ambient	22.6°C	22.3°C	23.9°C	23.2°C	10 - 10 S

Tested with model GTM96300-3619.5-1.5-T3

11.8	TABLE: Heating tes	t, thermocouple	s			et ster str
	Test voltage (V)		See	e below	w. m.	
The MAL	Ambient (°C)		See	e below	Set Set	MITE INTE
Thermocouple locations		Max. temp	perature r	ise measure	ed, ΔT (K)	Max. temperatu
		94V/	60Hz	254.4	//50Hz	rise limit, ΔT (ł
Whitek a	UNLIFEK WALLEK WALLER	Label up	Label down	Label up	Label down	set instet west
Appliance	e inlet	23.7	22.2	13.3	12.2	45
MOV1 bo	dy	25.4	23.7	14.2	13.1	T85-40=45
Choke wi	nding (LF1)	81.1	76.1	36.7	34.5	85, Class 130
X capacit	or (CX1)	53.0	43.1	27.7	24.1	T110-40=70
C1 body	ALTER MUTER WAITE	68.6	63.4	42.8	40.2	T105-40=65
PCB near	r BD1	78.1	74.7	56.3	59.8	T130-40=90
U3 body	NUTER WALTE WALT V	56.7	54.5	46.9	46.2	T100-40=60
CY1 body		54.0	56.8	40.9	44.6	T125-40=85
T1 coil	it watt wat was	58.1	57.0	49.7	49.3	85, Class 130
T1 core	t at at se	57.7	56.4	48.5	48.6	85, Class 130
C4 body	mer mer me	40.1	39.2	34.1	33.7	T105-40=65
Output wi	ire of set set	33.2	33.7	28.3	29.6	T80-40=40
Enclosure	e inside above T1	54.1	52.5	44.0	44.0	For cl.30.1
Enclosure	e inside under T1	53.4	48.5	38.6	34.5	For cl.30.1
Enclosure	e outside above T1	37.4	34.6	28.7	28.6	74-15=59
Enclosure	e outside under T1	37.7	33.0	26.7	21.1	74-15=59
Test floor	s at at	1.5	1.3	0.7	1.9	65-15=50
Ambient	white white white	23.6°C	23.9°C	22.1°C	23.6°C	Str. Str. N



Tested with model GTM96300-3614.5-2.5-T2

11.8	TABLE: Heating tes	t, thermocouple	ទ្ធា 🖓			P
NULL Y	Test voltage (V)		See	e below	all the set	Standing white
dt.	Ambient (°C)		See	e below	5 · · · ·	L A A
Thermocouple locations		Max. temp	perature ri	se measure	ed, ΔT (K)	Max. temperature
		94V/0	60Hz	254.4	//50Hz	rise limit, ΔT (K)
When	net the with	Label up	Label down	Label up	Label down	white white white
Appliance	e inlet	18.8	17.1	11.9	13.0	45
MOV1 bo	ody	19.3	21.1	10.4	15.0	T85-40=45
Choke w	inding (LF1)	48.8	48.3	26.5	28.9	85, Class 130
X capacit	tor (CX1)	41.8	43.3	24.0	27.6	T110-40=70
C1 body	A A A	- 47.7	47.5	36.8	38.3	T105-40=65
PCB nea	r BD1	57.7	56.1	50.8	54.5	T130-40=90
U3 body	at at at	41.8	45.2	39.6	42.9	T100-40=60
CY1 bod	y where the second	40.2	40.2	38.4	38.1	T125-40=85
T1 coil	A A AT	56.1	57.1	54.6	55.4	85, Class 130
T1 core		50.6	51.6	48.5	50.2	85, Class 130
C4 body	÷	49.4	51.4	48.2	50.2	T105-40=65
Output w	ire	26.7	27.2	25.7	26.6	T80-40=40
Enclosur	e inside above T1	43.0	44.6	39.6	41.6	For cl.30.1
Enclosur	e inside under T1	35.4	36.0	32.8	32.8	For cl.30.1
Enclosur	e outside above T1	30.2	33.5	26.2	29.7	74-15=59
Enclosur	e outside under T1	24.1	26.0	21.9	21.5	74-15=59
Test flooi	The write write write	12.4	13.5	11.3	11.3	65-15=50
Ambient	e at at a	23.1°C	22.9°C	23.0°C	22.4°C	

Tested with model GTM96300-3614.5-2.5-T2

11.8	.8 TABLE: Heating test, resistance method						
W. M	Test voltage (V)				it white white	4	1 1
d s	Ambient, t ₁ (°C)			:	1 - 2 2		st
m	Ambient, t ₂ (°C)			it is a superior	with with	m	- zn.
Tempera	ature rise of winding	R ₁ (Ω)	R ₂ (Ω)	∆ T (K)	Max. △ T (K)		ulation
- 1	the ter street	are -m	m. in	- <u></u>	1 - A	đ	



Supplementary information:

13.2	TABLE: Leakage current			P
MALT	Heating appliances: 1.15 x rated input (W) :	- Jet Jet	INLIES INDUTE IN	<u> ~</u>
uner an	Motor-operated and combined appliances: 1.06 x rated voltage (V):	254.4	ster whet are	cet our
Leakage	current between	I (mA)	Max. allowed	l I (mA)
Tested w	ith model GTM96300-3636-6.0-T3	10t .50t .5	Et White White	me
L/N to pla	astic enclosure	0.01	0.35 pea	ak 🦽
L/N to ou	tput connector	0.16	0.35 pea	ak
Tested w	ith model GTM96300-3619.5-1.5-T3	In in	at at	1th
L/N to pla	astic enclosure	0.01	0.35 pea	ak 🔊
L/N to ou	tput connector	0.14	0.35 pea	ak
Tested w	ith model GTM96300-3614.5-2.5-T2	NUTER WALTE WA	me me	2m
L/N to pla	astic enclosure	0.01	0.35 pea	ak 🦯
L/N to ou	tput connector	0.08	0.35 pea	ak
Tested w	ith model GTM96300-2307.5-2.5-T3	t at at	Set Set	NUTER
L/N to pla	astic enclosure	0.01	0.35 pea	ak
L/N to ou	tput connector	0.13	0.35 pea	ak
Supplem	entary information:			<u>.</u>

13.3	TABLE: Dielectric strength		P
Test volt	age applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Tested w	ith model GTM96300-3636-6.0-T3	a to the the	ister aster aller .
L/N to pla	astic enclosure	3000	No
L/N to ou	tput connector	3000	No No No
Primary a	and secondary of T1	3000	No
Seconda	ry and iron core of T1	3000	No
One laye	r of insulation tape	3000	No
Tested w	ith model GTM96300-3619.5-1.5-T	3 of the set set with	white white white
L/N to pla	astic enclosure	3000	No
L/N to ou	tput connector	3000	No w No w
Primary a	and secondary of T1	3000	A ANO A
Secondar	ry and iron core of T1	3000	No
One laye	r of insulation tape	3000	t at Nort and
Tested w	ith model GTM96300-3614.5-2.5-T	2	me m m

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L/N to plastic enclosure	3000	No	
L/N to output connector	3000	No	
Primary and secondary of T1	3000	No	
Secondary and iron core of T1	3000	No No No	
One layer of insulation tape	3000	No	
Tested with model GTM96300-2307.5-2.5-T	3 At Strate N	the must show the	
L/N to plastic enclosure	3000	the No of the	
L/N to output connector	3000	No	
Primary and secondary of T1	3000	Not St	
Secondary and iron core of T1	3000	No	
One layer of insulation tape	3000	No No	
Supplementary information:	Intreast white white white a	he the to a	

16.2	TABLE: Leakage current		Р
WILLE	Single phase appliances: 1.06 x rated voltage (V):	254.4	A WALTER WALTE WALTE
WALTER S	Three phase appliances 1.06 x rated voltage divided by √3 (V):	- miret miret	waiter whiter and
divided by √3 (V) Leakage current between Fested with model GTM96300-3636-6.0-T3 L/N to plastic enclosure	l (mA)	Max. allowed I (mA)	
Tested wi	th model GTM96300-3636-6.0-T3		in my my m
L/N to plastic enclosure		0.01	0.25
L/N to output connector		0.10	0.25
Tested wi	th model GTM96300-3619.5-1.5-T3	at at all	- the street with
L/N to pla	stic enclosure	0.01	0.25
L/N to out	put connector	0.08	0.25
Tested wi	th model GTM96300-3614.5-2.5-T2	me me	Nº TO TO TO
L/N to pla	stic enclosure	0.01	0.25
L/N to out	put connector	0.08	0.25
Tested wi	th model GTM96300-2307.5-2.5-T3	Tet MITER MIT	white white white
L/N to pla	stic enclosure	0.01	0.25
L/N to out	put connector	0.11	0.25
Suppleme	entary information:	4	at at at

16.3	TABLE: Dielectric strength	Mr. m. m. t. at	15 15 P 5
Test voltag	e applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Tested with	model GTM96300-3636-6.0-T3	et set with with and	white white white
L/N to plasti	ic enclosure	3000	No A

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		N
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L/N to output connector	3000	No
Primary and secondary of T1	- 3000	No
Secondary and iron core of T1	3000	No
One layer of insulation tape	3000	No No
Tested with model GTM96300-3619.5-1.5-T3	ner when we we	A & & &
L/N to plastic enclosure	3000	No No
L/N to output connector	3000	+ No of S
Primary and secondary of T1	3000	No
Secondary and iron core of T1	3000	A Not St
One layer of insulation tape	3000	No
Tested with model GTM96300-3614.5-2.5-T2	a at at at	ster strer with a
L/N to plastic enclosure	3000	No
L/N to output connector	3000	No
Primary and secondary of T1	3000	No
Secondary and iron core of T1	3000	No
One layer of insulation tape	3000	No
Tested with model GTM96300-2307.5-2.5-T3	let get get after	white white white
L/N to plastic enclosure	3000	No
L/N to output connector	3000	No No No
Primary and secondary of T1	3000	- No star
Secondary and iron core of T1	3000	No
One layer of insulation tape	3000	Not St
Supplementary information:	aller multi smill sunt	me me m

17	TABLE: Overload protectio	n, thermocouple method	What where P	
Temperat	ure rise of part/at:	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)	
Tested wit	th model GTM96300-3636-6.0-T	-3	at at at it	
T1 winding		74.5	150	
T1 bobbin	NUTER MALTE MALT WAL	69.6	For cl.30.1	
Output lead wire		31.3	55	
Tested wit	th model GTM96300-3619.5-1.5	-T3	LIEK NUTER MUTER	
T1 winding		104.0	150	
T1 bobbin	when when when a	100.0	For cl.30.1	
Output lead wire		34.1	55	
Tested wit	th model GTM96300-3614.5-2.5	-T2	ic white white white	
T1 winding	a the state state with	71.9	150	

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T1 bobbin	70.0	For cl.30.1
Output lead wire	41.4	55
Tested with model GTM96300-2307.5	-2.5-T3	1 A A A
T1 winding	64.2	150
T1 bobbin	59.7	For cl.30.1
Output lead wire	28.1	55
Supplementary information:	Ne was an in the	at let set se

19 🖉 🔬	Abnormal op	peration c	ondit	ions				St 55	Р
Operational	characteristic	s	YES	/NO	Оре	rational	conditions		
Are there electronic circuits to control the appliance operation? Are there "off" or "stand-by" position?			YES		Refer to Cl.19.11.2				
			NO	m n	N/A	de .	uset muset	united uni	ret whi
	ded operation sults in dange ?		NO	where wh	N/A	ret unit	et writet w	LIFEK WALTE	MALTE
Sub-clause	Operating conditions description	Test res descrip		PEC description	n 1	EMP 9.11.4	Software type required	19.11.3 PEC	Final result
19.2	N/A	N/A	24	N/A	10	N/A	N/A	N/A	N/A
19.3	N/A	N/A	14	N/A	S. 1	N/A	N/A	N/A	N/A
19.4	N/A	N/A		N/A	*	N/A	N/A	N/A	N/A
19.5	N/A	N/A	ÿ.	N/A	-in	N/A	N/A	N/A	N/A
19.6	N/A	N/A	<u>.</u>	N/A d	5	N/A	N/A	N/A	N/A
19.7	N/A	N/A	he .	N/A	24	N/A	N/A	N/A	N/A
19.8	N/A	N/A		N/A	STER	N/A	N/A	N/A	N/A
19.9	N/A	N/A	me	√ [®] N/A [→]	<i>v</i>	N/A	N/A	N/A	N/A
19.10	N/A	N/A	.it	N/A	<u> </u>	N/A	N/A	M/A M	N/A
19.11.2	Refer to CI.19.11.2	No haz	ard	N/A	*	N/A	N/A	N/A	P
19.11.4.8	N/A	N/A	۶° .	N/A	-an-	N/A	N/A	N/A	N/A
19.101	N/A	N/A		N/A	54	N/A	N/A	N/A	N/A
19.102 🧹	N/A	N/A	-su	N/A	20	N/A	N/A	N/A	N/A
19.103	N/A	N/A		N/A	100	N/A	N/A		N/A

19.7	TABLE: Abnormal operation, locked rotor/moving parts	N/A
m	Test voltage (V)	nu nu



10.

L	Ambient, t ₁ (°C)			- m -	· - · · ·	&
when	Ambient, t ₂ (°C)			et ster a	uter muter.	White where
Tempera	ture of winding	R ₁ (Ω)	R ₂ (Ω)	∆T (K)	T (°C)	Max. T (°C)
the a	the she she	1 - A	.d5	NITE MIT	mr - m	2 <u> </u>
Supplem	entary information:	Martin Martin	MULL WIT	- Ch Ch.		at st

19.9 🧹	TABLE: Abnormal operation, running overload						
m	Test voltage (V)			in white y	me- me	m.	
	Ambient, t ₁ (°C)		:	tr	10- 50t	S.S.	
4 1	Ambient, t ₂ (°C)			mer m			
Temperat	ure of winding	R ₁ (Ω)	R ₂ (Ω)	∆ T (K)	T (°C)	Ma	ax. T (°C)
, , , , ,	t at at	Str. Ster.	mer mer	n m.		4	<i></i>
Suppleme	ntary information:		1 st	15 55	Jule Mar	an'	ant and

19.11.2	TABLE:	fault condition	tests				P	
15 1	Ambien	t temperature (°	C)		:	25		
me m	Model/ty	ype of appliance	See below					
5th 5th	Rated m	narkings of appli	See rating label					
Component No.	Fault	Test voltage (V)	Test time	Fuse No.	Fuse current (A)	Result		
GTM96300-36	636-6.0-T3	- 5ª 5ª	white	WAL	mr 1	1. 20 2		
MOV1	SC	240	1s	F1,F2	15 ⁶⁰	Fuse opened immediately , no hazard.		
BD1	SC	240	1s	F1,F2	0 0	Fuse opened immediately , no hazard.		
C1	SC	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.		
T1 (pin1-2)	SC	240	1s	F1,F2	0	Fuse opened immediately , no hazard.		
T1 (pin TA-TB)	SC	240	1s	F1,F2	0.074	Unit shut down, restorabilit damage, no hazard.	y, no	
D2	SC	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.		
Q1 pin D-S	SC	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.		
Q1 pin G-S	SC	240	10min	F1,F2	0.017	Unit shut down, restorability, no damage, no hazard.		
U3 (pin3-4)	SC	240	10min	F1,F2	0.016	Unit shut down, restorabilit damage, no hazard.	y, no	

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U3 (pin2-1)	SC	240	10min	F1,F2	0.017	Unit shut down, restorability, no damage, no hazard.
U3 (pin1)	oc	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.
U3 (pin3)	oc	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.
C4	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
Output	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
GTM96300-36	19.5-1.5-T	3 mil mar				
MOV1	SC	240	1s	F1,F2	0,0	Fuse opened immediately, no hazard.
BD1	SC	240	1s	F1,F2	0,51	Fuse opened immediately, no hazard.
C1	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
T1 (pin1-2)	SC	240	1s	F1,F2	N-1-10- N	Fuse opened immediately , no hazard.
T1 (pin TA-TB)	SC	240	10min	F1,F2	0.046	Unit shut down, restorability, no damage, no hazard.
D2	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
Q1 pin D-S	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
Q1 pin G-S	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
U3 (pin3-4)	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
U3 (pin2-1)	SC	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.
U3 (pin1)	OC	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.
U3 (pin3)	OC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
C4	SC	240	10min	F1,F2	0.014	Unit shut down, restorability, no damage, no hazard.
Output	SC	240	10min	F1,F2	0.012	Unit shut down, restorability, no damage, no hazard.
GTM96300-36	14.5-2.5-T	2* 54	wer wer	m	m.	i i at at at
MOV1	SC	240	1s	F1,F2	0.5	Fuse opened immediately, no hazard.
BD1	SC	240	1s	F1,F2		Fuse opened immediately, no hazard.

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C1	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
T1 (pin1-2)	SC	240	1s	F1,F2	v. 0 ¹¹	Fuse opened immediately , no hazard.
T1 (pin TA-TB)	SC	240	1s	F1,F2	0.068	Unit shut down, restorability, no damage, no hazard.
D2	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
Q1 pin D-S	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
Q1 pin G-S	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
U3 (pin3-4)	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
U3 (pin2-1)	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
U3 (pin1)	OC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
U3 (pin3)	ос	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
C4	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
Output	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
GTM96300-23	07.5-2.5-1	r3 👇 🔪	1	1	10	The state out to solito and
MOV1	SC	240	1s	F1,F2	0	Fuse opened immediately, no hazard.
BD1	SC	240	1s	F1,F2	0.0	Fuse opened immediately, no hazard.
C1	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
T1 (pin1-2)	SC	240	1s	F1,F2	0	Fuse opened immediately, no hazard.
T1 (pin TA-TB)	SC	240	10min	F1,F2	0.054	Unit shut down, restorability, no damage, no hazard.
D2	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
Q1 pin D-S	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
Q1 pin G-S	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
U3 (pin3-4)	SC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
U3 (pin2-1)	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.

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U3 (pin1)	OC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
U3 (pin3)	OC	240	10min	F1,F2	0.016	Unit shut down, restorability, no damage, no hazard.
C4	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.
Output	SC	240	10min	F1,F2	0.015	Unit shut down, restorability, no damage, no hazard.

Supplementary information:

"SC" means short-circuited test, "OC" means open-circuited test.
 Thermocouple method was used.
 All types of fuse were considered.

19.13 TABLE: Abnormal operation, temperature rises					
Thermocouple locations		Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)		
- Intre	white white whe we	s at - at left	wet whet white white		
Supplem	entary information:	et atter white white sum wi	in the state		

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bact energy (Nm) Comments
0.5J No hazards
P

24.1	TABLE: Components	and the second sec			WILL SUP
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B T4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E154355
-Alternative	GUANGDONG HETONG TECHNOLOGY CO LTD	CEM1, 2V0, FR4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E243157
-Alternative	CHEERFUL PLASTIC ELECTRONIC PRODUCTS	02, 03, 03A	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E199724
-Alternative	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E251754



24.1	TABLE: Component	S STER WITE S	the appearance	19 A. A.	Р
Object / par No.	t Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
-Alternative	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E251781
-Alternative	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0, 03V0, 04V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E186016
-Alternative	KUOTIANG ENT	C-2, C-2A	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E227299
-Alternative	SHENZHEN TONGCHUANG XIN ELECTRONICS CO LTD	тсх	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E250336
-Alternative	PACIFIC WIN ELECTRONIC PRODUCTS LTI	PW-02 PW-03	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E228070
-Alternative	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E74757
-Alternative	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E231590
-Alternative	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E213009
-Alternative	SHANGHAI H-FAST ELECTRONIC CO LTD	211001, 211002	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E337862
-Alternative	Jiangxi ZHONG XIN HUA Electronics Industry Co Ltd	ZXH-2, ZXH-3	min. V-0, 130°C	UL 796	UL E331298
Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	Min. V-1, Min. thickness: 1.5mm, 105°C	UL 94 UL 746	Tested with appliance UL E45329
-Alternative	SABIC INNOVATIVE PLASTICS US L L C	C2950	Min. V-0, Min. thickness: 2.0mm, 85°C	UL 94 UL 746	Tested with appliance UL E45329



24.1 TA	BLE: Components						
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾		
-Alternative	SABIC JAPAN L L C	CX7211	Min. V-0, Min. thickness: 2.0mm, 90°C	UL 94 UL 746	Tested with appliance UL E45329		
-Alternative	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	UL 94 UL 746	Tested with appliance UL E45329		
-Alternative	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, Min. V-0, Min. thickness: 2.0mm, 125°C	UL 94 UL 746	Tested with appliance UL E45329		
-Alternative	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	Min. V-1, Min. thickness: 1.5mm, 105°C	UL 94 UL 746	Tested with appliance UL E207780		
-Alternative	SABIC INNOVATIVE PLASTICS B V	SE100	Min. V-1, Min. thickness: 2.0mm, 95°C	UL 94 UL 746	Tested with appliance UL E207780		
-Alternative	SABIC INNOVATIVE PLASTICS US L L C	C2950	Min. V-0, Min. thickness: 2.0mm, 85°C	UL 94 UL 746	Tested with appliance UL E207780		
-Alternative	SABIC JAPAN L L C	CX7211	Min. V-0, Min. thickness: 2.0mm, 90°C	UL 94 UL 746	Tested with appliance UL E207780		
-Alternative	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	UL 94 UL 746	Tested with appliance UL E207780		
-Alternative	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, Min. V-0, Min. thickness: 2.0mm, 125°C	UL 94 UL 746	Tested with appliance UL E207780		
-Alternative	TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	PC, Min. V- 0, Min. thickness: 2.0mm, 115°C	UL 94 UL 746	Tested with appliance UL E50075		
Appliance inlet (CON1 Class I)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac	IEC60320-1	VDE 40032465		
units(C6 type) -Alternative	Rich Bay Co., Ltd.	R-30790	2.5A, 250Vac	IEC60320-1	VDE 40030381		
-Alternative	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02	2.5A, 250Vac	IEC60320-1	VDE 40034448		
-Alternative	TECX-UNIONS Technology Corporation	TU-333	2.5A, 250Vac	IEC60320-1	ENEC-00633		



24.1 TA	BLE: Components	aller aller	mer me m		Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	Rong Feng Industrial Co., Ltd.	RF- 190	2.5A, 250Vac	IEC/EN 60320- 1	VDE 40030379
-Alternative	Inalways Corporation	0724	2.5A, 250Vac	IEC60320-1	ENEC/FI 2010080
-Alternative	Zhe Jiang BeiErjia	ST-A04-002	2.5A, 250Vac	IEC60320-1	VDE 40016045
-Alternative	Shenzhen Delikang Electronics Technology Co., Ltd	CDJ-2	2.5A, 250Vac	IEC60320-1	VDE 40015580
Appliance inlet (CN1 Class II) units (C8 type)	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac	IEC60320-1	VDE 40032028
-Alternative	Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac	IEC60320-1	VDE 40030384
Alternative	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-01	2.5A, 250Vac	IEC60320-1	VDE 40034449
-Alternative	Rong Feng IndustrialCo., Ltd.	RF-180	2.5A, 250Vac	IEC60320-1	VDE 40030168
-Alternative	Inalways Corporation	0721	2.5A, 250Vac	IEC60320-1	ENEC/FI 2010087
-Alternative	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	ST-A03-005	2.5A, 250Vac	IEC60320-1	VDE 40014833
-Alternative	Kunshan DLK Electronics Technology Co., Ltd	CDJ-8	2.5A, 250Vac	IEC60320-1	VDE 40025531
Appliance inlet CN1 Class I units (C14 type	Zhejiang LECI Electronics Co.,) Ltd.	DB-14	10A, 250Vac	IEC/EN 60320-1	VDE 40032137
-Alternative	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac	IEC/EN 60320-1	VDE 40030228
Alternative	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
-Alternative	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac	IEC/EN 60320-1	VDE 40034447
-Alternative	TECX-UNIONS Technology Corporation	TU-301-S, TU-301-SP	10A, 250Vac	IEC/EN 60320-1	ENEC 00647



24.1 TA	BLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	Inalways Corporation	0711	10A, 250Vac	IEC/EN 60320-1	ENEC 2010084
-Alternative	Zhe Jiang Bei Er jia	ST-A01-003J	10A, 250Vac	IEC/EN 60320-1	VDE 40013388
Appliance inlet CN1 Class II units (C18 type	Rong Feng Industrial Co., Ltd	SS-120	10A,250V	IEC/EN 60320-1	VDE 40028101
-Alternative	HCR ELECTRONICS CO., LTD	SK05	10A,250V	IEC/EN 60320-1	ENEC NO4018
Earthing wire (for Class I only	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIE S CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E237831
Alternative	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E333601
Alternative	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E315628
Alternative	YONG HAO ELECTRICAL INDUSTRY CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E240426
Alternative	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E204204
Alternative	SHENG YU ENTERPRISE CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E219726
Alternative	KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E315421
-Alternative	SUZHOU YEMAO ELECTRONIC CO LTD	1015, 1007, 1185	Min.18AWG, Min. 300V, Min. 80°C	UL 758	Tested with appliance UL E353532



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24.1 TA	BLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Heat-shrinkable Tube (Optional)	SHENZHEN WOER HEAT-SHRINKA BLE MATERIAL CO LTD	RSFR RSFR-H RSFR-HPF	600V, 125°C	UL 224	Tested within appliance UL E203950
-Alternative	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	UL 224	Tested within appliance UL E225897
-Alternative	DONGGUAN SALIPT CO LTD	SALIPT S-901-300 SALIPT S-901-600	Min. 300V, 125°C	UL 224	Tested within appliance UL E209436
-Alternative	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C	UL 224	Tested within appliance UL E214175
-Alternative	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	UL 224	Tested within appliance UL E180908
Fuse (F1, F2) (F2 is Optional)	Conquer Electronics Co., Ltd.	MST series	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40017118 UL E82636
-Alternative	Ever Island Electric Co., Ltd. And Walter Electric	2010, ICP	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40018781 UL E220181
-Alternative	Bel Fuse Ltd.	RST-Serie(s)	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40011144 UL E20624
-Alternative	Cooper Bussmann LLC	SS-5	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40015513 UL E19180
-Alternative	Shenzhen Lanson Electronics Co. Ltd.	SMT	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40012592 UL E221465
-Alternative	Das & Sons International Ltd.	385T series	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40008524 UL E205718
-Alternative	Dongguan Better Electronics Technology Co., Ltd.	932	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40033369 UL E300003



24.1	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	Hollyland Company Lumited	5ET	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40015669 UL E156471
et writet w	Sunny East Enterprise Co. Ltd.	CFD-Serie(s)	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40030246 UL E133774
-Alternative	Conquer Electronics Co., Ltd.	MET series	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40017157 UL E82636
-Alternative	Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 Serie(s)	T3.15A, 250V	IEC 60127- 1 IEC 60127-3 UL 248- 1 UL 248- 14	VDE 40017009 UL E213695
Varistor (MOV (optional)	(1) Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 005944
-Alternative	Centra Science Corp.	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 40008220
-Alternative	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 40030401
Alternative	Walsin Technology Co., Ltd.	10D471K 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 40010090
Alternative	Lien Shun Electronics Co. Ltd	10D471K 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 40005858
-Alternative	Ceramate Techn. Co., Ltd.	GNR10D471K GNR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 40031745



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24.1 TA	BLE: Components	me me m	20 2	Р	
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	Brightking (Shenzhen) Co., Ltd.	10D471K 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 40027827
-Alternative	Joyin Co., Ltd.	10N471K 14N471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051- 1 IEC 61051-2 IEC 61051-2-2	VDE 005937
Line filter (LF1)	GlobTek/HAOPU WEI/HEJIA/BOA M	LF007	17mH	IEC 60335-1	Test with equipment
X-Capacitor (CX1) (optional	Cheng Tung) Industrial Co., Ltd.	стх	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	UL 60384- 14 UL 1414	UL E193049
-Alternative	Tenta Electric Industrial Co. Ltd.	MEX	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 119119 UL E222911
-Alternative	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40032481 UL E216807
-Alternative	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40015608 UL E183780
-Alternative	Yuon Yu Electronics Co. Ltd.	МРХ	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40032392 UL E200119
-Alternative	Sinhua Electronics (Huzhou) Co ., Ltd.	MPX	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40014686 UL E237560
-Alternative	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40022417 UL E311166
-Alternative	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40018798 UL E147776
-Alternative	Shenzhen Jinghao Capacitor Co ., Ltd.	CBB62B	Min. 300VAC, 110°C, X1 or X2 Max. 0.47µF	IEC 60384-14 UL 60384- 14 UL 1414	VDE 40018690 UL E252286



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24.1	TABLE: Components	ABLE: Components					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾		
Y-Capacitor (CY1,CY2)	TDK CORPORATION	CD	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40029780 UL E37861		
-Alternative	Success Electronics Co., Ltd.	SE	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280		
-Alternative	Success Electronics Co., Ltd.	SB	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280		
-Alternative	Murata Mfg. Co., Ltd.	кх	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40002831 UL E37921		
-Alternative	Walsin Technology Corp.	AH	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001804 UL E146544		
-Alternative	JYA-NAY Co., Ltd.	JN	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	TUV 69242987 UL E201384		
-Alternative	Haohua Electronic Co.	CT 7	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40003902 UL E233106		
-Alternative	Jyh Chung Electronic Co., Ltd.	JD	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 137027 UL E187963		
-Alternative	Jerro Electronics Corp.	JX-series	Max.4700pF Min 250Vac Min.Y1 Min 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032158 UL E333001		
Optocoupler (U3)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm Int. , dcr=6.0mm EXT.dcr=7.7mm, thermal cycling test, 110°C	IEC 60747-5-5	VDE 132249		



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24.1 T	ABLE: Components	STER MITE W	ur me m	1997 - 1997 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 -	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	COSMO Electronics Corporation	K1010/KP1010	Dti=0.6mm Int, dcr=4.0mm, EXT.dcr=5.0mm, thermal cycling test, 115°C	IEC 60747-5-5	VDE 101347
-Alternative Fairchild Semiconductor Pte Ltd		H11A817B/FOD 817B	Isulation voltage:850V; Transient overvoltage;600 0V;CTI175;Int.Cr /Ext.Cr: ≥7.0/7.0mm;30/1 10/21;	I IEC 60747-5-5	VDE 40026857
-Alternative Toshiba Electronic Devices & Storage Corporation		TLP781KF	ti>0.4mm Int, EXT.ci> r8.0mm,Isolation 3000Vac min.,110°C; thermal cycling test	IEC 60747-5-5	VDE 40031808
-Alternative Lite-On Technology Corporation		LTV-817	Dti=0.8mm Int. , EXT.dcr=7.8mm, thermal cycling test, 110°C	IEC 60747-5-5	VDE 40015248 UL E113898
-Alternative Sharp Corporation Electronic Components and Devices Group		PC817	Insulation voltage: 890V; Transient overvoltage: 9000V Int. Cr/ Ext. Cr: 7,62/ 7,62 mm; 30/100/21	IEC 60747-5-5	VDE 40008087
-Alternative Bright Led Electronics Corp.		BPC-817 A/B/C/D/L BPC-817 M BPC-817 S	Dti=0.4mm EXT. dcr=7.0mm,ther mal cycling test,100oC	I IEC 60747-5-5	VDE 40007240
Transformer (T1)			Class B	IEC 60335-1	Test with equipment
Magnet wire			MW28-C, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E201757



24.1	TABLE: Components				P
Object / par No.	Dbject / part Manufacturer/ No. trademark		Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E201757
-Alternative JUNG SHING WIRE CO LTD		UEW-4	MW75C, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E174837
-Alternative JUNG SHING WIRE CO LTD		UEY-2	MW28-C, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E174837
-Alternative JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD		2UEW/130	MW75-C, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E335065
-Alternative CHANGZHOU DAYANG WIRE & CABLE CO LTD		DAYANG WIRE & CABLE CO		IEC/EN 60601-1 UL 1446	Tested with appliance UL E158909
-Alternative WUXI JUFENG COMPOUND LINE CO LTD		2UEWB	MW75#, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E206882
-Alternative	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E237377
-Alternative	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E194410
-Alternative ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD		UEW	MW 79#, 130oC	IEC/EN 60601-1 UL 1446	Tested with appliance UL E222214
Bobbin Changchun Plastics		T375J T375HF	Phenolic,V-0.15 0°C,min. thickness 0.45mm	UL94	UL E59481
-Alternative	Alternative CHANG CHUN PLASTICS CO LTD		V-0, 140°C, thickness 0,74 mm min.	IEC 62368- 1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
		PM-9820	Phenolic,V-0.15 0°C,min. thickness 0.45mm	UL94	UL E41429



24.1 TA	BLE: Components	alle alle .	m m m		Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alternative	Hitachi	CP-J-8800	Phenolic,V-0.15 0°C,min. thickness 0.45mm	UL94	UL E42956
Insulation tape	3M	1350F-1, 1350T-1, 44	130°C	UL 510	ULE17385
Alternative Bondtec 370S		370S	130°C	UL 510	UL E175868
-Alternative YAHUA		PZ CT WF	130°C	UL 510	UL E165111
-Alternative JINGJIANG JINGYI		JY25-A	130°C	UL 510	UL E246950
-Alternative CHANG SHU LIANG YI TAPE INDUSTRY CO LTD		LY-XX	130°C	UL 510	UL E246820
Triple winding Great Leoflon		TRW(B)	130℃	UL 1446	VDE 136581 UL E211989
-Alternative	Furukawa	TEX-E	130℃	UL 1446	VDE 006735 UL E206440
-Alternative	Totoku	TIW-2	130℃	UL 1446	VDE 40005152 UL E249037
-Alternative	COSMOLINK	TIW-M	130℃	UL 1446	VDE 138053 UL E213764
-Alternative	E&B TECHNOLOGY CO LTD	E&B-XXXB E&B-XXXB-1	130 ℃	UL 1446	VDE 40023473 UL E315265
4 14 14 15 15 15		CB-TIW	130 ℃	UL 1446	VDE 40037495 UL E357999
Alternative SHENZHEN JIUDING NEW MATERIAL CO LTD		DTIW-B	130℃	UL 1446	VDE 40037495 UL E357999
-PTFE tubing			Min. 300V, 200°C	UL 224	Tested with appliance UL E156256



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24.1	TABLE: Components	s the street s			Р
Object / part Manufacturer No. trademark		Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
-Alt. use	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C	UL 224	Tested with appliance UL E203950
-Alt. use CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD		CB-TT-T / CB- TT-S	Min. 300V, 200°C	UL 224	Tested with appliance UL E180908
Output cord	Interchangeable	Interchangeable	Min. 20AWG, min. 300Vac, min. 80°C	UL 758	UL MITTER

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

28.1	TABLE: Threade	d part torque test							
Threaded	d part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)					
- de la	14 NY 14	<u> </u>	-	alt set states					

29.1	TABLE: Clearance	s 🖉				20	Р
niter wi	Overvoltage categ	ory.:		Category	Let Set	J.F.	Nº 11 P
	t it it	Set al	Type of in	sulation:	e. n	50 L	
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdi Rema	
330	0,2* / 0,5 / 0,8**		50 - 50 ·	NUTER- NUTE	min m	-m-	-m
500	0,2* / 0,5 / 0,8**	anter a	w. The		A A	h	5
800	0,2* / 0,5 / 0,8**	7	Set Ster in	Je Hur	ner - m	m	-20
1 500	0,5 / 0,8** / 1,0***	mr - 4	1	L	st - st	5 th	S.F.
2 500	1,5 / <u>2,0</u> ***	>2.0	>2.0	in the	>2.0	P	
4 000	3,0 / <u>3,5</u> ***	~ - m	I I A	>3.5	t - 5th	S. B	SE .
6 000	5,5 / 6,0***	d - 5°	untit - white	mer - mer	an a		
8 000	8,0 / 8,5***		1 - 1	\$ - \$	<u></u>	et nite	ant.
10 000	11,0 / 11,5***		and the state of	er an	1 1.		



Supplementary information:

*) For tracks on printed circuit boards if pollution degree 1 and 2
**) For pollution degree 3
***) If the construction is affected by wear, distortion, movement of the parts or during assembly

Basic 1):

Locations	Clearance (mm)
L & N trace before fuse	6.6
Between primary circuits to PE terminal	3.6
Functional 2):	
Locations	Clearance (mm)
Two terminals of fuse F1 /F2	2.8
Supplementary 3):	
Locations	Clearance (mm)
CY1 primary pin to earth trace	5.1
CY2 primary pin to earth trace	4.6
Reinforced 4):	
Locations	Clearance (mm)
Primary circuit to secondary ciruits (PCB trace under U3)	7.3
Primary circuits to secondary circuits (PCB trace under T1)	6.7
Transformer primary winding to secondary winding	7.2
Transformer secondary winding to core	6.8

9.2 TABLE Working voltage (V):	: Creep	age dis	Cre	basic, su eepage dis (mm) ollution de	stance	entary a	and reinfor	ced ir	nsulati	ion	STE P INT
mitet whitet wh	1 1 1	STER W	2		.x .w	3	10 - 50 18 - 56		Гуре с sulati		muter
	÷ .	Material group			Ma	aterial g	group	24 25.			
with white white	- m	40	I	IIIa/IIIb		- II_~	IIIa/IIIb*	B**	S**	R**	Verdict
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	an.		_	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	<u>gar</u>	MUTE	1000	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8			đ	N/A
125	0,28	0,75	1,05	1,5	<u></u> 1,9	2,1	2,4		۷ <u> </u>	12	.Ä/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	_	de-	<u>_</u>	N/A



Working voltage (V):				epage di (mm) ollution d				WI			
an we will	1	* 5	2	et anires	white	3	WALTE		Type o sulatio		17 V 14
the white white	m	Material group		Ma	Material group			INTERNATE MA			
at let let	Set		્યા	IIIa/IIIb	m	20 II	IIIa/IIIb*	B**	S**	R**	Verdict
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	5°	1 <u>12</u>	mer	N/A
250	0,56	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	>2.5	t.	. 	Р
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	40	>2.5	_	Р
250	1,12	2,5	3,6	<u>5,0</u>	6,4	7,2	8,0		t — .	>5.0	, Р
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	2m	-m		N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	500		- <u></u>	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6		20.	24	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	at a	5 <u>40</u>	<u></u>	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	_	4		N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0			ст. ₁	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	\overline{V} ,	—	<i>"</i> !—	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	Mr. C.	me		N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0		-	.5	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	× .	n_	200	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	st	3 ^{et}		N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	-20			N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	5	×	۶ <u> </u>	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	<u></u>		_	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	1. <u>1. 1. 1.</u>	J. L.	an	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	4	_		N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	·	Nº .	"The	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	4-	d-	At	N/A
>1600 and ≤2000	5,6	8,0	11,0	<16,0	20,0	22,0	25,0	m		_	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		۲	ø <u>-</u>	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	20th	-m.	-24	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	. Alt	-		N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	_	24		N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	¢	5 ⁰⁰	MUTER	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		_		N/A



29.2 TABLE: Working voltage (V):		age uis	Cre	epage di (mm)	stance		nd reinfor		Р		
when when when	1	*	2	ex white	white	3	white	Type of insulation			
in me me	-24r	Material group			Material group			MUTE	white	ne.	n m
at the set	JEt	1	<u></u>	llla/lllb	m	201	Illa/IIIb*	B**	S**	R**	Verdic
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	5°	M.L.	2mr	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	<u>+</u>	đ.	At	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	in.		~ <u> </u>	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		ţ.	\$ <u>*</u>	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	m	-m	- 10	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	Set.			N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		24		N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	<u></u>	5	MITE	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0			7	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		10	×	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	,		st-	_⊘N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	unia	"The	-010	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	+	10	<	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	× <	<u></u>	201-	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	st.	state -		N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	-24		—	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0		×	Ś	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	-24	_	_	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N. S. C.	NN-LTR		N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0				N/A



Working voltage (V):	et "	Set on	Cr	, basic, supp eepage dista (mm) ollution deg	ance	Sert W	NUTER SUNIT	et m	stet. N	WNLTE NRL	WALLEY
which which which	Ĩ	+ _5ª	2	set white	WALTE	3	WALT		Type o sulati		10 N
it's white white	m	Ma	terial g	group	Ma	terial g	Jroup	NUTE	and a	ne.	ma
at at at	JEt	J.	I	IIIa/IIIb	1	20.1	Illa/IIIb*	B**	S**	R**	Verdict
Supplementary inform	ation:	2.			at -	500	STE IN	5	JALA .	Mr	m
Locations					Cree	epage	(mm)				
					Cree	S -	(mm)				
L & N trace before fu	<u> </u>	DEAN	5 m - 5			6.6					
Between primary cir	cuits to	PE lem	nnai			3.6					
Supplementary 2): Locations					Croo	epage (mm)				
CY1 primary pin to e	arth tra	ace			5.1	paye (
CY2 primary pin to e					4.6						
Reinforced 3):	and in the										
					Cree	epage (mm)				
Locations						S - 1	in me				
Locations Primary circuit to see U3)	condar	y ciruits	(PCB t	race under		7.3					
Primary circuit to se	whit	in and	1			6.7					
Primary circuit to see U3) Primary circuits to se	econda	ry circuit	ts (PCI	3 trace under							

29.2	TABLE	Creep	age dis	tances		at the	₽¢ ^t			
	g voltage /):	- NULL	et which		eepage di (mm) ollution d		iet whi	rev vnit	white white with	*
	1 A	1	, de	2	at white	MALIN	3	mer n	1. 2m m	
Set Mile	MALT	me	Ma	terial g	roup	Ма	aterial g	group	et allet antier	and in
. A	A	1th	1	્યાં	Illa/IIIb	1 ² 1	м ² П –	IIIa/IIIb*	Verdict / Remar	rk
≤	10 10	0,08	0,4	0,4	0,4	1,0	_1,0	1,0	N/A	N.C.
E	50	0,16	0,56	0,8	1,1,0	1,4	1,6	1,8	N/A	A

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125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	<u>2,0</u>	2,5	2,8	3,2	PT with
400	0,75	(1,6	2,2	3,2	4,0	4,5	5,0	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

Supplementary information:

*) Material group IIIb is allowed if the working voltage does not exceed 50 V

Functional:

Locations

Two terminals of fuse F1 /F2

30.1	TABLE: Ball P	ressure Test of Therm	oplastics	at at at	Р
Allowed impression diameter (mm)			2.0	w_ n	
Object/ P	art No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	eter (mm)
Enclosure	Whitek whitek	See appended table 24.1	125	1.2	et white
		See appended table 24.1	125	0.4	MUTER
PCB		See appended table 24.1	125	0.3	

Clearance (mm)

2.8

Supplementary information:

All alternative components listed on table 24.1 were considered and the most unfavourable test result is recorded.

30.2	State P		
Object/	Manufacturer	Glow wire test (GWT); (°C)	Verdict

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	ret whitek wh	8 o 5	650		750		0.50	1
		550	te	ti	te	🖉 ti 🖉	850	
Plug holder & Enclosure	See appended table 24.1	Р	NOTE .	where a	0s	0s	P	et Pret
Appliance inlet	See appended table 24.1	nn er v	12 - 11 12 - 13	et mus	3.3s	1.7s	SEK P SE	SULL PL V
T1 bobbin	See appended table 24.1	ندمیں دیدمیں		whitek	0s	0s	P	MITE POIN
Output connector	See appended table 24.1	WALTER	anuret .	NUT V	7.6s	4.7s	N P N	P
Object/ Part No./ Material	Manufacturer / trademark	Glow-wire flammability index (GWFI), °C			GW ignition temp. (GWIT), °C		Verdict	
		550	650	750	850	675	775	
t <u>A</u> t .	Set on Second	2 June	-40-	20	1 <u>x</u>	1 - A		50-5
The test spec	imen passed the	glow wire	e test (GV	VT) with n	o ignition [(te – ti) ≤ 2s]	(Yes/No):	Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)							N/A	
	imen passed the -wire (Yes/No)?							No
Invition of the	specified layer p	laced un	derneath t	the test sr	ecimen (Ye	es/No)	e an	No

- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF
 - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances

All alternative components listed on table 24.1 were considered and the most unfavourable test result is recorded.

30.2/30.2.4 TABLE: Needle- flame test (NFT)						
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)	Verdic t	
- + *	1 1 1 50	ner wer when	2020.			

Supplementary information:

- NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1

- NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0

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Photo Documentation

Model: GTM96300-3636-6.0-T3



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Photo 3



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Photo 6

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Photo Documentation

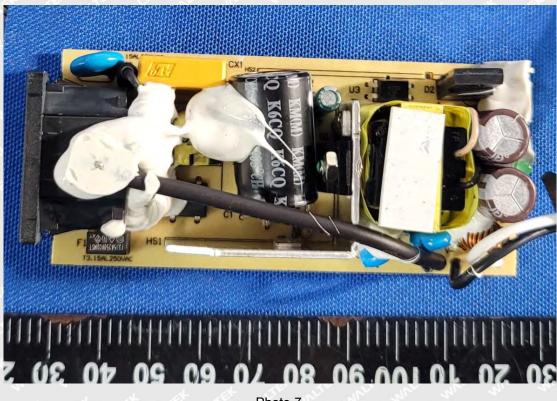


Photo 7

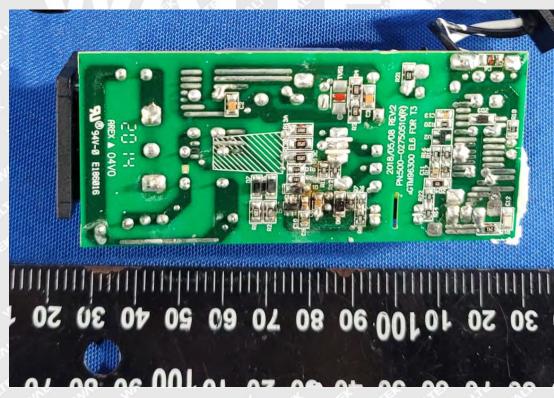


Photo 8

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Model: GTM96300-3619.5-1.5-T3







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Photo 12

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Photo 14

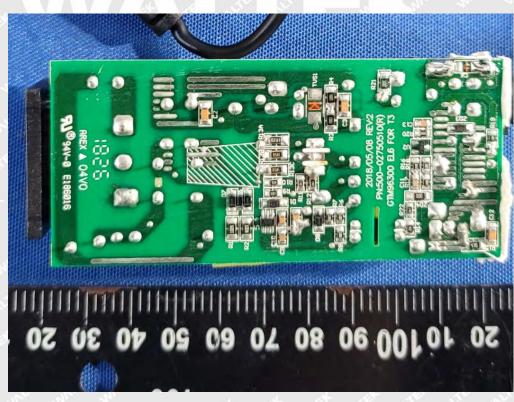
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Photo 15



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Photo 17



Photo 18



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Photo 20





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Photo Documentation



Photo 23

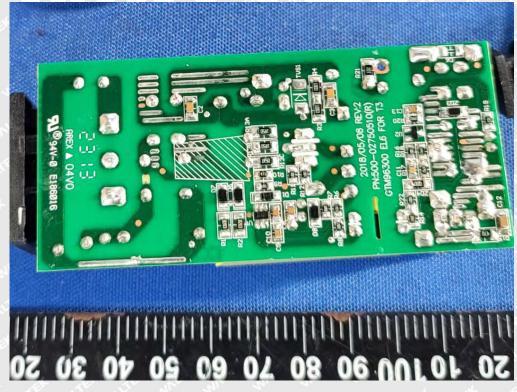


Photo 24

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Model: GTM96300-2307.5-2.5-T3

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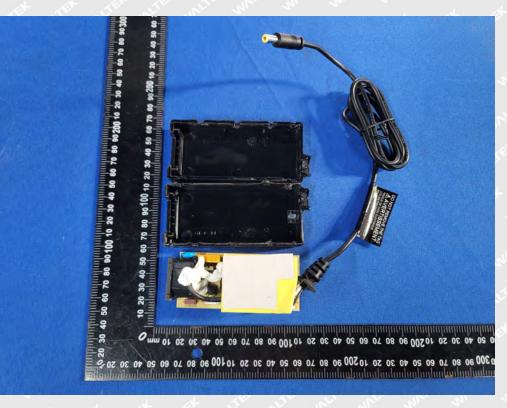


Photo 29



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Photo Documentation



Photo 31

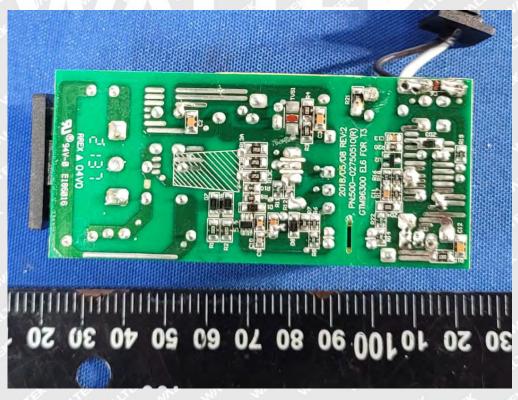


Photo 32

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