

TEST REPORT

Reference No		WTX22X10204491S
Applicant	:	GlobTek, Inc.
Address	ne	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	CTE!	GlobTek, Inc.
Address		186 Veterans Dr. Northvale, NJ 07647 USA
Product Name		ITE POWER SUPPLY
Model No	ţ.	GT*96900P****, GT*961200P**** (See pages 4-5 for details)
Test specification	JUNET JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	Safety of household and similar electrical appliances Part I: general requirements Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 EN 62233:2008
Date of Receipt sample	e¥-	2022-10-14
Date of Test	: 4	2022-10-14 to 2022-11-11
Date of Issue	7	2022-11-17

Remarks:

Test Report Form No.:

Test Result.....

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.

WTX_EN60335_1_2012F

Pass

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:	Approved by:
Ian Sun	- tentour miles
lan Sun	Harvid Wei

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Test item description ITE POWER	SUPPLY				
Trademark Glob1	Tek, Inc.				
	, GT*961200P* (Refer to pages 4-5 for details)				
Rating(s) Input: 100-24	: Input: 100-240V~, 50-60Hz, 1.5A;				
Output: Refe	r to pages 5 for details				
Whether parts of tests for the product have been subc ☐ Yes ☐ No If Yes, list the related test items and lab information: Test items: Lab information:	contracted to other labs:				
Summary of testing:	the lites with write and and and				
Tests performed (name of test and test clause): - EN 60335-1:2012+A11:2014+A13:2017+A1:2019 +A14:2019+A2:2019 - EN 62233:2008 The submitted samples were found to comply with the requirements of above specification	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				



Copy of marking plate:





Remark:

Above label for reference only, final label marking on product shall contain the information at least. Other models are with similar label as corresponding above models except different model name and output ratings.

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Test item particulars:	mile unit was was well and an	
Classification of installation and use:	Portable appliance and indoor used only	
Supply Connection:	Appliance inlet	
Class of equipment:	Class II	
Possible test case verdicts:	Mur Aur Au Au	
- 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 telescope state with with with	
The test result presented in this report relate only to the This report shall not be reproduced, except in full, without "(see Enclosure #)" refers to additional information applicate appended table)" refers to a table appended to the	out the written approval of the Issuing testing laboratory pended to the report.	
Throughout this report a \square comma $/$ \bowtie point is u		

General product information:

- 1. The appliance is intended for household and indoor use only.
- Transformers used in all models are with same construction. The turns of secondary winding may be added or reduced according different output voltage. Each standard rated output voltage designation corresponds to a transformer model. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.
- 3. All the types are designed for continuous operation.
- 4. The product top enclosure is secured to bottom enclosure by ultra sonic welding.

Model similarity:

GT*96900P**** and GT*961200P****

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

When model = GT*96900P****

The 2nd "*" denotes the rated output wattage designation, which can be "01" to "90" with interval of 1.

The 3rd "*" denotes the standard rated output voltage designation, which can be "12" to "30" or "12.0" to "30.0" in 0.1V increments.

The 4th "*" =- T2 means desktop class II with C8 AC inlet

=-T2A means desktop class II with C18 AC inlet

The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

When model = GT*961200P****

The 2nd "*" denotes the rated output wattage designation, which can be "01" to "120" with interval of 1. The 3rd "*" denotes the standard rated output voltage designation, which can be "12" to "24" or "12.0" to "24.0" in 0.1V increments.

The 4th "*" =- T2 means desktop class II with C8 AC inlet

=-T2A means desktop class II with C18 AC inlet

The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

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Model list:

GT*96900P**** and GT*961200P**** Desktop models

Model	Output voltage	Max. output current	Max. output power
GT*96900P****	12-24VDC	7.5A	90W
GT*961200P****	12-14.9VDC	9.25A	111W
GT*961200P****	15-30VDC	8A	120W

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	EN 60335-1		11/2 1/1
Clause	Requirement – Test	Result – Remark	Verdic
5	GENERAL CONDITIONS FOR THE TESTS		
NATTER	Tests performed according to Clause 5, e.g. nature of supply, sequence of testing, etc.	WIFE WILES MULTER W	NITE MILP
6.00	CLASSIFICATION	a at the a	et GPP
6.1	Protection against electric shock: Class 0, 0I, I, II, III:	Class II	P
WILE	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
7.50° .11	MARKING AND INSTRUCTIONS	the the the	JE NO P
7.1	Rated voltage or voltage range (V):	See marking label	Р
TE WALT	Symbol for nature of supply, or:	See marking label	Pur Pur
+ 2	Rated frequency (Hz)	See marking label	+ P
Mer	Rated power input (W), or:	CLIEF WILLE WHITE	N/A
All the	Rated current (A):	See marking label	P.
2.k 2002 - 2	Manufacturer's or responsible vendor's name, trademark or identification mark	See page 1	Р
VILL MA	Model or type reference:	See pages 4-5	y P N
et d	Symbol IEC 60417-5172, for class II appliances	See marking label	P O
an.	IP number, other than IPX0:	IPX0	N/A
WALTER	Symbol IEC 60417-5180, for class III appliances, unless	still still south	N/A
at the	the appliance is operated by batteries only, or	20 20 24	N/A
11/2 M	for appliances powered by rechargeable batteries recharged in the appliance	Write Murre Murre M	N/A
ite we	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	TEX WHITE WHITE WHI	N/A
MALTEX	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	MULTER WALTER WALTER	N/A
7.2	Warning for stationary appliances for multiple supply	at at all .	N/A
. 2,	Warning placed in vicinity of terminal cover	The Mary May My	N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	100-240V	Pin Pini
LIER	Different rated values marked with the values separated by an oblique stroke	- at alt alt	N/A

(1) (5)	EN 60335-1	1 1 1 1 1 1	4
Clause	Requirement – Test	Result – Remark	Verdict
	with the Mr. And And the	L at all the till	
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
itek _w ni	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	tex writer writer writer	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	MULTER WHITE WHITE WHITE	PL
UTIEK VI	the power input or current are related to the arithmetic mean value of the rated voltage range	THE THE LIFE BUTER	N/A
TEK WALT	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	EX WILEY WILEY WILEY	TEX P
7.6	Correct symbols used		+ P
- In-	Symbol for nature of supply placed next to rated voltage	White white was win	VP
MULL A	Symbol for class II appliances placed unlikely to be confused with other marking	WALLER WALLE WALLE WALLE	w P
Villey AW	Units of physical quantities and their symbols according to international standardized system	THE WALTER WALTER	P
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
WILL	correct mode of connection is obvious	LIEK SLIER WLIE WILL	N/A
7.8	Except for type Z attachment, terminals for connection as follows:	on to the supply mains indicated	N/A
ser si	- marking of terminals exclusively for the neutral conductor (letter N)	of the set set	N/A
	- marking of protective earthing terminals (symbol IEC 60417-5019)	which was an a	N/A
'n,	- marking of functional earthing terminals (symbol IEC 60417-5018)	MULT MULT MULT MINE	N/A
"VOL.	- marking not placed on removable parts	TER STEE STEE STATE	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
Olddoo	Troquironionic Tool	Troodic Tromanc	Volum
All J	If figures are used, the OFF position indicated by the figure 0	MULLE MULL MULL A	N/A
WE W	The figure 0 indicates only OFF position, unless no confusion with the OFF position	Write Mile Mile M	N/A
7.11	Indication for direction of adjustment of controls	THE STEE WIFE SMITE	N/A
7.12	Instructions for safe use provided	Refer to user manual	J P
MULL	Details concerning precautions during user maintenance	White Mile Mile	W P
METER	The instructions state that:	TEK ALTER MITER A	NIT NIP
nitek wi	- 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	Whitek whitek whitek whi	P
t lifet	- children being supervised not to play with the appliance	L of the tot	Р
MULTER A	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	MUTER MUTER AUTER	N/A
NLTER WAY	Instructions for class III appliances state that it must only be supplied at SELV, unless	White white	N/A
EK WALTE	it is a battery-operated appliance, the battery being charged outside the appliance	The Street of the Street	N/A
- INLIER	For appliances for altitudes exceeding 2 000 m, the maximum altitude is stated	Tet the street	N/A
untites ou	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	Will Muries Muries and	N/A
7.12.1	Sufficient details for installation supplied	TER LIER OLIER WILL	N/A
et white	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	t white whitek whitek	N/A
WALTER	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	MULTER MULTER MULTER M	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 whitet whitet whitet	N/A

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3 312	EN 60335-1	All Jan Jan Jan	TOPE WALL
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	MILL WILL WILLER	N/A
7.12.4	Instructions for built-in appliances:	m, m, m,	N/A
in mi	- dimensions of space	LEK NITER WITER WY	N/A
± 4	- dimensions and position of supporting and fixing		N/A
m.	- minimum distances between parts and surrounding structure	MULTE MILL MILL	N/A
MULLY.	- minimum dimensions of ventilating openings and arrangement	WALTER WALTER WALTER	N/A
n ^{lter} on	- connection to supply mains and interconnection of separate components	NITER OUTER WHITER OF	N/A
iek waii	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	EX WAITER WAITER WAT	N/A
MILLE	a switch complying with 24.3	t tek atter miter	N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	et let let	N/A
<i>(</i> 0,	Replacement cord instructions, type Y attachment	were mure in .	N/A
ALTE WAS	Replacement cord instructions, type Z attachment	At Market 16	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	white white whi	N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	WHITE WALTER WALTER	N/A
7.12.8	Instructions for appliances connected to the water m	ains:	N/A
	- max. inlet water pressure (Pa):	he the the	N/A
ite whi	- min. inlet water pressure, if necessary (Pa):	TER STER SUTER WA	N/A
ek watter	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	* MULTER MULTER MULTE	L 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	MALTER MALTER MALTER	WALTE WARPER
NITE JU	These instructions may be supplied with the appliance separately from any functional use booklet	LIFEK WALTER WALTER W	LT P
IEK WALTE	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	et united united unit	Et un IER Pini
MALIER	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	MALIER WALTER WALTER	unit & Pre

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Clause	Requirement Test	Result – Remark	Verdic
Clause	Requirement – Test	Result – Remark	Verdic
UNITEK N	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD	JUNE WALL JUNE	THE P
7.13	Instructions and other texts in an official language	English	Р
7.14	Markings clearly legible and durable:	LIER NITER INTERNAL	Poli
ek antie	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	of life lifet with	N/A
SLIER	Uppercase letter of the text explaining the signal word not smaller than 1.6 mm	AND	N/A
Villek M	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0.25 mm, unless	trest wifes whites w	N/A
J 2	contrasting colours are used	L 20 2	P
, mur	Markings checked by inspection, measurement and rubbing test as specified	LEK MULTER MULTER MULT	P.II
7.15	Marking on a main part	On body	Inti NP
SUEK.	Marking clearly discernible from the outside, if necessary after removal of a cover	Tet Tet Tet	DITEK PA
JEK J	For portable appliances, cover can be removed or opened without a tool	art mr m	N/A
EK JALTE	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	and the sur	N/A
WALTER	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	NITER WILER WAITER	N/A
unitek vi	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	MITER WHITEL WHITEL W	N/A
it "	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	The wife with whi	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	white white white	N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS	with me me.	n P
3.1	Adequate protection against accidental contact with live parts	LITER WITER WITER ON	LIEF WILLE
3.1.1	Requirement applies for all positions, detachable parts removed	et stret miret wei	EK JEK P
NALTER	Lamps behind a detachable cover not removed, if conditions met	- Tek Tek Stek	N/A
A LIFE	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	Mr. M. D.	N/A

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	EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict		
M. C.	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	MILLER MILLER MILLER MIL	Р		
WILLER W	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	uniter whitek whitek white	Р		
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	TEX MITER WHITE WHITE	P		
MALTER	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	WILLER WHILER WHI	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		N/A		
7 LE4	For a single switching action obtained by a switching device, requirements as specified	van van van	N/A		
MULIER A	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:	The set	Р		
CF 76	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	To the set	N/A		
Me	- safety extra-low d.c. voltage: not exceeding 42.4 V	Max. 30.23V d.c.	Р		
MALTER	- or separated from live parts by protective impedance	THE STIET MITES MA	IE PIEK		
INLIEK M	If protective impedance: d.c. current not exceeding 2 mA, and	Tel Tel Stel Stel	N/A		
	a.c. peak value not exceeding 0.7 mA	Max. 0.157mA	Р		
ille mi	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 μF	TER WILLER WILLER	N/A		
ek white	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	* MULTER MULTER MILITER MI	N/A		
WALTER	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	NUTER MULTER MULTER MILL	N/A		
8.1.5	Live parts protected at least by basic insulation before	re installation or assembly:	N/A		
ir m	- built-in appliances	Tip Will Mill Mill Mill	N/A		
TEN JE	- fixed appliances	at let set set	N/A		
10,	- appliances delivered in separate units	Wer Aut Au 1	N/A		

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	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
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	MILITA MILITER WILLER WI	P
	Only possible to touch parts separated from live parts by double or reinforced insulation	TER WHITE WHITE WHI	P
9 JULIE	STARTING OF MOTOR-OPERATED APPLIANCES	EX LIER NITER MITE	N/A
MITER	Requirements and tests are specified in part 2 when necessary	Tet Jet Jet	N/A
10	POWER INPUT AND CURRENT	Mr. 211 21, 2	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	NUTER WHITE WHI	N/A
WALTER O	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	MULL MULL MULL	N/A
NLTEK WA	Otherwise the power input is the arithmetic mean value	SEE SINITER MINIS	N/A
IEK WALTE	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	antie mitter untiek	N/A
MALTER	the rated power input is related to the arithmetic mean value	DUTER MUTER WAITER	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)	P P
ife _{vinci} ex _{vincife} s ex	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		N/A
ance o	Otherwise the current is the arithmetic mean value	WITE WITE WAITE W	N/A
Wilek MU	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	TITEE WHITEE WHITEE WHITE	Et NIT P
TEN WALTE	the rated current is related to the arithmetic mean value of the range	EX MALTEX MALTER MALTE	N/A
11 30	HEATING	t at alt set	IT PIE
11.1	No excessive temperatures in normal use	Will Mur Mur	Р

TEN OUT	EN 60335-1	at let set set.	ماراك مارا
Clause	Requirement – Test	Result – Remark	Verdict
The state of	matt with any with any	the set of the set	CE STEE
11.2	The appliance is held, placed or fixed in position as described	Placed in the test corner as specified	Р
11.3	Temperature rises, other than of windings, determined by thermocouples	By thermocouples	Р
ir, au	Temperature rises of windings determined by resistance method, unless	LIER WALTER WALTE WALTE	N/A
WALTE	the windings makes it difficult to make the necessary connections	A MILITER MILITER MILITER MI	Р
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	NITER MILIER MILIER MILI	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)	WALL D
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	LEX WHITEK WHITEK WHITEK V	N/A
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	White while while wh	Р
11.8	Temperature rises monitored continuously and not exceeding the values in Table 3	(see appended table)	un P
VILLEK AND	If the temperature rise of a motor winding exceeds the value of Table 3, or	Et Whitet whitet	N/A
SEEK WALTE	if there is doubt with regard to classification of insulation,	a the print writer w	N/A
L 25	tests of Annex C are carried out	200 20	N/A
Me	Sealing compound does not flow out	NITER MITE WALL WALL	N/A
Let.	Protective devices do not operate, except		Р
ان خان خان	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	With Must must may	N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	N Pu
13.1	Leakage current not excessive and electric strength adequate	White white white wh	Р
WALTER	Heating appliances operated at 1.15 times the rated power input (W)	MILITER MARTER WALTER MALT	N/A
NITEK WY	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage	(see appended table)	INT P

Р

Р

13.2

Protective impedance and radio interference filters

The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999

disconnected before carrying out the tests

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	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
MILITER N	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter	MILL WILL WITE W	N/A
	Leakage current measurements	(see appended table)	Р
13.3	The appliance is disconnected from the supply	THE STEE MITE MITE	W. Par
et de	Electric strength tests according to Table 4:	(see appended table)	d P
" In	No breakdown during the tests	MILIE WHITE WALL	AL P
14	TRANSIENT OVERVOLTAGES	s at at	N/A
'lik	Appliances withstand the transient over-voltages to which they may be subjected	Maria maria M	N/A
iner oli	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 :	NITE WILL WILL WILL WILL	N/A
-20.	No flashover during the test, unless	in mer mer me	N/A
MILLE	of functional insulation if the appliance complies with Clause 19 with the clearance short-circuited	MILIER WALTER WALTER	N/A
15	MOISTURE RESISTANCE	at the state of	JEH JP
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	until sund sund sund	N/A
IEK WALTE	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	intil while while	N/A
WALTER	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	Whitek whitek whitek	N/A
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	IPX0	N/A
	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	TEX WHITEK WHITEK WHITE	N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	JUNITER WALTER WALTER	N/A
WILLER	Built-in appliances installed according to the instructions	MILIER WHITER WHITER WE	N/A
NLTEK WI	Appliances placed or used on the floor or table placed on a horizontal unperforated support	LIER MILER WHITER WHI	N/A
TEX WALL	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	EX MULTEX MULTER	N/A
ounties.	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	MILITER MILITER MILITER V	N/A

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. "W.	EN 60335-1	Charles The Street	ar ar
Clause	Requirement – Test	Result – Remark	Verdic
MILITER OF	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	MILITARIES MITES	N/A
TEX WILL	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		N/A
MULL	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	ANTER WITE MIT	N/A
White.	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	Whitek whitek whitek	N/A
TEK WALT	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	LEX MILLER MULTER MULT	N/A
k whitek	Appliances with type X attachment fitted with a flexible cord as described	t lifet olifet milet	N/A
SLIEK.	Detachable parts subjected to the relevant treatment with the main part	et tet tet	N/A
LIEK WA	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	un yun yun	N/A
15.2	Spillage of liquid does not affect the electrical insulation		N/A
LIEK	Spillage solution comprising water containing approximately 1 % NaCl and 0.6 % rinsing agent	of the the	N/A
Text	Appliances with type X attachment fitted with a flexible cord as described	mer mer me	N/A
iner soni	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	Milit Whit Whit W	N/A
٨. ٠	Detachable parts removed	200 20 20	N/A
MULL	Overfilling test with additional amount of the solution, over a period of 1 min (I):	MULTER WALTER WALTE	N/A
WALTER	The appliance withstands the electric strength test of 16.3	INLIER WHILE WHILE	N/A
LIFEK WIN	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	STEEK WALTER WALTER W	N/A
15.3	Appliances proof against humid conditions	Et life street wit	Pri Pri
- NIEŁ	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	- Let Test Test	NITE MITE
11.	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	Min My My	Р

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1 200	EN 60335-1	the the tip with the	e are
Clause	Requirement – Test	Result – Remark	Verdict
All Car	Humidity test for 48 h in a humidity cabinet	25°C, 93% R.H.	Р
NATER N	Reassembly of those parts that may have been removed	SLIER WILLER WILLER	N/A
at a	The appliance withstands the tests of clause 16	a set set	Р
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	ere were mer mer a	Р
16.1	Leakage current not excessive and electric strength adequate	onliek whilek whilek whi	P
WALTER.	Protective impedance disconnected from live parts before carrying out the tests	LIER NITER MITER MATE	P
NLTEX NI	Tests carried out at room temperature and not connected to the supply	THE THE STEE STEET	P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	(see appended table)	P
t 164	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V):	the way and any	N/A
ne	Leakage current measurements:	(see appended table)	Р
J. C. E. B.	Limit values doubled if:	at at the state	N/A
24. 2	- all controls have an off position in all poles, or	MUTT MUT MUT MILE	N/A
ALTER WA	- the appliance has no control other than a thermal cut-out, or	Et Millet White v	N/A
EK WILLE	- all thermostats, temperature limiters and energy regulators do not have an off position, or	E CLIE WILLY MILIER WI	N/A
- 164	- the appliance has radio interference filters		N/A
'nu'r	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	white white whit whi	N/A
16.3	Electric strength tests according to Table 7:	(see appended table)	ur P
LIEK WILL	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified:	TEX WITEX WITEX WITEX	N/A
it still	No breakdown during the tests	t get get get gi	P
17	OVERLOAD PROTECTION OF TRANSFORMERS A	AND ASSOCIATED CIRCUITS	Р
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	UN P
nii wa Kekati	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 W
20	Basic insulation is not short-circuited	murr mer mer an	Р
WALTER	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	MALIER WALTER WALTER	Р

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	A	V	K
S.		V	,

- 4/1	EN 60335-1		21, 71,
Clause	Requirement – Test	Result – Remark	Verdict
All Co.	Temperature of the winding not exceeding the value specified in table 8,	MUSTER MUSTER MUSTER	P
Mr. M	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	AUTIE MULLE MULL MU	N/A
18	ENDURANCE	ITEK STIEK MITER SMITE	N/A
ek mite	Requirements and tests are specified in part 2 when necessary	t to the tile	N/A
19	ABNORMAL OPERATION	245 241 20	P
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	MILIER WATER WATER OF	NET THE
24 30 Un 30	Electronic circuits so designed and applied that a fault will not render the appliance unsafe:	(see appended table)	Р
7. Mr.	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	TEX WATER WATER WATER	N/A
MULIE	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	Whitek Whitek Whiteh	N/A
energy of	if applicable, to the test of 19.5	White white white M	N/A
ALTEK WAS	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	AL MITEL WILL	N/A
EK WITE	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	The street	N/A
MULTER	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	WITE WITE WATER	NLTE WALTER
UNLTEX W	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	While multer multer and	N/A
ITER WAL	Appliances incorporating voltage selector switches subjected to the test of 19.15	TEX MILIER MILIER WALTE	N/A
y White	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	t nites initial whitest	N/A
, et	until steady conditions are established	71 × 24	et Pat
while w	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	MULTE MULTE MULTER OF	N/A
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0.85 times rated power input (W):	et stet nitet mitet	N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W)	Tet lifet with	N/A
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	Mr. Mr. Mr.	N/A

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CI	
W	
The White	
Verdict	
N/A	

, 71, ,	EN 60335-1	the the time of	an an
Clause	Requirement – Test	Result – Remark	Verdict
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	MULTER MULTER MULTER	N/A
itek wai	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	TEX MUTER MUTER MU	N/A
Whitek	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	MULTER WHITE WHITE	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	TEX STEX STEX	N/A
TEK MUTEK	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)	TEX WILLER WHITER WHITER	N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	itet sitet mitet	N/A
4	locking moving parts of other appliances		N/A
17. 11.0	Locked rotor, capacitors open-circuited one at a time	THE SINITE WE	N/A
EK MITE	Test repeated with capacitors short-circuited one at a time, unless	The state of the s	N/A
	the capacitor is of class S2 or S3 of IEC 60252-1	74. 74. 74	N/A
White .	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	White white white	N/A
iler mi	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	TEK WALTER WALTER WA	N/A
WALTER	Other appliances supplied with rated voltage for a period as specified	t united whited white	N/A
NACTER	Winding temperatures not exceeding values specified in Table 8	TEX SITEX WITEX	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	all the state	N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	ek une me m	N/A
	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	MULTER MULTER	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
WELL .	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):	UNLIE WHILE WHILE WHILE	N/A
ite mi	During the test, parts not being ejected from the appliance	LIER WALLER WHILE WHILE W	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	MALIER WHITER WHITER WAS	P.L.
MUC.	they comply with the conditions specified in 19.11.1	INITER WALL WALL WALL	N/A
ivriek Ail	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	NITER WRITER WHITER	N/A
TER WIT	restarting does not result in a hazard	et tet tet stet stet o	N/A
* WHITE	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	MULTER WHITER WHITER WHITE	N/A
WALTER WAS	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	Whitek whitek white white	MA P
st si	During and after each test the following is checked:		P
wir	- the temperature of the windings do not exceed the values specified in table 8	E WHITE MALL WALL VAN	Р
White	- the appliance complies with the conditions specified in 19.13	WHITEK MILEK MILE MILE	P
WALTER ON	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	TITES WHITES WHITES	Р
TEX WILL	If a conductor of a printed board becomes open-circuit to have withstood the particular test, provided both of met:		N/A
ek walie	- the base material of the printed circuit board withstands the test of Annex E	MULTER WALTER WALTER WAL	N/A
Whitek o	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	united united united united	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
t TEX	- 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	t et et un	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
MULIER M	- 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	MILIER MILIER MILIER MILIER	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		LIFE P N
EX WALTER	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	A MILIER MILIER MILIER MIL	P
DLIE	b) open circuit at the terminals of any component	THE THE STEE WITE	Р
- ° ' ' ' '	c) short circuit of capacitors, unless	Mr. M. M.	Р
WILL CAL	they comply with IEC 60384-14	THE STIFF STIFF SMITE	N/A
ITEK INIT	d) short circuit of any two terminals of an electronic component, other than integrated circuits.	at the tab state of	TEKP NO
y Jiek	This fault condition is not applied between the two circuits of an optocoupler	- At At At 3	P
1,	e) failure of triacs in the diode mode	mer me me m	N/A
ILLIE .	f) failure of an integrated circuit	tet tet stet site	Ρ
200	g) failure of an electronic power switching device	an my	Р
NITE WITE	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	The little white w	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	WITE WILLS WALLEY WALL	P
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	THE STORE WITH SHITER	N/A
	a device that can be placed in the stand-by mode		N/A
EX VILER	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	ter unit unit unit of	N/A
WALTER V	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	and	N/A
iek mil	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena	est fet stet stet o	N/A
, ,Ł	Surge protective devices disconnected, unless	my my my	N/A
100	They incorporate spark gaps	- let tet the sil	N/A

ite alle	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdic
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	While while while	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified	The mility mility and	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	A MILIER MILIER MILIE	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	WALTER WALTER WALTER	N/A
in an	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	NITE WALTER WALLE ON	N/A
in Mili	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	TEK WILLER WILLER WILL	N/A
WILLER	Earthed heating elements in class I appliances disconnected	MITEL MAITER MALTER	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	STEP SLIER MITER	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	Et Whitet wi	N/A
EK 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	E WALTE WALTER WALTE	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	WHITEK WHITEK WHITE	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	Nites whites whites whi	N/A
ik Tillik	The appliance continues to operate normally, or	t at at all	N/A
70	requires a manual operation to restart	Mer Aug Mus	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)	MILIER WALTER WALTER	P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	ex white white whi	un Pi

Р

(see appended table)

Temperature rises not exceeding the values shown

in Table 9:

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Clause	Requirement – Test	Result – Remark	Verdict	
· Julie	THE	- the tell till the	and the	
	Compliance with clause 8 not impaired	any any any an	Р	
our ^{liter} ou	If the appliance can still be operated it complies with 20.2	RUTER WRITER WRITER WRITER	N/A	
LIEK WAL	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tes specified in table 4:		P	
ER JULIE	- basic insulation (V)	1000	P	
	- supplementary insulation (V)	1750	Р	
THE S	- reinforced insulation (V):	3000	Р	
nliek w	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	NITER WHITER WHITER WHITER	N/A	
e liet	The appliance does not undergo a dangerous malfunction, and	t at let let it	P	
7.E.Jr	no failure of protective electronic circuits, if the appliance is still operable	whit was an all	Р	
Mr. M	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	N/A	
VIII WILL	- do not become operational, or	At Court white	N/A	
EK WALTE	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	and the motified metrick and	N/A	
WALTER.	If the appliance contains lids or doors that are control one of the interlocks may be released provided that:	illed by one or more interlocks,	N/A	
NUTER AL	- the lid or door does not move automatically to an open position when the interlock is released, and	THE SLIER WIET WITH	N/A	
ITEX MIT	- the appliance does not start after the cycle in which the interlock was released	ret ret ret stret stret o	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	t with white white whi	N/A	
. NALTEK	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	ifet lifet outet mile	N/A	
NLTEX WA	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	STEET MILIER WALTER WALTER	N/A	
TEK WALTE	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	et alter outer materials	N/A	
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	SLIET WILLER WALTER WALT	N/A	

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TEN INLT		EN 60335-1	
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Nequilement – Test	Result – Remark	Verdict
	with the me me and	L St St St	City Orling
20	STABILITY AND MECHANICAL HAZARDS	were were any a	Р
20.1	Appliances having adequate stability	LEK LIEK LIEK N	P
direk unti	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	TEX MULTER MULTER MULTE	P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	A ANTIER WHITER MILIER	N/A
White	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	Whitek Multer Whitek W	N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	No moving part	N/A
IIE MALE	Protective enclosures, guards and similar parts are non-detachable, and	TEX WHITEK WHITEK WHITE	N/A
K STEE	have adequate mechanical strength	- of let get	N/A
TO TO	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	Mur. Mur. My	N/A
VILLER OUT	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	unit unit unit un	N/A
EF TE	Not possible to touch dangerous moving parts with the test probe described	The state of the s	N/A
21	MECHANICAL STRENGTH	in min min min	Р
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	WILLER MATER MATER W	P. P.
antitek an	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)	P N
it lik	The appliance shows no damage impairing compliance with this standard, and	The man wat with	P
Mer	compliance with 8.1, 15.1 and clause 29 not impaired	MILLE MALLE MALL	Р
Will a	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	MALTER MALTER MALTER M	N/A
ULLER AND	If necessary, repetition of groups of three blows on a new sample	STEK WHITEK WHITEK WHI	N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	et alter alter mater	White Phil
WALTER.	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	MULTER WHITER WHITER	nit Pres

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1 10	EN 60335-1	the the time the	are are
Clause	Requirement – Test	Result – Remark	Verdict
N. I.	The insulation is tested as specified, and does withstand the electric strength test of 16.3	Militarity Militarity Militarity	N/A
22	CONSTRUCTION	aliter while while while	UIII P
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:	nnection from the supply being	N/A
LITER	- a supply cord fitted with a plug, or	Not stationary appliance	N/A
2, ,	- a switch complying with 24.3, or	Mr. Mr. Mr. An	N/A
uniter un	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	NUTER WHITE WHITE WAITER	N/A
CL AVE	- an appliance inlet	THE RITER WITE WHITE WA	N/A
H JUNLIER	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	Whitek whitek whitek whitek	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	THE STEEL STEEL	N/A
	Applied torque not exceeding 0.25 Nm	2 10 20 20 2	N/A
SE WALTE	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	TEK TEK MITER MINITER MINI	N/A
SLIFEK II	Each pin subjected to a torque of 0.4 Nm; the pins are not rotating, unless	the tel tel state	N/A
so so	rotating does not impair compliance with this standard	increases and an extension	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	te mit mit mit m	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 $0.1\mu F$, the appliance being disconnected from the supply at the instant of voltage peak	MULTER MULTER MULTER	PEK
1. 20.	Voltage not exceeding 34 V (V):	Max. 32V measured	Р
TER WALTE	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
MUL	The discharge test is then repeated three times, voltage not exceeding 34 V (V)	MILIER WILLE MILLE WILL	N/A

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Clause	Requirement – Test	Result – Remark	Verdict	
11/1/2	with the me me me	the title the title	100	
22.6	Electrical insulation not affected by condensing water or leaking liquid	Mer Mer Mer The	N/A	
	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak	unite unit unit unit	N/A	
التأثر بمهاد	In case of doubt, test as described	TEX SLIEK WITER WALTER W	N/A	
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	* whilek unliket whilek whi	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	WHITEK WHITEK WHITEK	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	P	
بار ب	the substance has adequate insulating properties	111 111	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	
NITEH WA	- a non-self-resetting thermal cut-out is required by the standard, and	at a sailer miles	N/A	
SEE STE	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A	
t Tex	Non-self-resetting thermal motor protectors have a trip-free action, unless	Aug aug aug and	N/A	
2/2	they are voltage maintained	white wall wall was	N/A	
Writer M	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	NATER WHITER WHITER	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	TEX WALTER WALTER WALTER W	Puri	
21/2	Obvious locked position of snap-in devices used for fixing such parts	MULTE MILL MILL MILL	N/A	
Whi. A	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	MULTER MULTER MULTER WALLER	N/A	
1. 20,	Tests as described	50N, 10s applied on enclosure	Р	
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	EX WILEX WHILEX MILES W	N/A	
MULTER	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	MALIER WALTER WALTER	N/A	

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- and	EN 60335-1		ar ar
Clause	Requirement – Test	Result – Remark	Verdict
	with the the the	- A A ST	16 " " " (C) 1.
	A choking hazard does not apply to appliances for commercial use	were mer my me	N/A
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	untile motile must met	N/A
rite and	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	LIE WHITE WHITE WHITE	N/A
er white	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	Whitek whitek whiteh w	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	JUNITER 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	I FEE P
* WILLER	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	MILER WATER WATER	LIEV PER
22.15	Storage hooks and the like for flexible cords smooth and well rounded	LIER SLIER MALIER MALI	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	the funited writer	N/A
. The	Cord reel tested with 6000 operations, as specified	ET RITE WITH WALL IN	N/A
MALTER	Electric strength test of 16.3, voltage of 1000 V applied	THE LITTE MATER AND	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	A LA LA LA	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion	or on on other	P
22.19	Driving belts not relied upon to provide the required level of insulation, unless	and and an	N/A
m	constructed to prevent inappropriate replacement	MILL WILL WILL WILL	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	THE STEE WITER WITER	E PER
NITEK NI	material used is non-corrosive, non-hygroscopic and non-combustible	TER TER STER STER	P P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	No such materials used as insulation	FEL P
10,	impregnated	The Me Me 1	N/A
WALTER	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	WALTER WALTER WALTER WA	N/A

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Clause	Requirement – Test	Result – Remark	Verdict		
22.22	Appliances not containing asbestos	Not containing asbestos	Р		
22.23	Oils containing polychlorinated biphenyl (PCB) not used	Not such parts	Р		
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	TEX WHITEK WHITEK	N/A		
EK WALTE	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	Whitek whitek whiteh	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	let mure muret	P TEX MI		
22.27	Parts connected by protective impedance separated by double or reinforced insulation	United Militer Militer W	NI E WRITE		
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	United whited white	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	and the surfect	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 P		
Writek W	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	Nates united united unit	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	te white while whilet	N PU		
WALTER V	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		F STEET		
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	Et MILIER WALTER WALTER	P P		

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Clause	Requirement – Test	Result – Remark	Verdict
MULLER M	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	JALIER WHITER WHITER	N/A
LIEK WAY	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	TEX MITES MITES MI	N/A
WILL	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	White white white	N/A
Mr.	Oxygen bomb test at 70°C for 96 h and 16 h at room temperature	white with min	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
k Miliek	unearthed metal parts separated from live parts by basic insulation only	t jet sjet mje	N/A
	Electrodes not used for heating liquids	m m	N/A
MUNTY AND	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	WALLEY WALLEY WALLEY	N/A
I INLIE	the reinforced insulation consists of at least 3 layers		N/A
WALTER	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	WITE WILLEY WALEST	N/A
TEX	the reinforced insulation consists of at least 3 layers	a de de	N/A
itek wit	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	With Murra Murra A	N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	t ret ret ur	N/A
10	the shaft is not accessible when the part is removed	me me m	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	MALTER MALTER MALTER.	N/A
TEX WILL	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	Et whitet whitet whi	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
WALTER WAL	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	LEF STER STER OUT	N/A
ek white	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	A WILLER MUTER MUTER	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	Whitek whitek whitek whi	N/A
ITEH MAIT	they are separated from live parts by double or reinforced insulation	et tet tet stet	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
WILLE	the capacitors comply with 22.42	LIEF ALTER MITER AND	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	Lifet out	N/A
22.39	Lamp holders used only for the connection of lamps	No lamp holder	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	white white white	N/A
antiek au Erek anti	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	NLIER WHITER WHITER WHITER	N/A
22.41	No components, other than lamps, containing mercury	White White White	n' P
22.42	Protective impedance consisting of at least two separate components	Two Y capacitors used	II UNP
NLTEK WY	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		LINE W
TEK WALT	Resistors checked by the test of 14.1 a) in IEC 60065	et lifet slifet milet	N/A
t Jet	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Approved Y capacitors	THE PLEASE

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Clause	Requirement – Test	Result – Remark	Verdict
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 ITEMP
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	A MUTER WHITER WHITER WHI	EX MULT
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	JUNITER WHITE WHITE WHITE	N/A
LEE WALL	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	LEX MULTER MULTER MULTER OUT	N/A
WILL	These requirements are not applicable to software used for functional purpose or compliance with clause 11	White white white whi	N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use.	with mit and my	N/A
VII. MU	No leakage from any part, including any inlet water hose	The Marie Author	N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non potable water	MULTE WALLE WALLE WAS	N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	WHITE WALL WALL WALL	N/A
Write M	the appliance switches off automatically or can operate continuously without hazard	NITE WAITE WALTER WALE	N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	TEK WALTER WALTER WALTER OF	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	t maitet waitet water wat	N/A
WILLER	There is a visual indication showing that the appliance is adjusted for remote operation	WALTER WALTER WALTER WALTER	N/A
NLTEK WY	These requirements not necessary on appliances that giving rise to a hazard:	t can operate as follows, without	N/A
TEN IT	- continuously, or	at the late late	N/A
71/2	- automatically, or	Auri Auri Auri Au	N/A
t the	- remotely	- A B B S	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
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	JUNIOR WAITE WATER	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	TEX MULTER MULTER MU	N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	A MULTER MULTER MULT	N/A
White.	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	MULTER MULTER WHITER	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:	ALTER WHITE WHITE WAS	N/A
y Mairey	The requirement concerning position does not preclude use of a push on push off switch	t light wright wright	N/A
	An indication when the device has been operated is	given by:	N/A
aneth a	tactile feedback from the actuator or from the appliance, or	WALLER WHILE WHILE A	N/A
NITE MAI	- reduction in heat output; or	ALL STREET OF	N/A
A .0	– audible and visible feedback		N/A
22.56	Detachable power supply part provided with the part of class III construction	WALTE WALTER WALE	N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T	WALTER WALTER WALTER	N/A
מוני. מו	This requirement does not apply to glass, ceramics or similar materials	MITER WALLE WALL W	N/A
23	INTERNAL WIRING	THE LITTER WITTER WIT	P
23.1	Wireways smooth and free from sharp edges	20, 2	P
MUL	Wires protected against contact with burrs, cooling fins etc.	MALIE WALTE WAL	P P
MULTE	Wire holes in metal well rounded or provided with bushings	MALTER WALTER WALTER	N/A
ULLER AND	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	Et still milet mil	N/A
t JEX	Beads inside flexible metal conduits contained within an insulating sleeve	at let let	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	No movable conductors	N/A
er er	Flexible metallic tubes not causing damage to insulation of conductors	at let let the	N/A
- "	Open-coil springs not used	in mer me me	N/A
WALTE	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	of whitek united whiteh	N/A
WALTER	No damage after 10 000 flexings for conductors flexed during normal use or	TITLE MITTER WHITER WIT	N/A
nliek w	100 flexings for conductors flexed during user maintenance	THE SLIET MITER MILIT	N/A
TEK MIT	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	et tet itet vitet	N/A
t Jet	Not more than 10% of the strands of any conductor broken, and	The the test	N/A
'Ek	not more than 30% for wiring supplying circuits that consume no more than 15W	Murr Mur M	N/A
23.4	Bare internal wiring sufficiently rigid and fixed	mite unite military	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	antifek white	P N
er white	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	WALTE WALTER	N/A
VINT.	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	Р
iek miz	For class II construction, the requirements for supplementary insulation and reinforced insulation apply, except	TEX STEX STEX STEX	N/A
ek mitek	that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation	t tet tet stet	N/A
JE#	A single layer of internal wiring insulation does not provide reinforced insulation	THE THE THE	N/A
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	unit unit unit un	N/A
IER STR	be such that it can only be removed by breaking or cutting	of the top top	N/A
23.7	The colour combination green/yellow used only for earthing conductors	Class II	N/A
23.8	Aluminium wires not used for internal wiring	Not used	N. A.b.

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	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	Not subject to contact pressure	P
	the contact pressure is provided by spring terminals	n n n	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)	TEX MILIER WHITE WHITE WAS	N/A
24	COMPONENTS	· The street outlier and the	P
24.1	Components comply with safety requirements in relevant IEC standards	AND THE TEXT TEXT	P.
, 2,	List of components:	(see appended table)	Р
TERVINIT	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	lex writer writer writer w	N/A
t SITER	Relays tested as part of the appliance, or	t at let get is	N/A
16th	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	Anti Ant An An	N/A
JITEK MI	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	unite with with with	WA P
ek white	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	and the state of t	P
MALTER	30.2 of this standard apply to parts of non-metallic material in components including parts of non metallic material supporting current-carrying connections	MALIER WALLER WALLER	P
Tex Mrt	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	n 20 20	Mr. P
MULIER MULIER	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	AND TEX MATER MALTER MALE	EX PLT
NLTEX NY	If these conditions are not satisfied, the component is tested as part of the appliance.	cet tet tret witet	P
TEK MULT	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	EX WILEY WILEY WILLEY	N/A
WALTER	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 24.1.1 to 24.1.9	MULTER MULTER MULTER WALL	F P.E

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Clause	Requirement – Test	Result – Remark	Verdict
Whitek W	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	JULIE AND THE AND THE AND THE	P
ek vite	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	TEX UNLIER WHITEK WHITEK	P
MATER ON	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	while while while while	N/A
iiek _w nii	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	LEX MULTER MULTER WATER W	P
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference	Approved	Р

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1. "	EN 6033	35-1	the the time of	The same
Clause	Requirement – Test		Result – Remark	Verdict
ALL TAN	- voltage-maintained non-self-resetting thermal cut-outs	1 000	untit united united	N/A
ال شاران	- other non-self-resetting thermal cut-outs	30	OLITE WALTE WALTER	N/A
16th 3	- timers:	3 000		N/A
er an	- energy regulators:	10 000	The Write Mus Mu	N/A
EK WITE VINITE	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		H WHITEH WHITE WHITE	N/A
unitek an	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D.		LIET WIFE MILES	N/A
itek _w nitek	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection provided by enclosures against harmful ingress of water declared for subclause 6.5.2 of IEC 60730-2-8 shall be IPX7		LEK WHITEK WHITEK WHITEK	N/A
WILLER O	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		WILLER WILLER WILLER	N/A
24.1.5	Appliance couplers complying with IEC 603.	20-1	Approved	LIFE NUT P.W
IEK WALTE	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		Juli varit varit	N/A
WALTER	Interconnection couplers complying with IEC 60320-2-2		ALIEK MITER MATER	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		TER MUTER MUTER MU	N/A
24.1.8	The relevant standard for thermal links is IE	C 60691	Mr. Mr. M.	N/A
WHITE V	Thermal links not complying with IEC 60691 considered to be an intentionally weak part purposes of Clause 19		WALTER WALTER WALTER	N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		ELTER WALTE WALL ON	N/A
	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:		ek meitek meitek meitek	N/A
24.2	Appliances not fitted with:	In.	24, 20, 2,	L Pt

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EN 60335-1					
Clause	Requirement – Test	Result – Remark	Verdict		
Mrite.	- switches, automatic controls or power supplies in flexible cords	while while white	P		
unt w	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	Intitle Military	TEX STEX IN		
et .(e)	- thermal cut-outs that can be reset by soldering, unless	it with the on	P		
2/1	the solder has a melding point of at least 230 °C	White white whi	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	Whitek Whitek Whitek	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	EX WALTER WALTER WALTER	N/A		
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	united whited whiteh	N/A		
iek mute	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		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	NITE WAITE WALLE OF	N/A		
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	TEK WILLER WILLER WILL	N/A		
	They are supplied with the appliance	t TEX TEX SITE	N/A		
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	STEEL WELLS	N/A		
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	sifet whilet whilet w	N/A		
	One or more of the following conditions are to be me	et: muit muit mai	N/A		
	- the capacitors are of class S2 or S3 according to IEC 60252-1;	- STEK OLITEK OLITEK	N/A		

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Clause	Requirement – Test	Result – Remark	Verdict
ALLEY.	- the capacitors are housed within a metallic or ceramic enclosure	MUST ANTE MUST ANTE	N/A
we w	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	WILL MULL AUTH MULL	N/A
Tip m	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	STEEL WALTER WALTER WALTER OF	N/A
er walte	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	A WHITEH WHITEH WHITEH WHI	N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE	E CORDS	P
25.1	Appliance not intended for permanent connection to connection to the supply:	fixed wiring, means for	Р
	- 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;	wite white white wifes a	N/A
k mutiek	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	t wifet wifet writer whi	Р
, et	- pins for insertion into socket-outlets	The state of the s	N/A
25.2	Appliance not provided with more than one means of connection to the supply mains	White Mile Mile Will	WP P
PER MUTE	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	THE WALLEY WALLEY WAS	N/A
25.3	Appliance intended to be permanently connected to f the following means for connection to the supply mai		N/A
Writer W	- a set of terminals allowing the connection of a flexible cord	NUTER WHITER WHITER	N/A
det s	- a fitted supply cord		N/A
	- a set of supply leads accommodated in a suitable compartment	The water water with w	N/A
WALTER	- 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	WALTER WALTER WALTER WALTER	N/A
NITE WALLE	- 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	EX WALTER WALTER WALTER	N/A

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
white w	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	MALIER MALIER MALIER	N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to Table 10 (mm)	the white with the a	N/A
MALTER	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in Clause 29	THE MITER WITER MITTER	N/A
25.5	Method for assemble supply cord with the appliance	The The Table	N/A
no in	- type X attachment	NITER WALL WALL WALL	N/A
de d	- type Y attachment	s at at at	N/A
71/2	- type Z attachment, if allowed in part 2	in with mir me m	N/A
MULLER	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	- TITEL MILIER WILLER WILL	N/A
WALTER V	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	Whitek whitek whitek	N/A
25.6	Plugs fitted with only one flexible cord	The me of	N/A
25.7	Supply cords, other than for class III appliances, being	ng one of the following types:	N/A
20	- rubber sheathed (at least 60245 IEC 53)	mi me m	N/A
RUTER	- polychloroprene sheathed (at least 60245 IEC 57)	TEX TEX STEX SUITE	N/A
TEX.	- polyvinyl chloride sheathed. Not used if they are like temperature rise exceeding 75 K during the test of cl		N/A
11. 11.	light polyvinyl chloride sheathed cord (60227)	with the the	N/A

IEC 52), for appliances not exceeding 3 kg ordinary polyvinyl chloride sheathed cord

- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than

(60227 IEC 53), for other appliances

heat-resistant light polyvinyl chloride

heat-resistant polyvinyl chloride sheathed

cord (60227 IEC 57), for other appliances

Light duty halogen-free low smoke flexible

cable (62821 IEC 101) for circular cable and

- halogen-free, low smoke, thermoplastic insulated and sheathed

sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg

(62821 IEC 101f) for flat cable

N/A

N/A

N/A

N/A

N/A

N/A

specially prepared cords

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Clause	Requirement – Test	Result – Remark	Verdict
WILLER ON	Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable	JUNE WILL WILL WILL	N/A
LIEF W	Supply cords for class III appliances adequately insulated	or an an	N/A
EK JE	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	t at at the	N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²)	TEX TEX STEX	N/A
25.9	Supply cord not in contact with sharp points or edges	m m m	N/A
25.10	Supply cord of class I appliances have a green/yellow core for earthing	ALTER MALTER MALTER W	N/A
LIER WALT	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.	iek whitek whitek whi	N/A
it liter	Where additional neutral conductors are provided in	the supply cord:	N/A
The Take	other colours may be used for these additional neutral conductors;	white whe will	N/A
JUNE V	 all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 	unite white white	N/A
. 2	- the supply cord is fitted to the appliance	- 2 - 2n - 2n	N/A
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless	White White white	N/A
and .	the contact pressure is provided by spring terminals	MALTE MALTE WALL	N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	TIET STIET WITH	N/A
25.13	Inlet opening so shaped as to prevent damage to the supply cord	ret set siet ei	N/A
EX WILLEY	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	ANNETER WHETER WHITE	N/A
MILLE	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	MILIER WILLER WILLER	N/A
alter an	class 0, or	Let Let Jet .	N/A
	a class III appliance not containing live parts	in the me	N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing	ex writer writer writ	N/A
t outet	Flexing test, as described:	t the the the	N/A
200	- applied force (N)	They are an	N/A

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il anti	EN 60335-1	CENT TEN TEN TE	inlit and
Clause	Requirement – Test	Result – Remark	Verdict
111/12	- number of flexings:	MINT WILL WATER	N/A
JEE	The test does not result in:	at alt alt	N/A
TER S	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	mer was met w	N/A
* 'n	- breakage of more than 10% of the strands of any conductor	The mile mile mile	N/A
arr	- separation of the conductor from its terminal	A WILLE NOTE MILLE	N/A
- LEA	- loosening of any cord guard	1 11 11	N/A
m.	- damage to the cord or the cord guard	White white white	N/A
nliek on	- broken strands piercing the insulation and becoming accessible	ALTER MATER MATER WA	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	LEK WALTER WALTER	N/A
MALTER V	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	WILE WILE WILES	N/A
JEH J	Pull and torque test of supply cord:	A CONTRACT OF	N/A
EH . 16	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	of the sur	N/A
	- other appliances: values shown in Table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	White whit whi	N/A
TEX	Cord not damaged and max. 2 mm displacement of the cord	Aut au au	N/A
25.16	Cord anchorages for type X attachments constructed	d and located so that:	N/A
ser al	- replacement of the cord is easily possible	at the title it	N/A
it The	- it is clear how the relief from strain and the prevention of twisting are obtained	THE THE THE	N/A
10.	- they are suitable for different types of supply cord;	White white white	N/A
WALTER V	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	NITER WILLER WHITER	N/A
	they are separated from accessible metal parts by supplementary insulation	TEX TIEX DITEX AN	N/A
SEX BILL	- the cord is not clamped by a metal screw which bears directly on the cord	et let jet sit	N/A
t TEX	- at least one part of the cord anchorage securely fixed to the appliance, unless	Me we we	N/A
211.	it is part of a specially prepared cord	WHILE MALL MALL	N/A

16th 25	EN 60335-1	it it the det	Lite Ni
Clause	Requirement – Test	Result – Remark	Verdict
AN CLE	- screws which have to be operated when replacing the cord do not fix any other component, if applicable	MILES WALES WITTER	N/A
Mr. M	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	Write Muric Muric Mus	N/A
Tile Mu	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	LIER WHITE WHITE WHITE	N/A
LEK WUTE	- for Class 0, 0I and I appliances: they are of insulating material or are provided with an insulating lining, unless	Whitek whitek whitek	N/A
MUE.	failure of the insulation of the cord does not make accessible metal parts live	White White White wh	N/A
Write M	- for Class II appliances: they are of insulating material, or	NITER WILLER WHITE WILL	N/A
ITEK WALT	if of metal, they are insulated from accessible metal parts by supplementary insulation	FER MITER MITER WHITE	N/A
MULLER	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	white antiet whitek w	N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	UNITER WHITER WHITER WHI	N/A
25.18	Cord anchorages only accessible with the aid of a tool, or	anti with	N/A
IL WILL	so constructed that the cord can only be fitted with the aid of a tool	White white white	N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	MITES MALTER WALTER WA	N/A
NATEK W	Tying the cord into a knot or tying the cord with string not used	THE MITTER MITTER MANY	N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	tet tet tiet stet	N/A
25.21	Space for supply cord for type X attachment or for coconstructed:	onnection of fixed wiring	N/A

N/A

N/A

N/A

N/A

Appliance inlet:

cover

25.22

- to permit checking of conductors with respect to

correct positioning and connection before fitting any

- so there is no risk of damage to the conductors or

- 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 2 N test to the conductor for portable appliances; no

their insulation when fitting the cover

contact with accessible metal parts

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Clause	Requirement – Test	Result – Remark	Verdict
All CL	- live parts not accessible during insertion or removal	WATER WATER	N/A
WALTER W	Requirement not applicable to appliance inlets complying with IEC 60320-1	OLIER MITER WALTER	INTER WILLE
At i	- connector can be inserted without difficulty		A CEP
. w	- the appliance is not supported by the connector	The Will My My	P
EK WALTE	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless	et mitelt anitelt white	N/A
- JEX	the supply cord is not likely to touch such metal parts	a de de	N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	Output cord	W P
unir vil	the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	ALTER MALIE WALLE W	P
	- the thickness of the insulation may be reduced	in with any any	Р
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 whiteh	White Pic
20	If necessary, electric strength test of 16.3	an my	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	THE MATTER WA	N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	white white whi	N/A
MULIEK M	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	THE STILL WILL IN	N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS	n 20 2	N/A
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	te unite unit unit	N/A
AND THE	Terminals only accessible after removal of a non-detachable cover, except	Mer Aug Au	N/A
me !	for class III appliances that do not contain live parts	WHILE WHILE WHE.	N/A
IN ^{LIEK} WI TEK LI	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	stiek whitek whitek wh	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	Whitek whitek whitek	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
Clades	utt utt utt utt	t at at Ant	CIE ALI
211	the connections are soldered	MILL MILL MILL M	N/A
nn ^{eter} n	Screws and nuts serve only to clamp supply conductors, except	milet whilet whilet wh	N/A
ITEK WA	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	TEX WATER WHITER WAITE	N/A
er white	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	Whitek whitek	N/A
WILER AN	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	White Muter Muter and	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	TER WHITER WHITER WHITER	N/A
WITER .	Terminals fixed so that when the clamping means is	tightened or loosened:	N/A
	- the terminal does not become loosen	m m m	N/A
المالي	- internal wiring is not subjected to stress	ALL MITTER MILIT	N/A
EK MITE	- neither clearances nor creepage distances are reduced below the values in Clause 29	The little	N/A
WALTER	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)	MULTER MULTER MULTER	N/A
Wite of	No deep or sharp indentations of the conductors	TEX LIER SITES ON	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	TEX MUTEX MUTEX MUTER	N/A

N/A

N/A

N/A

N/A

tightened

parts and,

26.5

of cable lugs, eyelets or similar, and

parts that result in a hazard

so constructed or placed that conductors prevented

from slipping out when clamping screws or nuts are

Stranded conductor test, 8 mm insulation removed

No contact between live parts and accessible metal

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

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Clause	Requirement – Test	Result – Remark	Verdict
ANTER ANTER	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	White white white	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 (mm²)	TEX MUTEL MUTER OUT	N/A
- TEX	If a specially prepared cord is used, terminals need only be suitable for that cord	Mr. Mr. M.	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 man man	N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	PER WITTER WITTER WIT	N/A
26.9	Terminals of the pillar type constructed and located as specified	t jiet sliet miel	N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	et tet tet	N/A
The second	conductors ends fitted with a device suitable for screw terminals	are who was	N/A
10	Pull test of 5 N to the connection	and the sale	N/A
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used	E MITE WALLY	N/A
MALTER	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	WILLIER WALTER WILLIER	N/A
antifer w	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	Nated Whitek Whitek W	N/A
27	PROVISION FOR EARTHING	at the tile	N/A
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	TEX NUTEX INTEX	N/A
CLIEK OF	Earthing terminals and earthing contacts not connected to the neutral terminal	all the little	N/A
16k (1	Class 0, II and III appliances have no provision for earthing	Class II	P
t let	Class II appliances and class III appliances can incorporate an earth for functional purposes	Mary mary mary	N/A
Mer	Safety extra-low voltage circuits not earthed, unless	INLIE WALTE WALTE	N/A
¢	protective extra-low voltage circuits	- L - A	N/A

EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict	
27.2	Clamping means adequately secured against accidental loosening	MULLER MULLER MULTER	N/A	
UND W	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	untile unit unit o	N/A	
et de	do not provide earthing continuity between ifferent parts of the appliance, and	it with the the	N/A	
- Ch	conductors cannot be loosened without the aid of tool	white milk with	N/A	
MUL.	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	White white white	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	LEX MUTER MUTER MUTE	N/A	
MAL	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	WHITE WILL WILL	N/A	
ULIEK WA	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	of my sure and	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	interpretation	N/A	
MILITER	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	Whitek Whitek Whitek	N/A	
MULTER W	If of steel, these parts provided with an electroplated coating with a thickness at least 5 μm	ALTER WALTER WALTER W	N/A	
iter mi	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	TEK WALTER WALTER WAL	N/A	
MUL	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	
NITEK NO	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	unit unit was .	N/A	
27.5	Low resistance of connection between earthing terminal and earthed metal parts	- 111 211 211 211	N/A	

N/A

appliance

terminal and earthed metal parts

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

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Clause	Requirement – Test	Result – Remark	Verdic
MATER N	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	White white white	N/A
TEX ST	Resistance not exceeding 0.1 Ω at the specified low-resistance test (Ω)	it it it it	N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances.	et one while with	N/A
Whitek.	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	MULTER MULTER MULTER WILLER	N/A
in ^{es} vir	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	ALTER MALTE WALL WILL	N/A
28	SCREWS AND CONNECTIONS	in the the sh	Р
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	Whitek whitek whitek whi	Р
ancia a	Screws not of soft metal liable to creep, such as zinc or aluminium	WILLER WILLE WILL WILL	JIP P
NITE WY	Diameter of screws of insulating material min. 3 mm	ALL MITE INTE	N/A
EK WALTE	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	Just while while	N/A
WALTER	Screws used for electrical connections or connections providing earthing continuity screw into metal	WALTER WALTER WALTER	N/A
in Tier W	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	NITER WALTER WALTER WALTER	N/A
ek 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	TER WILLE WILLE WILLES	N/A
MALTER	For screws and nuts; torque-test as specified in Table 14	THE STATE STEEL SHITE	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	STEE WALTER WALTER	N/A
t TEX	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	ex uniter uniter uniter un	N/A
2/h	This requirement does not apply to electrical connect which:	tions in circuits of appliances for	N/A

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1. "	EN 60335-1	Vr. "AV
Clause	Requirement – Test Result – Remark	Verdic
The state of	nit mi with an in the state of	E SOLL
	30.2.2 is applicable and that carry a current not exceeding 0.5 A	N/A
ing in	30.2.3 is applicable and that carry a current not exceeding 0.2 A	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	N/A
WALTER.	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	N/A
VIZEK AL	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	N/A
TEK WALT	Thread-cutting, thread rolling and space threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection:	N/A
	- in normal use,	N/A
	- during user maintenance,	N/A
Mr. 1	- when replacing a supply cord having a type X attachment, or	N/A
LIFE ON	- during installation	N/A
EK JIE	At least two screws being used for each connection providing earthing continuity, unless	N/A
- 164 - 10	the screw forms a thread having a length of at least half the diameter of the screw	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	N/A
TEK WIT	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	N/A
+ 25	if an alternative earthing circuit is provided	N/A
WALE A	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION	Р
LIER WY	Clearances, creepage distances and solid insulation withstand electrical stress	ni P
TEK WALTE	For coatings used on printed circuits boards to protect the microenvironment (type 1) or to provide basic insulation (type 2), Annex J applies:	N/A
MULTE	The microenvironment is pollution degree 1 under type 1 protection	N/A

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Claves	Deguinement Test	Decult Devector	Mandiat
Clause	Requirement – Test	Result – Remark	Verdict
WILLER OF	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	MUTER MUTER MUTER AND	N/A
NITER WAT	These values apply to functional, basic, supplementary and reinforced insulation	TEX UNITER WHITER WHITE	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.C
7112	for basic insulation and functional insulation they comply with the impulse voltage test of Clause 14	MULL MUT MUT A	N/A
uni wi	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	NITE WHITE WHITE WHITE	W P W
antiek antiek	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	TEK TIEK WITER WITER	N/A
, t	Impulse voltage test is not applicable:	41 41	N/A
VII. MU	- when the microenvironment is pollution degree 3, or	The White White	N/A
ie white	- for basic insulation of class 0 and class 0I appliances, or	EL WALTER WALTER WALTER	N/A
WILLER	- to appliances intended for use at altitudes exceeding 2 000 m	THE MALTER WALTER	N/A
Tex	Appliances are in overvoltage category II	at at at .	CF CP
St 1	A force of 2 N is applied to bare conductors, other than heating elements	Will Muli and an	Р
r. mr	A force of 30 N is applied to accessible surfaces	TER WITE WALL WALL	P.I.
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	t whitek whitek whitek	wat of Pitt
MALTER	The values of Table 16 or the impulse voltage test of Clause 14 are applicable	(see appended table)	LT P
nlifek wh	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1.0 mm if the microenvironment is pollution degree 1	TITEE MALTEE MALTEE MALE	N/A
ITER WALT	Lacquered conductors of windings considered to be bare conductors	ex white white white	P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in Table 16	(see appended table)	INITE INPER

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
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
EX MULTER	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	TEX WHITEK WHITEK WHITEK	LITE POUT
29.1.4	Clearances for functional insulation are the largest va	alues determined from:	Р
111, 1	- Table 16 based on the rated impulse voltage:	(see appended table)	Р
iv _{ezer} an	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	NUTER WHITER WHITER	N/A
TEK WALT	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	SEX WITER WITER WITER ON	THE P
k mliek	If values of Table 16 are largest, the impulse voltage test of Clause 14 may be applied instead, unless	t get stet stet ski	P
	the microenvironment is pollution degree 3, or	me me me	N/A
MULTER A	the distances can be affected by wear, distortion, movement of the parts or during assembly	MALIER WALTER WALTER WALTER	N/A
NITER WA	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	Р
on the	Lacquered conductors of windings considered to be bare conductors	AND AND MULTINAL	Р
WILTE.	However, clearances at crossover points are not measured	Whitek whitek white white	Р
UNLTEK W	Clearance between surfaces of PTC heating elements may be reduced to 1mm	NATER MILIER MATER MATER	N/A
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	LIE P
st Lit	- Table 16 based on the rated impulse voltage:	n 2 1	L P
me	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	white white white wh	N/A
WHITE V	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	WALTER WHITE WHITE WHITE	P
Villey Alv	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	Et jet liet whilet	Р

TER OUT	EN 60335-1	IN THE SET SET	Will Will
Clause	Requirement – Test	Result – Remark	Verdict
	matt gatt and was and	at the state	CIE WILL
whitek 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	united anited anited an	N/A
ek write ek	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	ter white white whites	un Pul
WINTER OF	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	Whitek whitek whitek w	N/A
iter white	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	FER THE WILLER	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)	TEX PARTIES
LEK .	Pollution degree 2 applies, unless		y OP
74 - 74 V	- precautions taken to protect the insulation; pollution degree 1;	A MULL MULL	N/A
i whi	- insulation subjected to conductive pollution; pollution degree 3	white waits while	N/A
MALIE	A force of 2 N is applied to bare conductors, other than heating elements	WHITEK WHITEK WHITEK W	Р
	A force of 30 N is applied to accessible surfaces	let let let si	P
irek _{van} r	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	TER MUTER MUTER MUTE	P
29.2.1	Creepage distances of basic insulation not less than specified in Table 17:	(see appended table)	P
WALTER .	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	Whitek whitek whitek w	N/A

N/A

the values in Table 17.....

clearance has been checked according to the test of Clause 14.....:

Except for pollution degree 1, corresponding creepage distance not less than the minimum

specified for the clearance in Table 16, if the

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Clause	Requirement – Test	Result – Remark	Verdict
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in Table 17, or	(see appended table)	P
	Table 2 of IEC 60664-4, as applicable	10 21 21	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)	P
2/2	Table 2 of IEC 60664-4, as applicable:	while and any	N/A
29.2.4	Creepage distances of functional insulation not less than specified in Table 18	(see appended table)	LIF P
nitek va Tek	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	NUTER WHITER WHITER WHITE	N/A
* WALTER	Creepage distances may be reduced if the appliance complies with Clause 19 with the functional insulation short-circuited	MILIER WALTER WALTER	unit & Pre
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	WILLER MUTER MUTER MY	TEL NILPE
LITE AND	Compliance checked:	at the said	Р
4 /	- by measurement, in accordance with 29.3.1, or		Р
MULL	- by an electric strength test in accordance with 29.3.2, or	er white white white	P
White	- 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	Whitek Whitek Whitek W	N/A
TEK WILL	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	TEL MITEL MALTE	N/A
antiek	- 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	t whitet whitet whitet,	N/A
MITEK WIN	- 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	STEK WHITEK WHITEK	N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm	Et Milet Milet Milet	WALLER PAL
LILEY	Reinforced insulation have a thickness of at least 2 mm	- TEX TEX STEX	OLT PIE

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Clause	Requirement – Test	Result – Remark	Verdic
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	MUTTER MUTTER	Р
me w	Supplementary insulation consist of at least 2 layers	WITER WALLE WALLE MAL	ZIII P
All S	Reinforced insulation consist of at least 3 layers	a state of	Р
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	the man man and	N/A
'an'	the electric strength test of 16.3	A WILL WALL A	N/A
WALTER	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	JUNITER WHITER WHITER WA	P
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in Table 19	NITER WAITER WHITE WHITE	N/A
30	RESISTANCE TO HEAT AND FIRE	TER WILL MULL MULL	J P
30.1	External parts of non-metallic material,	and the state of	P
M	parts supporting live parts, and	White white white w	Р
WALTER O	thermoplastic material providing supplementary or reinforced insulation,	SLIEF WILET WILES WAT	EK PIK
dit :	sufficiently resistant to heat		P
in me	Ball-pressure test according to IEC 60695-10-2	White white	P
iek white Litek	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)	TE P
unitek ut	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 WALTER
ite vini ex virex	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)	TEK WALTER WALTER WALTER	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire	INLIER WHITER WHITER WH	IF UN P
STEX S	This requirement does not apply to:	at at at se	P
TEX MUTE TEX	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	EX WHITEX MAILEY WHITEX	P
MULTER	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	WHITEK WHITEK WHITEK	N/A

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Clause	Requirement – Test	Result – Remark	Verdic
Mich	Compliance checked by the test of 30.2.1, and in addition:	mill mile mile m	Р
unio u	- for attended appliances, 30.2.2 applies	RETER METER MILE MILE	N/A
Let &	- for unattended appliances, 30.2.3 applies	a at the left	P
	For appliances for remote operation, 30.2.3 applies	The MULT MULT MULT	N/A
ek wite	For base material of printed circuit boards, 30.2.4 applies	A CHILER MALIER MALIER OF	ni ili Pili
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)	IE PER
NITEK OU	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	NUTER WATER WALTER WALTE	N/A
TEK WALT	the material is classified at least HB40 according to IEC 60695-11-10	FEK MITEL WHITEK	N/A
MULTER	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Whitek Whitek Whitek W	N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	UNLIER WALTER WALTER WALT	N/A
res me	parts of non-metallic material within a distance of 3mm of such connections,	Mult with	N/A
MULT	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	E WHITE WHITE	N/A
WALTER	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	MUTER MALTER WALTER WA	N/A
Jet .	- 650 °C, for other connections	at at at s	N/A
	Glow-wire applied to an interposed shielding material, if relevant	ner was any on	N/A
r 24	The glow-wire test is not carried out on parts of mate glow-wire flammability index according to IEC 60695		N/A
MALI	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	MULTER WHITE WAITE W	N/A
MITE	- 650 °C, for other connections	THE LITER SLITER AND	N/A
,t	The glow-wire test is also not carried out on small pa	arts. These parts are to:	N/A
intitue on	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	HIER WHITE WHITE WHITE	N/A
E MIT	- comply with the needle-flame test of Annex E, or	Et JET JET WIET	N/A
- LIEK	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	The tip tip	N/A
70,	Glow-wire test not applicable to conditions as specified	Mer Mer Mer M	N/A

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	MUSTER MUSTER MUSTER MUSTER	P
one of	Test not applicable to conditions as specified	OUTER MILLER MILLER WALLE	N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0.2 A during normal operation, and	LEEK WHITEK WHITEK W	LITE P
MULLE	parts of non-metallic material, other than small parts, within a distance of 3 mm,	A MILITER MILITER MILITER MILITER MINI	P
MULLER AND	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table)	W PER
	Glow-wire applied to an interposed shielding material, if relevant	ited wifes writes writes	N/A
TEX UNIT	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	feet multest multest multest mi	N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	White white white whi	Р
JUNITE W	parts of non-metallic material within a distance of 3 mm,	MILIER WILLER WALTER WILLER	un P
NITER WIT	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table)	ALTE P N
EK WALTE	- 750 °C, for connections carrying a current exceeding 0.2 A during normal operation,	THE METH WILLIAM	IEK P
- Let	- 650 °C, for other connections	W A A	N/A
Mur.	Glow-wire applied to an interposed shielding material, if relevant	White while while whe	N/A
intite w	However, the glow-wire test of 750 °C or 650 °C as a parts of material fulfilling both or either of the following		N/A
TER WAL	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	THE WALLEY WALLEY WALLEY OF	N/A
ek walter	775 °C, for connections carrying a current exceeding 0.2 A during normal operation,	t maret united whites whi	N/A
. LEX	675 °C, for other connections	s at at at	N/A
21x 2	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	MULL MULL MULL MULL	N/A
vry and	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation,	SLITER WALTER WALTE WALLE	N/A
CE WILL	- 650 °C, for other connections	et liet sliet wife un	N/A
	The glow-wire test is also not carried out on small pa	irts. These parts are to:	N/A
White.	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	WALTER MALTE WALTE WALL	N/A

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- 411°	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
An Cir	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	untitat untitat unita unit	N/A
Wigan	- comply with the needle-flame test of Annex E, or	OLIE SOLIE MILIE MOLIE	N/A
LTEK WAY	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	TEX SUTER WITER SPITER SA	N/A
ex white	The consequential needle-flame test of Annex E app encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curre parts of non-metallic material within a distance of 3 nearts are those:	e centre of the connection zone int-carrying connections, and	N/A
nlteit w	- 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	WILEY MILES MATER MATER	N/A
TEK MUTA	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	LEX WILLEX MULTER WILLER ON	N/A
NATE TO	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	WHITEK WHITEK WHI	N/A
ant a	- small parts for which the needle-flame test of Annex E was applied, or	MULL MULL MULL MULL	N/A
	- small parts for which a material classification of V-0 or V-1 was applied	The mail while while w	N/A
Er White	However, the consequential needle-flame test is not parts, including small parts, within the cylinder that a		N/A
WALTER	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	MITTER MATTER MATTER WATER	N/A
unitek w	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	THE RESERVE MATERIAL MATERIAL	N/A
iter wit	- 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	THE WALTER WALTER WALTER OF	N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	MULTER WALTE WALT WILL	N/A
WILL	Test not applicable to conditions as specified:	PCB: V-0	JI P
31	RESISTANCE TO RUSTING		
in the	Relevant ferrous parts adequately protected against rusting	REFER WHITE WHITE WHITE	\r\ P \r\
I WALT	Tests specified in part 2 when necessary	et liter steet miter an	N/A
32	RADIATION, TOXICITY AND SIMILAR HAZARDS	74, 44, 4	P
MULL	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	WALTER WALTER WALTER WALL	P

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, "W,	EN 60335-1		The Me
Clause	Requirement – Test	Result – Remark	Verdict
ALTER TO	Compliance is checked by the limits or tests specified in part 2, if relevant	MILLER MILLER MILLER	N/A
A V	ANNEX A (INFORMATIVE) ROUTINE TESTS	WILL MULL MULL	N/A
Tre Mu	Description of routine tests to be carried out by the manufacturer	LIER MULLER MULLER MU	N/A
Byntie	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BA	ATTERIES	N/A
White.	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	WALTER WALTER WALTER	N/A
WELL ON	Three forms of construction covered:	LIER OLIER MAIR ON	rite mer - vi
isek wais Karak	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	THE WALLES WALLES WAL	N/A
WALTER V	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	White white white	N/A
ner van Ek vaner	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	er suntile suntile sunti	N/A
3.1.9	Appliance operated under the following conditions:	t tek itek litek	NITE NITE
LIEF .	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2;	THE THE TEX	N/A
ilek mur	the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate;	TEX STEX NUTEX IN	N/A
AND TEX	- 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;	meter where where	N/A
NITEK W	- 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	STEE WHITE WHITES ON	N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	EX MULTER MULTER MULT	N/A
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	- SLIEF WILLER	N/A

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Clause	Requirement – Test	Result – Remark	Verdict	
	water water was and and	the set set set	· Section	
7.1°	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage V (V) and polarity of the terminals	THE STEET WITH AND	N/A	
LTEX WINT	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	TEK WITER WITER WITER	N/A	
ex white Tex	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	A WHITEK WHITEK WHI	N/A	
in.	use only with <model designation=""> supply unit</model>	white main wat was	N/A	
7.6	Additional symbols	at let let let	N/A	
7.12	The instructions give information regarding charging	be and any	N/A	
ies wii	Instructions for appliances incorporating batteries intended to be replaced by the user include required information	LEK WALTER WALTER WA	N/A	
me	Details about how to remove batteries containing materials hazardous to the environment given	White white white wh	N/A	
oneric o	Instructions for appliances containing non-user-repla substance of the following:	aceable batteries state the	mr.	
ALTER WAY	This appliance contains batteries that are only replaceable by skilled persons	tet Junifet Whitely	N/A	
ek walte	Instructions for appliances containing non-replaceab substance of the following:	le batteries shall state the	iek <u>-</u> whi	
MITER	This appliance contains batteries that are non-replaceable	TEK TEK STEK MITE	N/A	
	For appliances intending to be supplied from a detact purposes of recharging the battery, the type reference stated along with the following:		MALTER.	
TEK UNI	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	TER WILLER WALTER WILLER W	N/A	
WALTER	If the symbol for detachable supply unit is used, its meaning is explained	t anciet waitet wait	N/A	
7.15	Markings placed on the part of the appliance connected to the supply mains	STEEL BUTEL MUTEL MALTE	N/A	
ALTEK NA	The type reference of the detachable supply unit is placed in close proximity to the symbol	Tet Tet Street Miles	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	EK MULIEK MULIEK MU	N/A	
MULT	If the appliance can be operated without batteries, double or reinforced insulation required	MILIER WALTER WALLE WALL	N/A	

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Clause	Requirement – Test	Result – Remark	Verdict	
11.7	The battery is charged for the period stated in the instructions or 24 h	MULLER MULLE MULL MICH	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)	UNLIE WHITE WHITE WAS	N/A	
et jet	If no limit specified, the temperature rise does not exceed 20 K; measured (K)	THE SHEET OF	N/A	
19.1	Appliances subjected to tests of 19.B101, 19.B102 and 19.B103	MILL MILL WALL WA	N/A	
19.10	Not applicable	CLIER WILLE WALLE WALL	N/A	
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	THE STIPLE STIPLE	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,		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	whitek whitek whitek white	N/A	
19.13	The battery does not rupture or ignite	MULL MULL MULL MULL	N/A	
21.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength	Et UNITED WALTER	N/A	
iek walter	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-31, the number of falls being:			
t let	- 100, the mass of part does not exceed 250 g		N/A	
Mr.	- 50, the mass of part exceeds 250 g	THE WALTE WALT WALL	N/A	
NATIEK WA	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	THE STIER STEEL SHITER	N/A	
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible	the text start start of	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	t whilet whilet whilet whi	N/A	
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	WALTER WALTER WALTER WALTER	N/A	
ALTER AND	For other parts, 30.2.2 applies	let let liet silet	N/A	
C TE	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS	it let let let	N/A	
* WILLIEM	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	THE TIES WITH WAY	N/A	
	Test conditions as specified	24/2 24. 24.	N/A	

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Requirement – Test

Clause



ل ى ب		+ 4
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	N/A
une w	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	N/A
	Test conditions as specified	N/A
MULTE	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST	N/A
WALTER.	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:	MILLER
7 10	Severities	. U. C.
	The duration of application of the test flame is 30 s ± 1 s	N/A
- m	Test procedure	-71
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	N/A
9.2	The first paragraph does not apply	N/A
ITEK SI	If possible, the flame is applied at least 10 mm from a corner	N/A
9.3	The test is carried out on one specimen	N/A
ER WALTE	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test	N/A
11	Evaluation of test results	211/2
zet.	The duration of burning not exceeding 30 s	N/A
ing in	However, for printed circuit boards, the duration of burning not exceeding 15 s	N/A
e m	ANNEX F (NORMATIVE) CAPACITORS	N/A
MACI	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following clauses of IEC 60384-14, with the following modifications:	UTELL TELL
1.5	Terms and definitions	1/4
1.5.3	Class X capacitors tested according to subclass X2	N/A
1.5.4	This subclause is applicable	N/A
1.6	Marking	(EK -10)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Items a) and b) are applicable	N/A
3.4	Approval testing	N ^{LI}
3.4.3.2	Table II is applicable as described	N/A

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d s	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdici
4.1	Visual examination and check of dimensions	White Mury Mury M.	14,
CLIER I	This subclause is applicable	let tet stet sist	N/A
4.2	Electrical tests	mer me me m	N/A
4.2.1	This subclause is applicable	TEX LIES NUTER WITE	N/A
4.2.5	This subclause is applicable	the the second	N/A
4.2.5.2	Only table IX is applicable	the number of the source of	N/A
Let	Values for test A apply		N/A
Mr.	However, for capacitors in heating appliances the values for test B or C apply	White white white win	N/A
4.12	Damp heat, steady state	TIER WILL MILE MILE	- Julie 1
jet s	This subclause is applicable		N/A
~ ~\\	Only insulation resistance and voltage proof are checked	ited white white white	N/A
4.13	Impulse voltage	et alies niterante an	il mair
J. St.	This subclause is applicable	All All A	N/A
4.14	Endurance	CHIEF WILL WALL WALL	11/2-
NLTEK WIN	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable	ALL STREET MILES	N/A
4.14.7	Only insulation resistance and voltage proof are checked	The lifet	N/A
, ,,,	Visual examination, no visible damage	The the the	N/A
4.17	Passive flammability test	t lifet slifet mile uni	16 111-7
d.	This subclause is applicable	m m v	N/A
4.18	Active flammability test	write write write	Mer
dit d	This subclause is applicable	The state of	N/A
G W	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		P
Mr	The following modifications to this standard are app transformers:	licable for safety isolating	7 7 <u>11</u> 2,
7 100	Marking and instructions	· if the alient of the soul	P
7.1	Transformers for specific use marked with:	211. 21. 21.	Р
Vriz "M	- name, trademark or identification mark of the manufacturer or responsible vendor:	(see appended table)	P
TER WILL	- model or type reference:	(see appended table)	IN PIN
17	Overload protection of transformers and associated	circuits	Р
Mr	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	WHILE WHILE WHILE W	N/A

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GK	
Verdict	
Р	
Ď	

01	EN 60335-1		1 1/ 1
Clause	Requirement – Test	Result – Remark	Verdic
22	Construction	MULLE MULLE MULL MILL	Р
MILIEK WI	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	outek unitek unitek unitek	JIN P
29	Clearances, creepage distances and solid insulation	at the set set	Р
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	CLE MUT, MUT, MILE	P
MULTER	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 we	P
INITEK UNI	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	TEX STEE WITEX WITEX	P
TEK WALTER	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	SEX WILLIER WHITEK WHITEK WAS	Р
H LIEK W	ANNEX H (NORMATIVE) SWITCHES	WITER WITER WITER WITE	N/A
LEK S	Switches comply with the following clauses of IEC 67	1058-1, as modified:	- (E) <u>-</u>
est rest	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	a fun au	N/A
7/1/2	Before being tested, switches are operated 20 times without load	Antie Mill Anti M	N/A
8	Marking and documentation	· LIER SLIER WITE WILL	INT.
d	Switches are not required to be marked	711 711 7	N/A
ani an	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	With Mile Mail Mail	N/A
13	Mechanism	in the me of	
IN THE	The tests may be carried out on a separate sample	t set set sitet of	N/A
15	Insulation resistance and dielectric strength	my my my	
15.1	Not applicable	THE STEE STEEL WITH	N/A
15.2	Not applicable	24 24 24 24 24 24 24 24 24 24 24 24 24 2	N/A
15.3	Applicable for full disconnection and micro-disconnection	LITER MILITER WALTER WALLES	N/A
17	Endurance	let like slike street street	rie an
Later	Compliance is checked on three separate appliances or switches	- let telt stelt si	N/A
2.j.,	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	Mer Mer Mer Miles	N/A

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- 41	EN 60335-1		, "n
Clause	Requirement – Test	Result – Remark	Verdict
Mich	otherwise specified in 24.1.3 of the relevant part 2 of EN 60335	MULLER MULLER MULLER MULLER	N/A
uris u	Switches for operation under no load and which can be operated only by a tool and	Marter Marie Marie Marie	N/A
ite wi	switches operated by hand that are interlocked so that they cannot be operated under load,	ITER WHITE MITTER AND THE A	N/A
er oute	are not subjected to the tests	A THE THE STEE MY	N/A
WILLER	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	MILES WILLES MILES MILES	N/A
1st	Sub-clauses 17.2.2 and 17.2.5.2 not applicable	and the state of	N/A
itek mit	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in EN 60335-1	the tex itex with a	N/A
* White	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of EN 60335-1 (K)	MILER WILLER MUTER WALL	N/A
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies		
LIEK IN	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	of the lifet	N/A
EK WALTE	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	The fair while was	N/A
WALTER	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS IN VOLTAGE OF THE APPLIANCE	ADEQUATE FOR THE RATED	N/A
WILLER W	The following modifications to this standard are appliinsulation that is inadequate for the rated voltage of t		MITER.
8 👉 😸	Protection against access to live parts	a at at 1st	56th- 5
8.1	Metal parts of the motor are considered to be bare live parts	ar mir mer m	N/A
11	Heating	the mile and while while while	10
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	MULTER MULTER MULTER MULTER	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	STEEL WAITER WALTER WALTER	N/A
16	Leakage current and electric strength	TEX WITE MUTE MUTE AND	, thi
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test	- THE STIPE STIPE WITH	N/A
19	Abnormal operation	Mr. Mr. 20, 20, 20,	(

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EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict	
19.1	The tests of 19.7 to 19.9 not carried out	Write Mulie Auth Auth	N/A	
19.1.101	Appliance operated at rated voltage with each of the	following fault conditions:	N/A	
siles s	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	mer mer me me	N/A	
. "h.	- short circuit of each diode of the rectifier	city with mit with a	N/A	
ER JIE	- open circuit of the supply to the motor	e at at the s	N/A	
- 1 (1) h	- open circuit of any parallel resistor, the motor being in operation	white the text is	N/A	
Mrs. 1	Only one fault simulated at a time, the tests carried out consecutively	MILE MILE WAY VIN	N/A	
22	Construction	ALTER MILE MALL MILE	n a	
22.I.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	set whilet whilet whilet wh	N/A	
"IX	Compliance checked by the tests specified for double and reinforced insulation	MULL MULL MULL MULL	N/A	
Julia di	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS			
ULLE WAL	Testing of protective coatings of printed circuit board IEC 60664-3 with the following modifications:	s carried out in accordance with	لاتين - ۱۸	
5.7	Climatic sequence	A LIFE OF	565 <u>- 1</u> 765	
t TEN	When production samples are used, three samples of the printed circuit board are tested	and	N/A	
5.7.1	Cold	MILL ME ME ME	N/A	
CLIER OF	The test is carried out at -25°C	LEK TEK TEK ALTER	N/A	
5.7.3	Rapid change of temperature	her we me m	N/A	
ITE WALT	Severity 1 is specified	THE THE ALTER MATERIAL	N/A	
5.9	Additional tests	The Total	* - ×	
MARI	This subclause is not applicable	L RUTER WRITE WALL WAL	N/A	
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES	TER THE WITER WITER	Pik	
ALTEK IN	The information on overvoltage categories is extracted from IEC 60664-1	at let the tilt	P.	
CEST SE	Overvoltage category is a numeral defining a transient overvoltage condition	t it et fet	Р	
t '64 201	Equipment of overvoltage category IV is for use at the origin of the installation	MUTT MUT MIL MI	N/A	

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77	V	١
		Z

01	EN 60335-1		1 1
Clause	Requirement – Test	Result – Remark	Verdict
WILLER W	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 white white white	N/A
LIER WA	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Category II	P
WALL	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	White white white w	N/A
NUTLEX ON	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	White Miles Maries Marie	N/A
Lest write write	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	ANCES AND CREEPAGE	on TEX Post
Murr	Sequences for the determination of clearances and creepage distances	White white white w	Р
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		
NLTER UNI	The information on pollution degrees is extracted from IEC 60664-1	White white	V ALTE P
	Pollution		35th 25
	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	Tet itet wifet in	P
TIEK .	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	and an all the	P
rek i	Minimum clearances specified where pollution may be present in the microenvironment	NET WILL MY WILL	Р
- 11c	Degrees of pollution in the microenvironment	itte, write write and	21, -21,
ek whiteh	For evaluating creepage distances, the following deg microenvironment are established:	grees of pollution in the	NI EK WILT
WALTER	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	antifet unifet unifet uni	N/A
nli ^{ek} wi	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Pollution degree 2	Р
MULTER	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	White white white on	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
WILLEK AN	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	JUNITED WATER WITH WITH	N/A
N CO	ANNEX N (NORMATIVE) PROOF TRACKING TEST	ar all the tree street	N/A
et de	The proof tracking test is carried out in accordance w modifications:	vith IEC 60112 with the following	er
7	Test apparatus	White Mer Alle Mr.	1/2
7.3	Test solutions	et let let site	Not the
70,	Test solution A is used	me me m	N/A
10	Determination of proof tracking index (PTI)	THE THE NITH OUTER	WITE W
10.1	Procedure	W. M. M. M.	*
ie with	The proof voltage is 100V, 175V, 400V or 600V:	IER STEE WILL MILL ON	N/A
t et	The test is carried out on five specimens	10 x 2+ 2	N/A
TEX	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	MULTE WALL MALL WAS	N/A
10.2	Report	murr murrant	<u></u>
NITER WA	The report stating if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	Et Junifer White v	N/A
O' white	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF	CLAUSE 30	FEE PLE
MALTER	Description of tests for determination of resistance to heat and fire	Lifet Bliff Milet Will	PE
P JUNITEK JU	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STA USED IN WARM DAMP EQUABLE CLIMATES	NDARD TO APPLIANCES	N/A
LIER WINT	Modifications applicable for class 0 and 01 appliance exceeding 150V, intended to be used in countries had are marked with symbol IEC 60417-6332		itier <mark>-</mark> uni uni
	Modifications may also be applied to class 1 appliant exceeding 150V, intended to be used in countries have are marked with symbol IEC 60417-6332, if liable mains that excludes the protective earthing conductors.	living a tropical climate and that to be connected to a supply	WALTER
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C	Tet tet stet stet	N/A
7.1	The appliance marked with symbol IEC 60417-6332	at let let let	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	MULTER MULTER MULTER MULT	N/A

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4		
	11	1
1	W	

ir are	EN 60335-1	LEK STEP STEP STEP STEP	West Collection
Clause	Requirement – Test	Result – Remark	Verdict
WILLER W	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
HITEK WAT	If symbol IEC 60417-6332 is used, its meaning is explained	TEX MITES WHITES WHITES	N/A
11.8	The values of Table 3 are reduced by 15 K	e de de de	N/A
13.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	MULL MULL MULL M	N/A
15.3	The value of t is 37 °C	INLIER WALTE WALLE WAL	N/A
16.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	LIER WIFE WIFE	N/A
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	et tet itet sitet	N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF	FELECTRONIC CIRCUITS	P
10	Description of tests for appliances incorporating elec-	etronic circuits	Р
RUTER	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		
nitek jini 1814 - ite	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	or and the suntrest	N/A
R.1	Programmable electronic circuits using software	in min min m	
antifek 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	Whitek whitek whitek white	N/A
R.2	Requirements for the architecture	at the tite	JEK 13
EX WALTER	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	t whitet whitet whitet w	N/A
R.2.1.1	Programmable electronic circuits requiring software control the fault/error conditions specified in table R.: structures:		JALTE T
TEK WALT	- single channel with periodic self-test and monitoring	et stret stret spirit	N/A
+ _c+	- dual channel (homogenous) with comparison	211 211 2	N/A
100	- dual channel (diverse) with comparison	THE LIFE ALL ON	N/A

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Clause	Requirement – Test Result – Re	mark Verdict
MILITER ON	Programmable electronic circuits requiring software incorporating control the fault/error conditions specified in table R.1 have one o structures:	
	- single channel with functional test	N/A
ite wi	- single channel with periodic self-test	N/A
A 2	- dual channel without comparison	N/A
R.2.2	Measures to control faults/errors	THE WALL WALL SHOP
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	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	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	N/A
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	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	N/A
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	N/A
R.2.2.7	Labels used for memory locations are unique	N/A
R.2.2.8	The software is protected from user alteration of safety-related segments and data	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	N/A
R.3	Measures to avoid errors	THE THE WITH STATE
R.3.1	General	1 24 24 24 24 24 24 24 24 24 24 24 24 24

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IER WITE	were me we w	EN 60335-1	et the the st	IN WALL
Clause	Requirement – Test	EK STER WITH WAS	Result – Remark	Verdict

WILLER ON	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 following measures to avoid systematic fault in the software are applied	WALTEK
TIEF WIT	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	N/A
R.3.2	Specification	100
R.3.2.1	Software safety requirements:	N/A
ane a	The specification of the software safety requirements includes the descriptions listed	N/A
R.3.2.2	Software architecture	with.
R.3.2.2.1	The specification of the software architecture includes the aspects listed	N/A
	- techniques and measures to control software faults/errors (refer to R.2.2);	
	- interactions between hardware and software;	
	- partitioning into modules and their allocation to the specified safety functions;	
	- hierarchy and call structure of the modules (control flow);	
	- interrupt handling;	
	- data flow and restrictions on data access;	
	- architecture and storage of data;	
NALTE V	- time-based dependencies of sequences and data	" Will.
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	N/A
R.3.2.3	Module design and coding	JEK
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	N/A
WAL	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	N/A
R.3.2.3.2	Software code is structured	N/A
R.3.2.3.3	Coded software is validated against the module specification by static analysis	N/A
TEK MUTTE	The module specification is validated against the architecture specification by static analysis	N/A
R.3.3.3	Software validation	£ -3
MUT.	The software is validated with reference to the requirements of the software safety requirements specification	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
AL CLE	Compliance is checked by simulation of:	TEX MILE MILES WITE	N/A
J. L. T. E. W.	- input signals present during normal operation	t at alt alt	N/A
20, 2	- anticipated occurrences	The Aut Aug A	N/A
UE N	- undesired conditions requiring system action	et et let i	N/A

Component a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
1 CPU 1.1 Registers	Stuck at	Functional test, or periodic self-test using either: - static memory test, or - word protection with single bit redundancy	H.2.16.5 H.2.16.6 H.2.19.6 H.2.19.8.2	United Whitest	ex white white	N/A
1.2 VOID	er det	onigio bit roddinadnoy	210, 711,	77. 7	+ 4	N/A
1.3 Programme counter	Stuck at	Functional test, or Periodic self-test, or Independent time-slot monitoring, or Logical monitoring of the programme sequence	H.2.16.5 H.2.16.6 H.2.18.10. 4 H.2.18.10.	white wh	SUNLIER SUNL	N/A
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.	whitek whi	et white	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	EX JUNITER JUNI	White white	N/A
4. Memory 4.1 Invariable memory	mice in	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	Nites White	antite and	N/A

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EN 60335-1					
Clause	Requirement – Test	y crest ancies and	Result – Remark	Verdict	

Component	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
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	LEX WILLEY	MILLER MALE	N/A
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	White whi	ek vinte Vintek Vintek	N/A
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	er and	whe wh	N/A
5.1 VOID	4 A	the the the wife	are are	1/2 1		N/A
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	MUTER MU	JEK WALTER	N/A
6 External communicat ion	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14	it maire	White whi	N/A
6.1 VOID	CL. M.C.	Protocortest	П.2.10.14		STEEL STEEL	N/A
6.2 VOID	£ .6*	TET TET INTE MITTE	the sure	10, 10	- 72	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.	WALTER WALTER STER WALTER WALTER WALTER WALTER WALTER WALT	Whitek wh	N/A STEEL WAS

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Requirement - Test

Clause

EN 60335-1	Let LEX SEX SEX	ER WILL MULT
I EM WALL V	Result – Remark	Verdict

	1	TABLE R.1 ^e – GENERAL FAUL	T/ERROR CO	NDITIONS		
Component	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	iek witek	MATER MATE	N/A
7.1 VOID	TER STEE	WILL AUT AUT AU			et et	N/A
7.2 Analog I/O	F 184	TEX STER BUTER MILITER	WALLEY MALLE	mris m	y wy	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	MALTER WALT	outek and	mere w
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	ex anitex	NITE WALLE	N/A
8 VOID	et set	THE MITE WILL WAS	11, 12,		1 1	N/A
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	muite mi	Whitek whi	N/A

NOTE A Stuck-at fault model denotes a fault model representing an open circuit or a non-varying signal level. A DC fault model denotes a stuck-at fault model incorporating short circuit between signal lines.

- ^{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	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE	
WALTER	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	N/A
TEN C	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

100	EN 60335-1	cet the other action	will all
Clause	Requirement – Test	Result – Remark	Verdict
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	JULIER WHITER WHITER WHI	N/A
5.S.102	Appliances are tested as motor-operated appliances.	TEX UNITER WHITER WHITE	N/A
7.1 (c)	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless	t still night south	N/A
	the polarity is irrelevant	10 T	N/A
Mrc.	Appliances also marked with:	ALTER MILLE MALLE WI	ic me
WILE AU	name, trade mark or identification mark of the manufacturer or responsible vendor:	THE STEE STEEL WILL	N/A
t	- model or type reference:		N/A
LIET WAL	– IP number according to degree of protection against ingress of water, other than IPX0:	LEK WHITE WHITE WHITE	N/A
- Inlie	- type reference of battery or batteries:	t THE JET NITER.	N/A
WALTER WAL	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	Whitek writek whitek wh	N/A
	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	Et white white	N/A
7.6	Additional symbols	THE THE	N/A
7.12	The instructions contain the following, as applicable:	me me m	<u> </u>
WILLE .	- the types of batteries that may be used:	THE THE STEE	N/A
	- how to remove and insert the batteries	me in m	N/A
WALL WALLEST W	 non-rechargeable batteries are not to be recharged 	NITEL WHITEL WHITE WHI	N/A
	rechargeable batteries are to be removed from the appliance before being charged	TEX MILER WALTER WALTER	N/A
	different types of batteries or new and used batteries are not to be mixed	t milet milet whilet	N/A
	- batteries are to be inserted with the correct polarity	** ** ***	N/A
	exhausted batteries are to be removed from the appliance and safely disposed of	antife until anti- un	N/A
	if the appliance is to be stored unused for a long period, the batteries are removed	STEE WILLER WILLER WILL	N/A
	- the supply terminals are not to be short-circuited	et the the action	N/A
11.5	Appliances are supplied with the most unfavourable s	supply voltage between	~
MULT	 0.55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 	WALTER WALTER WALTER W	N/A

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NLTEX CE	W
	Verdict
'ang	N/A

Clause	Requirement – Test	Result – Remark	Verdict
Clause	rtequirement – rest	Nesuit – Nemark	Verdici
West.	 - 0.75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only 	MILLE MILLE MILL	N/A
une w	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	untile unit unit v	N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified	the state of	N/A
19.13	The battery does not rupture or ignite	MALL WALL WALL	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	MULTER MULTER MULTER	N/A
764 76 N. 20	such a connection is unlikely to occur due to the construction of the appliance	With Must Must An	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	White while while	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		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	The function out	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	Writer writer writer	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	NITER WHITE WAITE W	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		N/A
TER	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	We set the	N/A
The s	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	anti uni uni	N/A
	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	ATERIALS	N/A
F MILER	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	est outries and the and the	N/A

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EN 60335-1



Clause	Requirement – Test	Result – Remark	Verdict
ALIA ALIA	Does not apply to glass, ceramic and similar materials	MULLER MULTER MULTER MULTER	N/A
mrs a	Tested as specified in ISO 4892-1 and ISO 4892-2, v	with the following modifications:	m_
Let &	Modifications to ISO 4892-1:	L A ST SET	(18t-
5.1	Light source		-111
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m2 at 254 nm	A MUTER MUTER MUTER MUT	N/A
WILLE	Subclause 5.1.6.1 and Table 1 are not applicable	TER SITER BLIEF WHITE	N/A
5.2	Temperature	Mr. M. M. T.	Ţ.
5.2.4	The black-panel temperature shall be 63 °C ± 3 °C	RITER WRITE WAITE WAITE	N/A
5.3	Humidity and wetting	a at at at	5 Et
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	and and an	N/A
9 🐠	Test report	mit whi whi	21/2
All The State of t	This clause is not applicable	a at at at	N/A
21/2 2	Modifications to ISO 4892-2:	WILL MULL AND MULL	1/1,
7 4 4	Procedure		JEEP (
7.1	General	The same of	
IER WILLE	At least three test specimens are tested	A THE STATE OF	N/A
	Ten samples of internal wiring is tested	me me m	N/A
7.2	Mounting the test specimens	- THE THE STEE MITE	· Will
TIEK .	The specimens are attached to the specimen holders such that they are not subject to any stress	out out the title	N/A
7.3	Exposure	nutt mut aut au.	, <u> </u>
LIER WILL	Apparatus prepared as specified	LEK TEK TEK STEK O	N/A
	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h	t stiet stiet wites wite	N/A
7.4	Measurement of radiant exposure	70 L H M	- 1 24
WALL V	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	unite unit unit unit	N/A
7.5	Determination of changes in properties after exposur	reil with the things	,,
TEX WITT	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	EX MULTER MULTER MULTER MIN	N/A
ANTI	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	WHITE WHITE WHITE WHI	N/A

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		EN 60335-1	LEK TEK LIEK SLIE	MITE WILL
Clause	Requirement – Test	ITER WALL	Result – Remark	Verdict
	1-	1 10	THE STATE OF THE STATE OF	41-57
8	Exposure report			

MALLETER

Reference No.: WTX22X10204491S Page 76 of 139



ATTACHMENT TO TEST REPORT IEC 60335-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Household and similar electrical appliances - Safety -

Part 1: General requirements

Differences according to:

EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019

EN 62233:2008

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	CENELEC COMMON MODIFICATIONS		
6.1	Delete "class 0" and "class 01"	Class II	P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	100-240V	What Mr P
T. Mur	Multi-phase appliances to be connected to the supply mains: 400 V covered	LEK WALLEY WILLE A	N/A
7.12	The instructions include the substance of the following	ng:	P ²
MILTER VI	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved	united whited white	MILITER MILITER
et s	- children shall not play with the appliance	- t	P
43.	- cleaning and user maintenance shall not be made by children without supervision	Mure Mer An	Р
8.1.1	Also test probe 18 of EN 61032 is applied	OLITER WALTER WALT	JIP JIP
NALTEX V	The appliance being in every possible position during the test, except that	THE STEE STEE	MITTER WALTER
iset n	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted	the text that	N/A
it de	The force on the probe in the straight position is increased to 10 N when probe 18 is used	The August	P
MILIER	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and	anti anti an	Y INLIE WALTER
LIER	parts intended to be removed for user maintenance are also not removed	of the tex	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	et writet writet w	N/A

	EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES				
Clause	Requirement – Test	Result – Remark	Verdict		
	mil will will and the	L & & & &	LIFE OUT		
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	when when when	MITEL MITEL		
	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	ATER WITER WITER	N/A		
20.2	For appliances having dangerous 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	NITER WHITER WHITER W	N/A		
H WHITEH	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	Whitek whitek whiteh	N/A		
MULLE 1	When using test probe 18 it is applied with a force of 2.5N on the appliance fully assembled	MALIER WALTER WALTER	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	et white white white	N/A		
22.17	The requirement is not applicable to built-in appliances	THE MITES MITES	N/A		
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply	NATER MINISER MALTER W	ALTEK MALT P		
	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard	TEX MULTER MULTER MUL	N/A		
- William	Relays are tested as part of the appliance according to this standard	* WHITE WHITE WHITE	N/A		

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4/1	EUROPEAN GROUP DIFFERENCES AND NA		- dl
Clause	Requirement – Test	Result – Remark	Verdict
ounlies w	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	Whitek whitek whitek whitek	Р
er vie	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	TEX MUTER WITH WITH W	NITE PUIT
Whitek	Components that have been tested and shown to correquirements in the EN standard for the relevant corprovided that:		P
ALTEK SI	- the severity specified in the component standard is not less than the severity specified in 30.2, and	Tet Tet Tet State	P
TEK ST	- the test report for the component states the values of te and ti acc. to EN 60695-2-11	A ST ST ST	TEL P
- 10°	If the above two conditions are not satisfied, the component is tested as part of the appliance	The the the the	P
WA.	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard	white and are are	N/A
LIEK WA	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	und white white	P
WALTE	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9	TEK TEK STEK MITE	SE PAL
LITEY .	Components that have not been separately tested and found to comply with the relevant standard, and	and the set the	P
ar ar	components that are not marked or not used in accordance with their marking,	AL WAS THE THE	Р
y Miles	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard	to Music man must be	P
Whitek W	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance	MALIER WHITER WHITER WHITER	N/A
SE WALT	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	et united	F PIN

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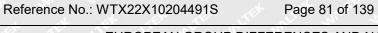
Clause	Requirement – Test	Result – Remark	Verdict
+ 10	att att and was and	A ST ST	164 156
untiex w	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	Miles Miles Miles	N/A
EK VANTE	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	The miles while my	Pal Mri est unit
WALTER	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1, if	LIET SLIET SMITH	MALTE - PER
NITEK NI	direct supply to these parts from the supply mains gives rise to a hazard	TEX TEX STEX	N/A
Set St	For plugs used in CENELEC countries Annex ZH applies	or an an a	P
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 EN 41003	Multer Multer Multer	N/A
WY I'E V	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003	united 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	The function was	N/A
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH	mult mult mu	P
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or	white white white	N/A
ar s	When they are liable to be exposed to significant amount of ultraviolet radiation	ing the same a	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		N/A
WALTER	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH	SLIER SLIER MALIER	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 tomaintain them in position,	SLIFER MALIER MALIER OF	N/A
"Mr.	unless they are held in place near the terminals independently of the solder	MULL MILL WILL	N/A

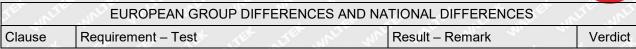
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	EUROPEAN GROUP DIFFERENCES AND NA		312 01
Clause	Requirement – Test	Result – Remark	Verdic
	and the many of the	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2	writes writes writes	N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233	LEX MALIER MALIER WAS	Р
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified	A MALTER MALTER WALTE	N/A
WILLE V	The duration of any of the tests is as specified in 19.7	MILIER MALIER WALTER	N/A
	the articular man and an are	at the left	CIEN LITER
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS	mir war war w	P
21/2	The state of the s	ite white and wife	24, 24
t Jet	Denmark, Sweden, Norway and Finland	L A A A	· 5 2 5
7.12.8	The maximum inlet water pressure is at least 1,0 MPa:	white me we	N/A
11/2 11	The state of the s	NITE MITE WALL V	Nr. Mr.
et .	Norway		at at
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring	The fine and	N/A
- 16+	Norway	mil ust us	70 TO
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	WILL MILE MILE	N/A
de d	E STEEL SHITE WALL WALL AND THE	at at all a	Et JEt.
. 70	Denmark	its will mur mur	1, 1,
22.47	The maximum inlet water pressure is at least 1,0 MPa:	t writer writer writer	N/A
111-11E-1	Ireland and United Kingdom	WITH MULTER	write write
25.8	In the table, the lines for 10 A and 16 A are replaced	bv:	N/A
L. AL	> 10 and ≤ 13 1,25	LIE WILL WILL W	N/A
CE LE	> 13 and ≤ 16 1,5		N/A
200	10 4114 = 10 1,0	anite with wall	IN/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS	t iter sites with	anti niPi

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an .	of the strength with the strength of the stren	-1/2
THE .	Ireland	Jet
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	N/A
EF WILE	MILL MILL WITH MILL IN THE STEE STEEL	10
	United Kingdom	
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.	N/A
IFE WALTE	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes	N/A
ZC C	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	P
MUL M	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	P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS	P
WALTER.	List of IEC and CENELEC code designations for flexible cords	Jul P.
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
All the	Model or type reference:	N/A
11/2 1	Serial number, if any:	N/A
det d	Production year	N/A
12/2	Designation of the appliance:	N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely	N/A
t set	The instructions contain at least the following information:	N/A



IET ONLIVE	EUROPEAN GROUP DIFFERENCES AND NA	TIONAL DIFFERENCES	WITE WIL
Clause	Requirement – Test	Result – Remark	Verdic
antiex w	the business name and full address of the manufacturer and, where applicable, his authorized representative	White White White	N/A
irek wir	model or type reference of the appliance as marked on the appliance itself, except for the serial number	TEX OUTEX MUTER MUTE	N/A
EK WUTTER	the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers	A MILIER WHITER WHITER	N/A
WALTER V	the general description of the appliance, when needed due to the complexity of the appliance	MILIER WALTER WALTER W	N/A
ULIEK AU	specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving	NUTER WHITER WHITER WHI	N/A
The Maria F TEX	when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance	SEX WILLIAM TO WILL	N/A
WAL TEE	the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance	white whi whi	N/A
NITEH MAE	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	THE WALL OF THE SHEET	N/A
MUTER	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	must mer my	N/A
MILIEN MI	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	NITER WHITE WHITER WH	N/A
ek whitek	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	t whilet whilet	N/A
7.12.ZE1	If needed for specific appliances, the following inform	nation to be given:	N/A
	- 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	and while while while	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
- 11		and the state of	16t JU
MUSTER MY	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	White Mrites whites white	N/A
itek wat K	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
MULLER	- 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	White white white whi	N/A
NLTEX WA	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator	NUTER WHITER WHITER WHITER	N/A
TEK WILTE	- on airborne noise emissions, determined and declarelevant Part 2, which includes:	ared in accordance with the	N/A
MUTER	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);	MULTER MULTER MULTER M	N/A
WALTER W	- where this level does not exceed 70 dB(A), this fact is indicated	MITTER MILITER WILLIAM	N/A
RITER WAL	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa)	the feet whitek	N/A
Whitek .	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A)	whitek whitek whitek whi	N/A
7.12.ZE2	The instructions includes a warning to disconnect the appliance from its power source during service and when replacing parts	NATER WHITER WATER WHITE	N/A
ir unitek Mutek	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed	. I A d	N/A
MULTEK M	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	MALIER MALIER MALIER MALI	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	street untilet untilet untilet	N/A
20	a manual operation is required to restart it	The Maria Maria	N/A

Clause	EUROPEAN GROUP DIFFERENCES AND NA		\/!'-t
Clause	Requirement – Test	Result – Remark	Verdict
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	JULIER WHITER WHITER WHITER	N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards	ITEX INLIER WHITER WHITER W	N/A
EK WILLEY	When guards are used, they are fixed guards, interlocking movable guards or protective devices	# stiff nites with	N/A
NLTEK.	Moving parts directly involved in the function of the a completely inaccessible fitted with:	ppliance which cannot be made	N/A
INLIEK W	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and	LIET WILET WILET	N/A
ITEK WALT	- adjustable guards restricting access to those sections of the moving parts where access is necessary	sex musex musex musex on	N/A
White	Interlocking movable guards used where frequent access is required	COLIER WALLER WALLER	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	WALTE WALTE WA	N/A
MALTER	The distance between the seat and the control devices capable of being adapted to the operator	STEEL MITTER MATTER MATE	N/A
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	NITER WHITER WHITER	N/A
ek untiek	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	t united whitek whitek whi	N/A
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	MUSTER MUSTER MUSTER MUSTER	N/A
nite wh	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	STEEL MUTEL MUTEL MUTE.	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	e unite unit unit un - tek tek itek sit	N/A
24	so designed that they can be fitted with such attachments, or	Mer Mer My My	N/A

	EUROPEAN GROUP DIFFERENCES AND NA	TIONAL DIFFERENCES	
Clause	Requirement – Test	Result – Remark	Verdict
AN CLE	be shaped in such a way that standard lifting gear can easily be used	White white with	N/A
one w	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	Intitle white white white	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	* Tiles wites writes one	N/A
MILIER	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	Whitek mutek mutek white	N/A
ing an	Where possible, guards are incapable of remaining in place without their fixings	NITER WILLS WILL WILL .	N/A
ite muri	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	ex unifer unifer unifer un	N/A
21/2	Movable guards are interlocked	WITE WILL MILL WILL	N/A
WILLIER OF	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	united whited whited whited	N/A
iek unite	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 the	guards associated with a guard	N/A
LIEK	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	AND AND THE LIFE	N/A
NUTER W	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	THE STEE STEE SOLETE	N/A
LIEK JALI	Interlocking movable guards remain attached to the appliance when open, and	the the state state	N/A
et Let	they are designed and constructed in such a way that they can be adjusted only by means of an	m m m	N/A

N/A

N/A

N/A

being simulated at a time

intentional action

Interlocking movable guards designed in such a way

The guard is opened to the extent needed to cause

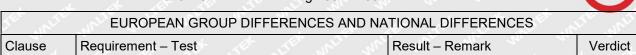
normal use is applied to the interlock system, including interruption of the supply, only one defect

that the absence or failure of one of their components prevents starting or stops the

hazardous appliance functions

22.ZE.6

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Clause	Requirement – Test	Result – Remark	Verdict
e with	After these tests the interlock system is fit for further use	White white white with	N/A
22.ZE.7	Adjustable guards restricting access to areas of the for the work are:	moving parts strictly necessary	N/A
NITE WILL	- adjustable manually or automatically, depending on the type of work involved, and	TEX WITE MITTER WITER A	N/A
LEK MITE	- readily adjustable without the use of tools	of the the steel and	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	WILE MILES WATER WATER	N/A
unitek wi	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	ALTER WHITER WHITER WHITER	N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	t let tet tret stet at	N/A
	Such isolators are clearly identified, and	any any any	N/A
WILLE A	they are capable of being locked if reconnection endanger persons	MALIER WALTER WALTER	N/A
nitek uni	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 Militer Militer	N/A
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF F STANDARDS IN THE EN 60335 SERIES UNDER L		Pri
MUTER M	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive):	NITER WAITER WALTER	on i P
70	ANNEY 70 (NORMATILIE)	TER WILLER WALTE WALL ON	NI/A
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		N/A
TEK	The following modifications to this standard apply to appliances having UV emitters	THE THE THE	N/A
Whitek wh	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	unit with wifet wifet	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	EX WHITEK WHITEK WHITEK WA	N/A

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01	D	D. W. D.	\ , ,		
Clause	Requirement – Test	Result – Remark	Verdict		
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant	Whilek whilek whilek whilek	N/A		
OB N	TE RETER WILL WALL WALL WILL STORY	at the fifth	N/A		
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENEL	EC countries	Р		
'n'	In general, supply cords of single-phase appliances exceeding 16 A are fitted with a plug complying with		Р		
MUL.	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4	white white white white	N/A		
	- for class II appliances, standard sheet EU5, EU6 or EU7:	mir and and	Р		
	There are exemptions or differences in certain CENELEC countries	THE WALL WITH M	Р		
ZI	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A				
LITER MAI	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1	art and the smith	P.V		
we	July July and July 15th 15	er crise anis anis an	in the		
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STA OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 O COVERED		PE		
n n	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU	WILL MULL MULL MULL	P		
yunites yunites	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	e at at at	Pul		
White 4	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives	united united united united	P		
- 20,	A THE STEEL	The Wife Mur Aug.	(3) 7)		
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STA ESSENTIAL REQUIREMENTS OF DIRECTIVE 200 COVERED		N/A		
211	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC	MULL MILL MILL MILL	N/A		

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	EUROPEAN GROUP DIFFERENCES AND NA	ATIONAL DIFFERENCES	
Clause	Requirement – Test	Result – Remark	Verdict
5 J"	with the the the the	the state of the state of	ater altr
	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	UNITER WHITER WHITER WALL	N/A
EK WALTE	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	A MUTER MUTER MUTER	N/A
WELL	an an an an at the test	LIER SLIER MIE MA	I. Wir.
NITEK AN	ANNEX EN 62233:2008 EMF- ELECTROMAGNETICS FIELDS	TEX STEX SLITE SLITE	P
	The tested product also complies with the requireme	ents of EN 62233:2008	Р
IF WILL	Limit100%	Measured max.: 1.36%	In Part

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10.1 TABLE: Power input deviation						
Input devia	tion of/at:	P rated (W)	P measured (W)	ΔP (%)	Required ΔP (%)	Remark
-nliter wh	The Maria 1	14 24 24		y	ITEK ITEK	LIE WALLE

10.2	TABLE: Curre	ent deviation				Р
Current de	eviation of/at:	I rated (A)	I measured (A)	ΔI (%)	Required ΔI (%)	Remark
100V/50Hz		1.5	1.023	-0.32	+20	Tested with
100V/60Hz		1.5	1.024	-0.32	+20	model GTM96900P90
240V/50Hz	in in	1.5	0.438	-0.71	+20	12-T2
240V/60Hz	ANTER WATE	1.5	0.438	-0.71	+20	Output: 12VDC, 7.5A
100V/50Hz		1.5	1.020	-0.32	+20	Tested with
100V/60Hz	while where	1.5	1.022	-0.32	+20	model GTM96900P90
240V/50Hz	Let Let	1.5	0.430	-0.71	+20	15-T2
240V/60Hz	LIC WALL W	1.5	0.431	-0.71	+20	Output: 15VDC, 6.0A
100V/50Hz	e lov love	1.5	0.992	-0.34	+20	Tested with
100V/60Hz		1.5	0.993	-0.34	+20	model GTM96900P90
240V/50Hz	100	1.5	0.426	-0.72	+20	30-T2
240V/60Hz	NITER MITER	1.5	0.428	-0.71	+20	Output: 30VDC, 3.0A
100V/50Hz	V. 2.	1.5	1.272	-0.15	+20	Tested with
100V/60Hz	TE WITE WY	1.5	1.272	-0.15	+20	model GTM961200P
240V/50Hz	1 N N	1.5	0.542	-0.64	+20	1112-T2
240V/60Hz	white whi	1.5	0.543	-0.64	+20	Output: 12VDC, 9.25A
100V/50Hz	CLIER	1.5	1.384	-0.08	+20	Tested with
100V/60Hz	7	1.5	1.386	-0.08	+20	model GTM961200P
240V/50Hz	LITER WALTER W	1.5	0.580	-0.61	+20	2015-T2
240V/60Hz	iek aliek mi	1.5	0.581	-0.61	+20	Output: 15VDC, 8.0A
100V/50Hz	10, 2,	1.5	1.363	-0.09	+20	Tested with
100V/60Hz	THE MITE	1.5	1.363	-0.09	+20	model GTM961200P ²
240V/50Hz	7	1.5	0.580	-0.61	+20	2024-T2
240V/60Hz	WALLE MALLE	1.5	0.580	-0.61	+20	Output: 24VDC, 5.0A

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11.8	TABLE: Heating test, thermocouples		P
	Test voltage (V)	See below	74
WITE O	Ambient (°C)	See below	nii - 1

Thermocouple locations	Max. temp	perature r	ise measure	ed, ΔT (K)	Max. temperature rise limit, ΔT (K)	
	94V/6	60Hz	254.4V	//50Hz		
	Label up	Label down	Label up	Label down		
Pin of appliance inlet	18.9	19.6	18.0	15.6	T70-25=45	
MOV1 body	26.9	26.1	22.2	20.9	T85-25=60	
LF1 winding	39.8	38.6	32.8	31.8	T130-25=105	
CX1 body	41.5	40.1	33.5	32.4	T100-25=75	
LF2 winding	47.2	45.2	36.3	35.2	T130-25=105	
PCB near BD1	45.1	41.2	34.4	34.2	T130-25=105	
L1 winding	53.7	51.6	40.9	40.0	T130-25=105	
L2 winding	54.6	52.6	42.7	41.8	T130-25=105	
PCB near Q1	47.0	44.8	38.7	38.1	T130-25=105	
PCB near Q3	46.8	44.9	39.2	38.5	T130-25=105	
C4 body	54.0	51.9	46.1	45.3	T105-25=80	
T1 winding	68.8	67.2	63.2	62.2	85, Class 130	
T1 bobbin	59.7	57.9	52.8	52.0	For cl.30.1	
L3 winding	60.5	58.3	53.5	53.3	T130-25=105	
CY1 body	47.2	44.0	41.0	40.8	T125-25=100	
CY2 body	54.7	50.6	49.0	48.9	T125-25=100	
U2 body	61.0	59.2	55.5	54.8	T100-25=75	
L4 winding	55.5	52.3	50.7	50.5	T130-25=105	
C41 body	60.9	59.4	56.0	55.1	T105-25=80	
PCB near D53	62.6	61.0	58.0	57.3	T130-25=105	
Output lead wire	40.4	38.7	37.5	36.4	T80-25=55	
Plastic enclosure inside near T1,	46.0	43.1	37.6	37.2	For cl.30.1	
Plastic enclosure outside near T1	33.8	31.3	28.0	27.3	74	
Test floor	18.9	19.6	18.0	15.6	65	
Ambient	24.3°C	24.6°C	24.1°C	24.3°C	TER STEEL O	

11.8 TAE

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Test voltage (V)	See below	- - +
Ambient (°C)	See below	uner.

Thermocouple locations	Max. temp	erature ri	se measure	ed, ΔT (K)	Max. temperature rise limit, ΔT (K)	
	94V/6	60Hz	254.4V	//50Hz		
	Label up	Label down	Label up	Label down		
Pin of appliance inlet	29.5	29.7	27.5	26.6	T70-25=45	
MOV1 body	32.8	33.1	25.9	25.7	T85-25=60	
LF1 winding	44.5	45.2	35.7	35.5	T130-25=105	
CX1 body	44.4	45.5	33.9	33.9	T100-25=75	
LF2 winding	50.8	51.2	37.1	36.9	T130-25=105	
PCB near BD1	41.8	43.2	42.8	40.9	T130-25=105	
L1 winding	60.2	61.2	33.8	43.0	T130-25=105	
L2 winding	48.1	48.9	36.3	36.6	T130-25=105	
PCB near Q1	41.7	42.2	33.1	33.5	T130-25=105	
PCB near Q3	41.9	42.2	33.7	33.8	T130-25=105	
C4 body	47.7	49.0	40.3	39.4	T105-25=80	
T1 winding	61.7	63.2	55.8	55.8	85, Class 130	
T1 bobbin	49.5	51.1	41.7	42.0	For cl.30.1	
L3 winding	50.2	52.2	42.8	43.5	T130-25=105	
CY1 body	36.9	40.4	30.4	32.1	T125-25=100	
CY2 body	53.1	58.8	46.8	50.1	T125-25=100	
U2 body	53.4	55.2	47.2	47.9	T100-25=75	
L4 winding	44.7	47.7	39.8	41.8	T130-25=105	
C41 body	52.1	53.4	46.8	47.1	T105-25=80	
PCB near D53	53.8	55.1	48.6	49.0	T130-25=105	
Output lead wire	29.5	31.8	25.6	27.8	T80-25=55	
Plastic enclosure inside near T1,	38.9	39.5	30.0	31.0	For cl.30.1	
Plastic enclosure outside near T1	32.9	34.5	26.6	28.1	74	
Test floor	31.5	29.7	23.6	26.3	65	
Ambient	24.4°C	24.5°C	24.5°C	24.2°C	EL LIER-CITER	

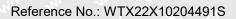
	11.8	TABLE: Heating test, thermocouples	Must Must Mill Mills	P
Ś	WILL W	Test voltage (V)	See below	Mar.
4	nit in	Ambient (°C)	See below	70 m

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Thermocouple locations	Max. temp	erature r	ise measure	d, ΔT (K)	Max. temperature	
	94V/6	60Hz	254.4V	/50Hz	rise limit, ΔT (K)	
	Label up	Label down	Label up	Label down		
Pin of appliance inlet	24.9	26.3	15.2	18.5	T70-25=45	
MOV1 body	31.7	29.6	19.7	20.6	T85-25=60	
LF1 winding	37.1	35.2	23.7	25.5	T130-25=105	
CX1 body	43.5	41.9	27.2	29.6	T100-25=75	
LF2 winding	49.0	47.3	27.5	30.0	T130-25=105	
PCB near BD1	48.7	45.6	29.8	31.9	T130-25=105	
L1 winding	53.2	51.5	31.6	34.5	T130-25=105	
L2 winding	50.1	48.7	33.2	36.0	T130-25=105	
PCB near Q1	43.1	41.3	29.1	32.1	T130-25=105	
PCB near Q3	41.4	38.4	29.0	31.6	T130-25=105	
C4 body	47.7	46.3	34.6	37.6	T105-25=80	
T1 winding	55.3	53.8	43.7	46.6	85, Class 130	
T1 bobbin	47.8	46.3	35.9	38.8	For cl.30.1	
L3 winding	43.0	49.3	18.4	18.0	T130-25=105	
CY1 body	36.7	32.1	27.2	28.9	T125-25=100	
CY2 body	47.3	42.6	38.8	39.8	T125-25=100	
U2 body	50.0	48.8	40.7	43.2	T100-25=75	
L4 winding	41.5	38.0	33.9	36.0	T130-25=105	
C41 body	58.1	56.9	48.4	51.5	T105-25=80	
PCB near D53	50.1	49.2	41.8	43.8	T130-25=105	
Output lead wire	26.4	22.4	20.4	22.5	T80-25=55	
Plastic enclosure inside near T1,	40.4	38.2	27.7	30.1	For cl.30.1	
Plastic enclosure outside near T1	25.2	26.6	16.8	21.9	74	
Test floor	21.2	28.1	13.7	20.7	65	
Ambient	24.7°C	24.4°C	24.5°C	24.5°C	THE KILL STE	

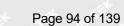
11.8	.8 TABLE: Heating test, thermocouples				20, 2	Р
THE ME	Test voltage (V)		See k	pelow	CLIEB IN	<u> </u>
	Ambient (°C)		See k	pelow	20, 2,	L ->
Thermo	couple locations	Max. temperatu	re ris	e measured, ΔT (K)	Max. temp	
		94V/60Hz	m.	254.4V/50Hz	rise limit,	ΔT (K)





	Label up	Label down	Label up	Label down	
Pin of appliance inlet	29.9	29.6	24.8	23.6	T70-25=45
MOV1 body	31.8	34.6	24.4	24.8	T85-25=60
LF1 winding	43.4	45.4	34.0	34.1	T130-25=105
CX1 body	44.1	45.6	33.1	32.3	T100-25=75
LF2 winding	51.1	52.3	36.2	35.3	T130-25=105
PCB near BD1	48.2	51.5	35.0	35.4	T130-25=105
L1 winding	60.4	61.1	43.8	42.4	T130-25=105
L2 winding	57.3	58.0	48.2	47.3	T130-25=105
PCB near Q1	54.3	54.8	42.4	41.1	T130-25=105
PCB near Q3	54.0	54.2	43.3	42.1	T130-25=105
C4 body	56.2	56.9	45.7	44.4	T105-25=80
T1 winding	68.6	68.8	65.3	64.0	85, Class 130
T1 bobbin	69.2	69.6	55.8	54.5	For cl.30.1
L3 winding	67.6	68.0	59.3	58.5	T130-25=105
CY1 body	50.6	51.5	43.1	42.8	T125-25=100
CY2 body	54.7	56.7	49.5	50.5	T125-25=100
U2 body	59.5	60.0	57.3	56.7	T100-25=75
L4 winding	55.6	56.7	51.5	51.7	T130-25=105
C41 body	64.0	63.5	59.1	58.0	T105-25=80
PCB near D53	65.9	67.0	60.3	60.8	T130-25=105
Output lead wire	40.7	39.6	37.8	36.5	T80-25=55
Plastic enclosure inside near T1,	56.3	44.3	36.6	35.9	For cl.30.1
Plastic enclosure outside near T1	39.8	38.5	32.5	34.2	74
Test floor	35.4	34.1	30.6	31.3	65
Ambient	24.4°C	24.3°C	24.4°C	24.5°C	et tot

11.8	TABLE: Heating test, thermocouples						
LIEK O	Test voltage (V)			See below			JEE.
1 1				e below	71, 2		
Thermo	couple locations	Max. temp	Max. temperature rise measured, ΔT (K)			Max. temperatu	
		94V/60Hz		254.4V/50Hz		rise limit,	ΔT (K)
WALTE		Label up	Label down	Label up	Label down		





Pin of appliance inlet	28.8	28.7	24.1	24.5	T70-25=45
MOV1 body	32.9	34.5	22.1	23.3	T85-25=60
LF1 winding	44.7	46.0	30.9	31.6	T130-25=105
CX1 body	46.1	47.3	31.5	31.8	T100-25=75
LF2 winding	54.2	55.4	35.6	35.6	T130-25=105
PCB near BD1	50.5	52.0	33.1	34.1	T130-25=105
L1 winding	56.7	57.8	39.6	39.7	T130-25=105
L2 winding	56.2	57.5	42.4	42.7	T130-25=105
PCB near Q1	56.9	58.0	41.8	41.8	T130-25=105
PCB near Q3	54.7	55.7	41.1	41.2	T130-25=105
C4 body	58.7	59.9	44.6	44.9	T105-25=80
T1 winding	67.3	66.6	61.2	61.3	85, Class 130
T1 bobbin	64.1	63.9	60.3	60.2	For cl.30.1
L3 winding	68.8	68.9	58.7	59.4	T130-25=105
CY1 body	50.1	52.2	39.5	41.1	T125-25=100
CY2 body	57.8	60.2	46.7	50.2	T125-25=100
U2 body	57.8	58.3	52.2	52.9	T100-25=75
L4 winding	58.0	59.9	49.0	51.3	T130-25=105
C41 body	63.2	64.1	56.2	56.5	T105-25=80
PCB near D53	67.9	69.8	58.6	59.7	T130-25=105
Output lead wire	35.9	36.4	30.3	31.2	T80-25=55
Plastic enclosure inside near T1,	50.9	52.1	37.6	38.0	For cl.30.1
Plastic enclosure outside near T1	38.6	38.3	28.3	27.9	74
Test floor	34.2	33.9	25.4	25.1	65
Ambient	24.3°C	24.2°C	24.2°C	24.4°C	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

11.8	TABLE: Heating test, thermocouples							
UNITER	Test voltage (V)			ee below	JEK .	LIEK WITER	101 <u>116.</u>	
	Ambient (°C)			See below				
Thermocouple locations		Max. temp	Max. temperature rise measured, ΔT (K) Max. temp					
		94V/60Hz		254.4V/50Hz		rise limit, ΔT (K)		
		Label up	Label down	Label up	Label down			
Pin of ap	ppliance inlet	26.9	27.3	19.0	19.1	T70-25	=45	
MOV1 b	ody	47.0	48.6	25.9	26.1	T85-25	=60	

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LF1 winding	49.6	51.3	34.4	34.9	T130-25=105
CX1 body	26.9	28.3	38.0	38.6	T100-25=75
LF2 winding	63.7	65.5	40.2	40.8	T130-25=105
PCB near BD1	59.1	60.9	42.7	43.4	T130-25=105
L1 winding	66.8	68.6	44.3	45.1	T130-25=105
L2 winding	57.7	59.5	44.9	45.7	T130-25=105
PCB near Q1	58.6	60.4	44.6	45.4	T130-25=105
PCB near Q3	56.5	58.2	46.4	47.2	T130-25=105
C4 body	62.2	63.9	46.8	47.7	T105-25=80
T1 winding	83.4	84.4	62.2	63.5	85, Class 130
T1 bobbin	68.1	70.1	50.3	51.3	For cl.30.1
L3 winding	76.2	78.1	60.2	61.4	T130-25=105
CY1 body	45.4	47.0	43.8	44.6	T125-25=100
CY2 body	52.1	53.7	50.9	51.9	T125-25=100
U2 body	70.9	72.8	55.9	57.0	T100-25=75
L4 winding	48.7	50.4	44.0	44.8	T130-25=105
C41 body	62.6	64.4	57.6	58.7	T105-25=80
PCB near D53	63.0	64.8	54.1	55.2	T130-25=105
Output lead wire	35.9	37.4	31.2	31.6	T80-25=55
Plastic enclosure inside near T1,	65.0	65.8	38.5	39.2	For cl.30.1
Plastic enclosure outside near T1	42.7	41.8	27.5	27.7	74
Test floor	36.0	35.2	21.4	21.5	65
Ambient	24.4°C	24.2°C	24.1°C	24.2°C	st st

11.8	1.8 TABLE: Heating test, resistance method						
Ell JE	Test voltage (V)	7/2/		a st set set			
40.	Ambient, t ₁ (°C)			ri min	ant ant and		- I
MITER	Ambient, t ₂ (°C)	et let	FER JET STEE BLIEF				
Tempera	ature rise of winding	R ₁ (Ω)	R ₂ (Ω)	Δ T (K)	Max. Δ T (K)	Insula	
		et et	MITE - MITE	mr. m.	1/15 1/11	20.	
Supplem	entary information:	21,		* .	t at a	- (6	

13.2	TABLE: Leakage current				
4	Heating appliances: 1.15 x rated input (W):	me me an	<u></u>		

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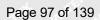


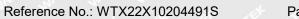


k aliek	Motor-operated and combined appliances: 1.06 x rated voltage (V)	254.4	L LIEL SLIE MITE
Leakage c	urrent between	I (mA)	Max. allowed I (mA)
Tested with	model GTM96900P9012-T2	et let set	ALTER MATER MATER
L/N to plast	tic enclosure	0.045	0.35 peak
L/N to outp	ut connector	0.136	0.35 peak
Tested with	n model GTM96900P9030-T2	21/2 24 24	. A A A
L/N to plast	tic enclosure	0.033	0.35 peak
L/N to outp	ut connector	0.152	0.35 peak
Tested with	model GTM961200P11112-T2	TER NITER MITTE	MILL MILL MILL
L/N to plast	tic enclosure	0.046	0.35 peak
L/N to outp	ut connector	0.155	0.35 peak
Tested with	model GTM961200P12024-T2	t	et let let il
L/N to plast	tic enclosure	0.037	0.35 peak
L/N to outp	ut connector	0.146	0.35 peak
Supplemen	tary information:	VII MUT AUT	211 211 211

13.3	TABLE: Dielectric strength		P
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Tested w	vith model GTM96900P9030-T2		IF THE STEE OUT
L/N to pla	astic enclosure	3000	No
L/N to ou	itput connector	3000	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	vith model GTM961200P12024-T2	THE THE STATE OF	LIFE WALL WALL WAS
L/N to pla	astic enclosure	3000	No
L/N to ou	itput connector	3000	No
Primary a	and secondary of T1	3000	No No
Seconda	ry and iron core of T1	3000	w No w
One laye	r of insulation tape	3000	No
Supplem	entary information:	E LIER RIVER MITE MAIN W	ne are an a

16.2	TABLE: Leakage current	itte met met me me	Р
iek walie	Single phase appliances: 1.06 x rated voltage (V):	254.4	West Error





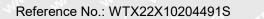
	A	V.	K
3			,

k Slifek	Three phase appliances 1.06 x rated voltage divided by √3 (V):		t ster with write
Leakage c	current between	I (mA)	Max. allowed I (mA)
Tested with	h model GTM96900P9012-T2	t let set	ALTER OLIER SOLIER
L/N to plas	tic enclosure	0.045	0.25
L/N to output connector		0.136 0.25	
Tested with	h model GTM96900P9030-T2	21, 21, 2,	1 A A A
L/N to plas	tic enclosure	0.033	0.25
L/N to output connector		0.152	0.25
Tested with	h model GTM961200P11112-T2	ER MITER MITE	MULL MULL MAN
L/N to plas	tic enclosure	0.046	0.25
L/N to outp	out connector	0.155	0.25
Tested with	h model GTM961200P12024-T2	1 1	ret itet itet ni
L/N to plas	tic enclosure	0.037	0.25
L/N to outp	out connector	0.146	0.25
Supplemer	ntary information:	in me me	24 24 25

16.3	TABLE: Dielectric strength		Р
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Tested w	ith model GTM96900P9030-T2		of the atternati
L/N to pla	astic enclosure	3000	No
L/N to ou	tput connector	3000	No
Primary a	and secondary of T1	3000	No
Seconda	ry and iron core of T1	3000	No miles
One layer of insulation tape		3000	No
Tested w	ith model GTM961200P12024-T2	THE THE STEEL STEEL IS	LIFE WILL WALL WAS
L/N to plastic enclosure		3000	No +
L/N to output connector		3000	No whi
Primary and secondary of T1		3000	No-
Secondary and iron core of T1		3000	The Myo
One layer of insulation tape		3000	No No
Supplem	entary information:	F LIER SLIE WILL WALL Y	me me me

17	TABLE: Overload protection, thermocouple method					
Temper	rature rise of part/at:	Max. temperature rise measured, ΔT (K)	Max. temperatu limit, ΔT (F			
Tested	with model GTM96900P9012-T2	Mr. Mr. Mr. M.	- Let Let	JEEL		

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T1 winding	84.3	150
T1 bobbin	72.1	For cl.30.1
Output lead wire	41.3	55
Tested with model GTM96900P9030-T2	" at the stee of	White Will Aug A
T1 winding	54.5	150
T1 bobbin	41.0	For cl.30.1
Output lead wire	27.8	55
Tested with model GTM961200P11112-T2	2 ret atter outer write of	KIL MUE MUE MUE
T1 winding	79.2	150
T1 bobbin	66.6	For cl.30.1
Output lead wire	43.9	55
Tested with model GTM961200P12024-T2	et nith mit mi m	201 201 201 20
T1 winding	77.2	150
T1 bobbin	64.6	For cl.30.1
Output lead wire	41.9	55
Supplementary information:	The west was one on	

V)	100	.: "	The gray	- 10° 10° -
		A	-	- 12 J
*)	A 15	- V .V		15 d
,,		The State of	10 - 1n.	20.
R ₁ (Ω)	R ₂ (Ω)	Δ T (K)	T (°C)	Max. T (
TEK SEK-JULI	WILL M	not in	30	/
Š	R ₁ (Ω)	R ₁ (Ω) R ₂ (Ω)	THE THE MILE WAS THE WAY	R ₁ (Ω) R ₂ (Ω) Δ T (K) T (°C)

19.13	TABLE: Abnormal operation, temperature rises					
Thermocouple locations		Max. temperature rise measured, ΔT (K)	Max. temperature rise			
		LEX TEX TEX TO THE MULTINATURE OF THE PERSON				
Suppleme	ntary information:	a state of the	TER STEE WITE WITE			

21.1	TABLE: Impac	The Market Wall P.W		
Impacts p	per surface	Surface tested	Impact energy (Nm)	Comments
Three	e blows	Enclosure	0.5J	No hazards
Supplemen	tary information:	alter walk walk	Mr. Mr. Mr. Mr.	a at at

Jt P		TABLE: Components	24.1
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Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Enclosure	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTICS US L L C	940	PC, Min. V-0, Min. thickness: 2.0mm, 120°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E121562
(Alternative)	SABIC JAPAN L L C	945(GG)	PC, Min. V-0, Min. thickness: 2.0mm, 120°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780
(Alternative)	SABIC INNOVATIVE PLASTI Alt. use CS B V	C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 105°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTICS B V	CX7211	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 90°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	TEIJIN CHEMICALS LTD	LN-1250P, LN-1250G	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E50075
Appliance inlet CN1 (C8 type)	LECI Electronics Co., Ltd	DB-8	250 Vac, 2.5A	IEC/EN 60320-1	VDE 40032028
(Alternative)	Rich Bay Co Ltd	R-201SN90	250 Vac, 2.5A	IEC/EN 60320-1	VDE 40030384
(Alternative)	Sun Fair Electric Wire & Cable (HK) Co Ltd	S-01	250 Vac, 2.5A	IEC/EN 60320-1	VDE 40034449
(Alternative)	TECX-UNIONS Technology Corporation	SO-222	250 Vac, 2.5A	IEC/EN 60320-1	VDE 40043268
(Alternative)	RongFeng Industrial Co., Ltd.	RF- 180	250 Vac, 2.5A	IEC/EN 60320-1	VDE 40030168
(Alternative)	Inalways Corp.	0721	250 Vac, 2.5A	IEC/EN 60320-1	ENEC/FI 2010087
(Alternative)	Zhe Jiang BeiErjia	ST-A03-005	250 Vac, 2.5A	IEC/EN 60320-1	VDE 40014833
(Alternative)	Delikang Electronics Technology Co Ltd	CDJ-8	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40025531 UL E217394
Appliance inlet CN1 (C18 type)	RongFengIndustr ial Co.,Ltd	SS-120	250 Vac, 10A	IEC/EN 60320-1	VDE 40028101



24.1	TABLE: Components	Р			
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	HCR ELECTRONICS CO., LTD.	SK05	250 Vac, 10A	IEC/EN 60320-1	CB:NO69247
(Alternative)	Rich Bay Co., Ltd.	R-301SN	250 Vac, 10A	IEC/EN 60320-1	VDE 40030228
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B, T4	V-0, 130°C	UL 796	UL E154355
(Alternative)	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1, 2V0, FR4	V-0, 130°C	UL 796	UL E243157
(Alternative)	CHEERFUL ELECTRONIC (HK) LTD	02, 03, 03A	V-0, 130°C	UL 796	UL E199724
(Alternative)	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	V-0, 130°C	UL 796	UL E251754
(Alternative)	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0, 03V0, 04V0	V-0, 130°C	UL 796	UL E186016
(Alternative)	KUOTIANG ENT LTD	C-2, C-2A	V-0, 130°C	UL 796	UL E227299
(Alternative)	SHENZHEN TONGCHUANG XIN ELECTRONICS CO LTD	TCX	V-0, 130°C	UL 796	UL E250336
(Alternative)	YUANMAN PRINTED CIRCUIT CO LTD	1V0	V-0, 130°C	UL 796	UL E74757
(Alternative)	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	V-0, 130°C	UL 796	UL E231590
(Alternative)	KUNSHAN CITY QIANDENG WUQIAO ELECTRICAL APPLIANCE FACTORY	WQ-A, WQ-B, WQ-C	V-0, 130°C	UL 796	UL E492425



24.1 TA	BLE: Components	The Street	wer we w	1, 2,	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Jiangxi ZHONG XIN HUA Electronics Industry Co Ltd	ZXH-1, ZXH-2, ZXH-3	V-0, 130°C	UL 796	UL E331298
(Alternative)	Shenzhen Jia Li Chuang Technology Development Co LTD	JLC-2	V-0, 130°C	UL 796	UL E479892
(Alternative)	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	V-0, 130°C	UL 796	UL E229877
(Alternative)	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	V-0, 130°C	UL 796	UL E213009
(Alternative)	SHANGHAI H-FAST ELECTRONICS CO LTD	211001, 411001	V-0, 130°C	UL 796	UL E337862
Insulating tape wrapping around the heatsink (Use insulation tape will not use Insulating tube)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1, 1350T-1	Min. 130°C	UL 510	UL E17385
(Alternative)	BONDTEC PACIFIC CO LTD	370S	Min. 130°C	UL 510	UL E175868
(Alternative)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ, CT	Min. 130°C	UL 510	UL E165111
(Alternative)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min. 130°C	UL 510	UL E246950
(Alternative)	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min. 130°C	UL 510	UL E246820



24.1 TAI	BLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Insulating tube used on heatsink and ground wire (Heatsink using insulating tube will not use insulation tape)	SHENZHEN WOER HEAT-SHRINKA BLE MATERIAL CO LTD	RSFR RSFR-H RSFR-HPF	600V, 125°C	UL 224	UL E203950
(Alternative)	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	UL 224	UL E225897
(Alternative)	DONGGUAN SALIPT CO LTD	SALIPT S-901-300, SALIPT S-901-600	600V, 125°C	UL 224	UL E209436
(Alternative)	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+), K-2 (CB)	600V, 125°C	UL 224	UL E214175
(Alternative)	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	600V, 125°C	UL 224	UL E180908
Fuse (F1, F2) (F2 is optional)	Ever Island Electric Co., Ltd.And Walter Electric	2010	T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40018781 UL E220181
(Alternative)	Conquer ElectronicsCo., Ltd.	MST series	T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017118 UL E82636
(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)	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



24.1 TA	BLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
X capacitor (CX1) (optional)	Cheng Tung Industrial Co., Ltd.	CTX	Max. 0.22μF, Min.300V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	ENEC-02671 UL E193049
(Alternative)	Tenta Electric Industrial Co. Ltd.	MEX	Max. 0.22μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 119119 UL E222911
(Alternative)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Max. 0.22µF, Min.250V, 105°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032481 UL E216807
(Alternative)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max. 0.22μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40015608 UL E183780
(Alternative)	Yuon Yu Electronics Co. Ltd.	MPX	Max. 0.22μF, Min.250V, 100°C, X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032392 UL E200119
(Alternative)	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Max. 0.22μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40014686 UL E237560
(Alternative)	Jiangsu XinghuaHuayu Electronics Co., Ltd.	MPX - Series	Max. 0.22μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40022417 UL E311166
(Alternative)	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Max. 0.22μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
(Alternative)	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Max. 0.22µF, Min.250V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018690 UL E252286
(Alternative)	FoshanShunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	Max. 0.22μF, Min.250V, 105°C, X1 or X2	IEC/EN 60384-14	VDE 40008922
(Alternative)	Winday Electronic Industrial Co., Ltd.	MPX series	Max. 0.22μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14	VDE 40018071
Bleeder resistance (R1, R2)	Interchangeable	Interchangeable	Max. 2MΩ, 1/4W	IEC/EN 60335-1	Tested with appliance



24.1 T	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Bleeder resistance (R1A, R2A)	Interchangeable	Interchangeable	Max. 4.7MΩ, 1/4W	IEC/EN 60335-1	Tested with appliance
Y capacitor (CY1, CY2) (optional)	TDK Corporation	CD	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40029780 UL E37861
(Alternative)	Success Electronics Co., Ltd.	SE MILIE W	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280
(Alternative)	Success Electronics Co., Ltd.	SB	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280
(Alternative)	Murata Mfg. Co., Ltd.	KX Y	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
(Alternative)	Walsin Technology Corp.	AH	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001804 UL E146544
(Alternative)	JYA-NAY Co., Ltd.	JN W W	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001831 UL E201384
(Alternative)	Haohua Electronic Co.	CT7	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
(Alternative)	Jyh Chung Electronic Co., Ltd.	JD. Pr. John J	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 137027 UL E187963
(Alternative)	Jerro Electronics Corp.	JX-series	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032158 UL E333001
(Alternative)	WELSON INDUSTRIAL CO LTD	WD	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40016157 UL E104572
Varistor MOV1 (optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 005944



24.1 TA	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Centra Science Corp.	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 40008220
(Alternative)	SUCCESS ELECTRONICS CO LTD	SVR10D471K, SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 40030401
(Alternative)	WALSIN TECHNOLOGY CORP	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 40010090
(Alternative)	BestBright Electronics Co. Ltd	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 40005858 VDE 40027827
(Alternative)	CERAMATE TECHNICAL CO LTD	GNR10D471K, GNR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 40031745
(Alternative)	Joyin Co., Ltd.	10N471K, 14N471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 005937
Optocoupler (U2)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm, Int., dcr=6.0mm, EXT. dcr=7.7mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 132249
(Alternative)	COSMO ELECTRONICS CORP	K1010, KP1010	Dti=0.6mm, Int., dcr=4.0mm EXT. dcr=5.0mm, thermal cycling test, 115°C	IEC/EN 60747-5-2	VDE 101347
(Alternative)	Lite-On Technology Corporation	LTV-817	Dti=0.8mm, Int., EXT. dcr=7.8mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 40015248



24.1	TABLE: Components				Р
Object / par No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Fairchild Semiconductor Pte Ltd	H11A817B, FOD817B	Insulation voltage: 850V, Transient overvoltage: 6000V, CTI175; Int. Cr/ Ext. Cr: ≥7.0/ 7.0 mm, 30/110/21	IEC/EN 60747-5-2	VDE 40026857
(Alternative)	SHARP CORP ELECTRONIC COMPONENTS AND DEVICES BU	PC817	Insulation voltage: 890V, Transient overvoltage: 9000V, Int. Cr/ Ext. Cr: 7.62/ 7.62 mm, 30/110/21	IEC/EN 60747-5-2	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, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 40007240
(Alternative)	TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION	TLP817F	Dti> 0,4mm, Ext cr> 8,0mm, Isolation 3000Vac min., 110°C min., Thermal cycling test	IEC/EN 60747-5-2	VDE 40021173
Transformer (T1)	GlobTek / HAOPUWEI	See attachment for details	Class B, with critical component listed below	IEC/EN 60335-1	Tested with appliance
-Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	UL 1446	UL E201757
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C	UL 1446	UL E201757
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C	UL 1446	UL E201757
(Alternative)	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C	UL 1446	UL E174837



24.1 TAE	BLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C	UL 1446	UL E174837
(Alternative)	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	UL 1446	UL E335065
(Alternative)	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130oC	UL 1446	UL E158909
(Alternative)	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	UL 1446	UL E206882
(Alternative)	JIANGSU DARTONG M & E CO LTD	UEW	MW75-C, 130°C	UL 1446	UL E237377
(Alternative)	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	UL 1446	UL E194410
(Alternative)	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C	UL 1446	UL E222214
-Triple-insulated wire (Secondary)	Great Leoflon IndustrialCo., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	IEC/EN 60335-1 UL 2353	VDE 136581 UL E211989
(Alternative)	KBI COSMOLINK CO.,LTD	TIW-M Serie(s)	Class B, reinforced insulation	IEC/EN 60335-1 UL 2353	VDE 138053 UL E213764
(Alternative)	Furukawa Electric Co., Ltd.Electronics & Automotive Systems CompanyGlobal Business Development Division	TEX-E	Class B, reinforced insulation	IEC/EN 60335-1 UL 2353	VDE 006735 UL E206440
(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2	Reinforced insulation, rated 130° C (Class B)	IEC/EN 60335-1 UL 2353	VDE 40044910 UL E166483



24.1 T	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
(Alternative)	E&B TECHNOLOGY CO LTD	E&B-XXXB, E&B-XXXB-1	Reinforced insulation, Class B	IEC/EN 60335-1 UL 2353	VDE 40023473 UL E315265
(Alternative)	SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	Reinforced insulation, Class B	IEC/EN 60335-1 UL 2353	VDE 40037495 UL E357999
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J, T375HF	V-0, 150°C, thickness 0.45 mm min.	IEC/EN 60335-1	Tested with appliance & UL E59481
(Alternative)	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0.74 mm min.	IEC/EN 60335-1	Tested with appliance & UL E59481
(Alternative)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0.45 mm min.	IEC/EN 60335-1	Tested with appliance & UL E41429
(Alternative)	SHOWA DENKO MATERIALS TECHNO SERVICE CO., LTD.	CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	IEC/EN 60335-1	Tested with appliance & UL E514814
-Insulating tap	e 3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1, 1350T-1, 44	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & ULE17385
(Alternative)	BONDTEC PACIFIC CO LTD	370S	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E175868
(Alternative)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ, CT, WF	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E165111
(Alternative)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E246950
(Alternative)	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E246820
-Teflon tube	GREAT HOLDING INDUSTRIAL CO LTD	TFT, TFS	Min. 300V, 200°C	UL 224	UL E156256



24.1 TAI	BLE: Components				Р	
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
(Alternative)	SHENZHEN WOER HEAT-SHRINKA BLE MATERIAL CO LTD	WF	600V, 200°C	UL 224	UL E203950	
(Alternative)	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T, CB-TT-S	Min. 300V, 200°C	UL 224	UL E180908	
-Varnish	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	T-4260(a)	130°C	UL 1446	UL E228349	
Output lead wire	KUNSHAN NEWZHICHENG ELECTRONICST ECHNOLOGIES CO LTD	1185, 2464, 2468, 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E237831	
(Alternative)	ZHUANG SHANCHUANEL ECTRICALPRO DUCTS(KUNSH AN) COLTD	1185, 2464, 2468, 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E333601	
(Alternative)	ZHUANG SHANCHUANEL ECTRICALPRO DUCTS(KUNSH AN) COLTD	SPT-1, SPT-2	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E333536	
(Alternative)	SUZHOU JIAHUISHU ELECTRONIC CO LTD	1185, 2464, 2468, 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E353532	
(Alternative)	SUZHOUDIOUD EELECTRONICS CO LTD	SPT-1, SPT-2	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E336192	
Material of quick connector			Brass H65		Tested with appliance	
(Alternative)	Suzhou xianlede Electronics Co.,Ltd	Brass	H65	IEC/EN 60335-1	Tested with appliance	
(Alternative) HUANG JI MEC HANICAL ELECT RONIC FTY.		Brass	H65	IEC/EN 60335-1	Tested with appliance	



24.1 T	ABLE: Components	S TIEL RITER.			Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Supplementary	information:	L 711	. It let	TEK LITER	WITE MALLE
1) Provided evi	idence ensures the	agreed level of co	mpliance. See OD-0	CB2039.	

Product model	Voltage range	Transformer model
GT*96900P series	12-13.4V	TF047
and GT*961200P series	13.5-14.9V	TF075
Selles	15-16.9V	TF048
	17-18.9V	TF076
ALLER MALTER MA	19-21.3V	TF072
20, 20,	21.4-23.9V	TF077
LIER WILLIAM WILL	24-27.4	TF049
24, 24, 25,	27.5-30.0V	TF078

28.1 TABLE: Threade	28.1 TABLE: Threaded part torque test								
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)						
A A A A	15 315 V	11. 11.	The set set						
Supplementary information:	A Company		MUTT MUT, MUT, M						

29.1	TABLE: Clearances P										
t the s	Overvoltage categ	ory.:	Category II								
The In		J.	VEL WEE	21/2 21/2							
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark					
330	0,2* / 0,5 / 0,8**		18t - 18t	JEK- JEK	INITE NA	ic mi					
500	0,2* / 0,5 / 0,8**	N-TE	aur aur	20	- J	t dt de					
800	0,2* / 0,5 / 0,8**		Let -Jet o	78 m 18 .	neite - when	mr mr					
1 500	0,5 / 0,8** / 1,0***	ه سیاریو	1 21 24	<u>-</u>	A - A	Jet Jet					
2 500	1,5 / <u>2,0</u> ***	>2.0	>2.0	in i Terror	>2.0	P. P.					
4 000	3,0 / <u>3,5</u> ***	12 - W	70, - 70	>3.5	t -10t	Pitt Pitt					
6 000	5,5 / 6,0***	JE	NITE OLIVE	Write-Mili	71/2 71	. 11 14					
8 000	8,0 / 8,5***	-71,	20 -2	A - A	All S	ek silek mi					
10 000	11,0 / 11,5***	-(4)	ALTER TALLE	The Alexander	are - are	70, - 2,					



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

29.2 TABLE: Working voltage (V):	Creep	age dis	Cre	basic, su eepage di (mm) ollution de	stance	ntary a	nd reinfor	ced in	sulati	on	TEXP VIII
TIEN STEEL OF	1	4 4			3				Type o		NITEK
10 10 2		Material group			Material group			The said			2,
ALTER ONLINE	WILL	1000	H _{OD}	Illa/IIIb	Ì,	, II ,	IIIa/IIIb*	B**	S**	R**	Verdict
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	24	10,		N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	J. 65	MITE	- TI-12	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	_	- T		N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	()	SC.	11/11/2	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	_	.+	_ <u></u>	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	77/1	-41	9	N/A
250	0,56	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	>2.5		<i>*</i>	Р
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	1100	>2.5	7/1	Р
250	1,12	2,5	3,6	<u>5,0</u>	6,4	7,2	8,0	74		>5.0	P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3			1,,,	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	* <u> </u>	150	N. 17 6.	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	-20	, _ °		N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	N.L.T.	100	٧_,	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0			<u>u</u> —	N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	NITO TO	Well.	in	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	J.L	zet-	_(c)	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	, _0	× .	21 <u>5.</u>	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	<i>6</i> — ,	£	CLEA	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	2/1/2	-21	_	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	-36		<u></u>	N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	211.	70,		N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	CT EX	. (Sec.)	<u> </u>	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	_		_,	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0		V	No.	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		.u—	4	N/A



29.2 Working		Creep	age dis		basic, su epage di		ntary aı	nd reinfor	ced in	sulati	on	P
(V)	_	e.k			(mm) ollution d				2/1			
The Sh	y Jes	1	المالين المخ	2	EK WALTEN	WALTE	3	MULE	Type of insulation			
in m	In.	111	Material group			Ма	terial g	roup	Write White My			100
et let	State	LIE .	. NIE	Jil.	Illa/IIIb	711	, II	IIIa/IIIb*	B**	S**	R**	Verdic
>1250 and	d ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	Ž		2/10	N/A
>1250 and	d ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	<i>y</i> —	Col.	J. C.	N/A
>1600 and	d ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	2/1/2	_0	_	N/A
>1600 and	d ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	(6	<u>-</u>	£	N/A
>1600 and	d ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	n.	700		N/A
>2000 and	d ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	TEX	(C)	-11-U	N/A
>2000 and	d ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	_	3		N/A
>2000 and	d ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	(°	v.	No. Ex	N/A
>2500 and	d ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		<u>_</u>	<u></u>	N/A
>2500 and	d ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	747	11/1	_	N/A
>2500 and	d ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	7		*	N/A
>3200 and	d ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	ne	7/2	700	N/A
>3200 and	d ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	74	C. C. C. C.	-5	N/A
>3200 and	d ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0		_	2,	N/A
>4000 and	d ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	٠ ,	5 Et	J. 140 T	N/A
>4000 and	d ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	-2,		_	N/A
>4000 and	d ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	10 T	-1	9	N/A
>5000 and	d ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	3,		y —	N/A
>5000 and	d ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N. Carlon	William	40	N/A
>5000 and	d ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	*	-	46	N/A
>6300 and	0008≥ b	25,0	32,0	45,0	63,0	80,0	90,0	100,0	, J	× .	n.	N/A
>6300 and	0008≥ b	25,0	32,0	45,0	63,0	80,0	90,0	100,0	¢— ,	e*	C.	N/A
>6300 and	0008≥ b	50,0	64,0	90,0	126,0	160,0	180,0	200,0	m	_0		N/A
>8000 and	≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	(JE)		<u></u>	N/A
>8000 and	≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	211	10,		N/A
>8000 and	≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	(1 <u>46</u>	(E)	JULI	N/A
>10000 and	d ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		- T	_,	N/A
>10000 and	d ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		4	U.	N/A
>10000 and	d ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0			25	N/A



29.2	TABLE:	Creep	reepage distances, basic, supplementary and reinforced insulation										
	g voltage V):	ر الماريخ الماريخ	ir Tex		reepage dis (mm) Pollution de		ITEK N	NITEK WILL		ite i	JINLIE TEX	WALL	
in 1	Tet Tet	1	المالين الم	2	TEX WALTER	MULL	3	MULL	Type o			CENT S	
in m	in in	20,	Ма	terial o	group	Ma	aterial (group	N.C.	are,	Th.	100	
st si	y Jet	The same	(1)V	, il	Illa/IIIb	777	II	IIIa/IIIb*	B**	S**	R**	Verdict	

Supplementary information:

^{*)} Material group IIIb is allowed if the working voltage does not exceed 50 V **) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

Working voltage (V):	MULTER	White		eepage di (mm) ollution d		UNITEK.	MUTER ME	fex uniter uniter.
MITE MALIE W	1	u .	W 2 W		3 3		LET JE	t with with
- A	<i>*</i>	Ma	terial g	roup	Ma	aterial g	roup	24 25
INCIE WALL WAL	In.	1-2/1	11 -20	IIIa/IIIb	ر ا پ	∳ II _≪	IIIa/IIIb*	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	Par y
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

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Supplementary information:

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

30.1 TABLE: Ball Pressure Test of Thermoplastics									
Allowed impression diame	eter (mm):	2.0	70 7	. 					
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diam	eter (mm)					
Enclosure	See appended table 24.1	125	1.2	in whi					
T1 bobbin	See appended table 24.1	125	0.6	WALTER					

Supplementary information:

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

30.2	TABLE: Resistance	ce to hea	t and fire	- Glow wi	ire tests			↓ P
Object/	Manufacturer _	- 3)	G	low wire t	est (GWT); (°C)	antie a	VEL MUE
Part No./ Material	ST ST	550	6	650		750	050	Verdict
are are	trademark	550	te	ti	te	ti	850	
Enclosure	See appended table 24.1	P	ν <u> </u>	TEH ST	0s	0s	TEL P	WILL P.
Appliance inlet	See appended table 24.1	EK MIT	t white	MULTER	0s	0s	P	MILLE P. M.
T1 bobbin	See appended table 24.1	MILTER	WALTER	WY IN	0s	0s	un'P ul	P
Output connector	See appended table 24.1	INLTE T ~	nli cit w	ilie <mark>-</mark> wi nk ne	0s	0s	PW PW	P
Object/ Part No./	Manufacturer /	Glow	ion temp. T), °C	Verdict				
Material	trademark	550	650	750	850	675	775	
antie ani	I WIT WE	7/1.			18 - A	et tet	10 TEN	ie mir
The test spe	ecimen passed the	glow wire	e test (GV	T) with no	ignition [(te – ti) ≤ 2s]	(Yes/No):	Yes
If no, then s	urrounding parts pa	assed the	needle-f	lame test o	of annex E	(Yes/No)		N/A
The test spe with the glov	ecimen passed the w-wire (Yes/No)?	test by vi	rtue of mo	ost of the f	laming ma	iterial being	withdrawn	No
Ignition of th	e specified layer pl	aced und	derneath t	he test sp	ecimen (Y	es/No)		No

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Supplementary information:

- 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)	Verdict			
The the		THE RIVER MALTE	White Are !	11, 71,	2, -			

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: GTM96900P9012-T2



Photo 1



Photo 2

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Photo 3



Photo 4





Photo 5

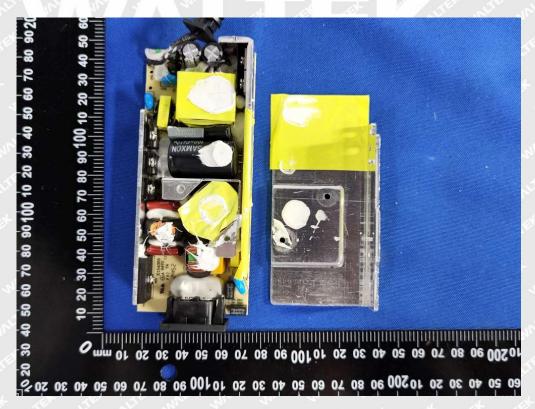


Photo 6







Photo 7

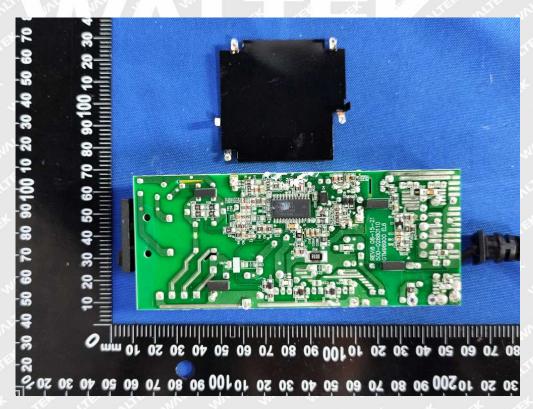


Photo 8

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W

Photo Documentation

Model: GTM96900P9015-T2



Photo 9

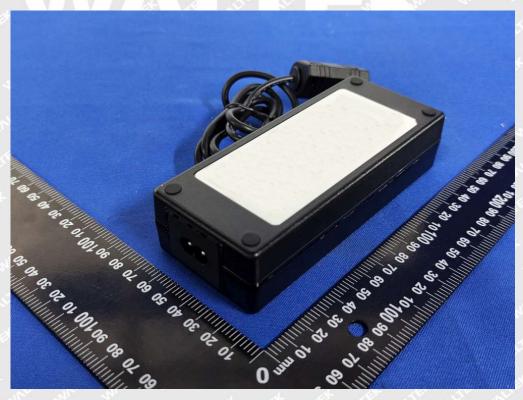


Photo 10

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Photo 11



Photo 12





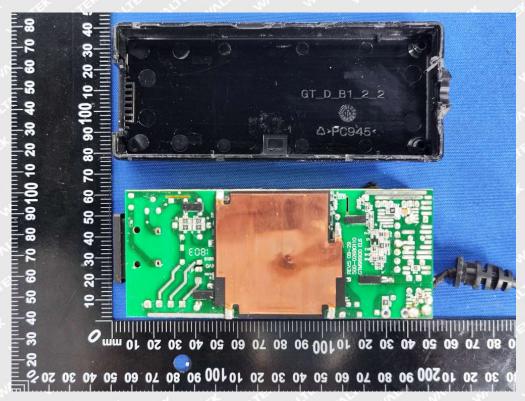


Photo 13

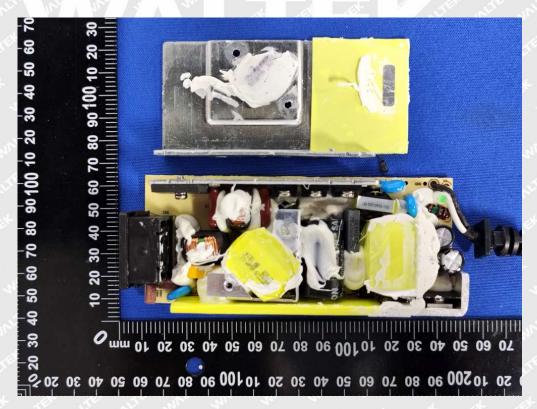


Photo 14





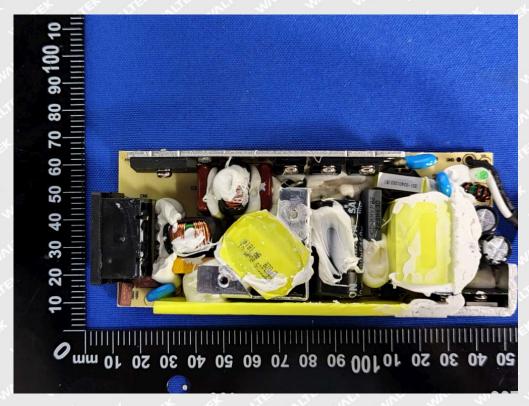


Photo 15

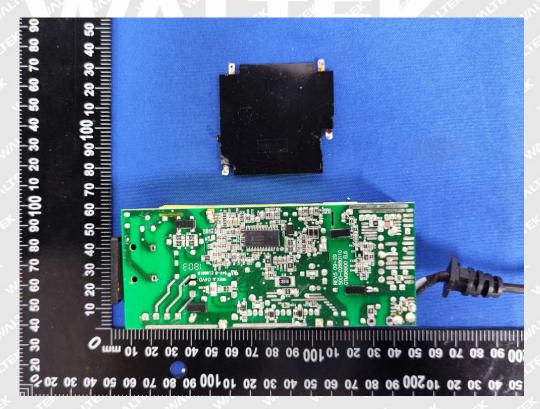


Photo 16

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W

Photo Documentation

Model: GTM96900P9030-T2



Photo 17



Photo 18

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Photo 19



Photo 20





12

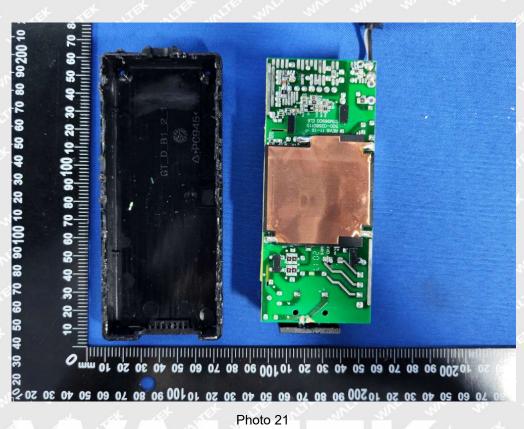


Photo 21



Photo 22







Photo 23

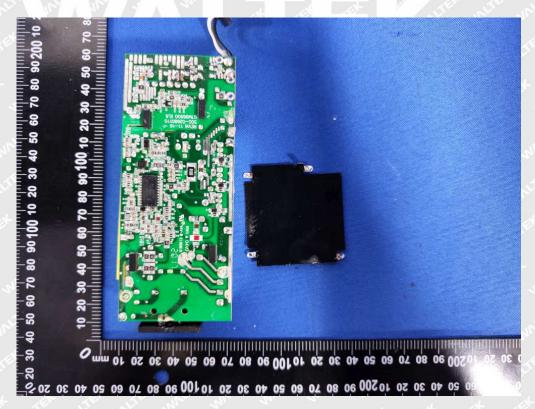


Photo 24



Model: GTM961200P11112-T2



Photo 25



Photo 26

W



Photo 27



Photo 28





Photo 29



Photo 30

W

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Photo 31

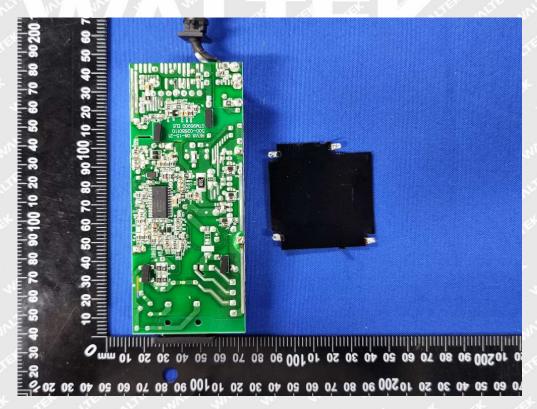


Photo 32



GTM961200P12015-T2



Photo 33

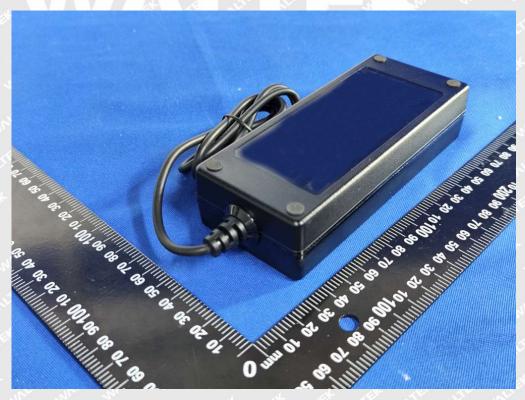


Photo 34





Photo 35



Photo 36





Photo 37



Photo 38







Photo 39

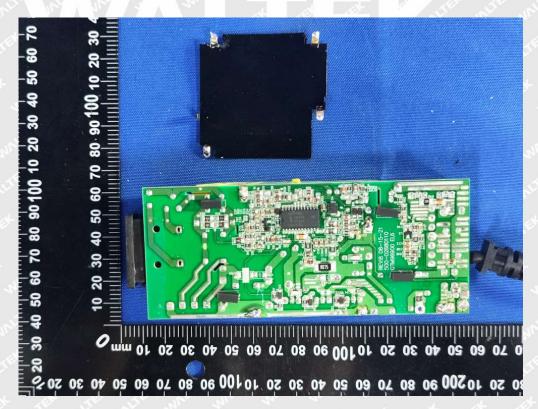


Photo 40

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Photo Documentation

Model: GTM961200P12024-T2



Photo 41



Photo 42

W



Photo 43



Photo 44





Photo 45

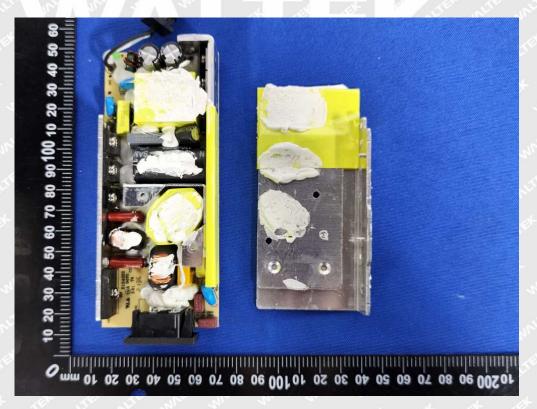


Photo 46

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W

Photo Documentation



Photo 47

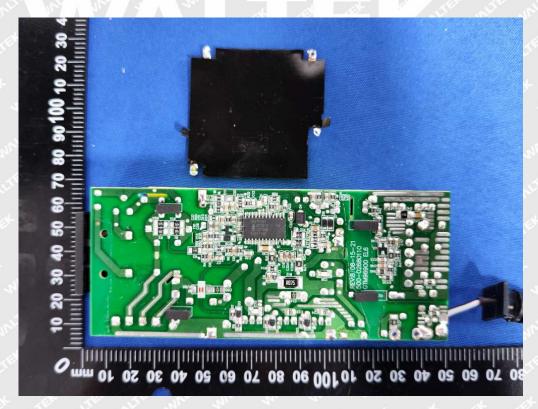


Photo 48

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