



TEST REPORT

Reference No..... : WTF17F1298718S

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

Wan, Kowloon, Hong Kong.

Manufacturer: Mid Ocean Brands B.V.

Address...... Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha

Wan, Kowloon, Hong Kong.

Vendor code..... : 103221

Product Name.....: Bluetooth Speaker

Model No.....: MO9260

Information technology equipment – Safety –

Standards: Part 1: General requirements

IEC 60950-1:2005+A1:2009+A2:2013

Date of Receipt sample : 2017-11-24

Date of Test : 2017-11-24 to 2017-11-30

Date of Issue : 2018-01-22

Test Report Form No.: WSH-609501F-01A

Test Result..... : Pass

Remarks:

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

Prepared By:

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EST REPOR

Compiled by:

Jaca Huang / Project Engineer

Approved by:

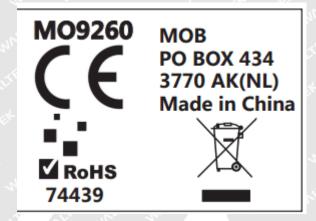
Jerry Mu / Manager



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Test item description Bluetooth Speaker

Copy of marking plate:



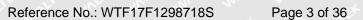
National difference:

EU group national differences were considered accroding to below standard:

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Summary of testing:

- 1. These samples are tested and complied with the requirements of standards listed.
- 2. Full tests were performed on model MO9260.





Test item particulars	in my mile the state of the
Equipment mobility:	[x] movable [] hand-held [x] transportable [] stationary [] for building-in [] direct plug-in
Connection to the mains:	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [x] not directly connected to the mains [] built-in component, consider in end system
Operating condition:	[x] continuous [] rated operating / resting time: 90 sec ON / 30 min OFF
Access location:	[x] operator accessible [] restricted access location [] built-in component, consider in end system
Over voltage category (OVC)	[] OVC I [] OVC II [] OVC III [] OVC IV [x] other:
Mains supply tolerance (%) or absolute mains supply values:	N who who we the ties the
Tested for IT power systems	[] Yes [x] No
IT testing, phase-phase voltage (V)	N the text stext street states in
Class of equipment:	[] Class I [] Class II [x] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A)	N white white whit with whe will
Pollution degree (PD)	[] PD 1 [x] PD 2 [] PD 3
IP protection class	IP20
Altitude during operation (m)	Up to 2000
Altitude of test laboratory (m)	Below 2000
Mass of equipment (kg)	Approx. 0.09kg
Possible test case verdicts:	THE THE TEXT OF
- test case does not apply to the test object	Net with white will will will will
- test object does meet the requirement	P(Pass)
- test object does not meet the requirement:	F(Fail)



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Abbreviations used in the report:

normal conditions
 functional insulation
 double insulation
 DI
 single fault conditions
 basic insulation
 supplementary insulation
 SI

- between parts of opposite

polarity BOP - reinforced insulation RI

Indicate used abbreviations (if any)

General remarks:

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

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

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

General product information:

- 1. Bluetooth Speaker, models MO9260, intended for use with the information technology equipment.
- 2. The maximum operating temperature is 40°C.
- 3. Circuit characteristics: the equipment contains SELV circuitry only.
- 4. The equipment is operated up to 2000m above sea level as declared by manufacturer.
- 5. Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.



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	STEEL WILL MULL MULL AND	EC 60950-1	
Clause	Requirement + Test	Result - Remark	Verdict
1 11 11	GENERAL	the tell the till outsit	W. W. P.

1.5	Components	LIER WILL WILL MILL MALL WA	Р
1.5.1	General	4	P
WALTER VAL	Comply with IEC 60950-1 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or within the safety aspects of the relevant IEC component standards. (see appended tables 1.5.1)	Ph Mart
1.5.2	Evaluation and testing of components	Components which are certified to IEC and /or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	TEP V
1.5.3	Thermal controls	No thermal controls used	N
1.5.4	Transformers	TEX TEX LIER SLIER	Ń
1.5.5	Interconnecting cables	The Man Man	N
1.5.6	Capacitors bridging insulation	LEK TEK LIFET NITER IN	N
1.5.7	Resistors bridging insulation	i m m m	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	I's anifek whitek white	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	THE MILEY MILEY	N. N. Y
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	TEX LIFEX	I N
1.5.8	Components in equipment for IT power systems	L'E M. M. M. M.	N
1.5.9	Surge suppressors	No surge suppressor used.	N
1.5.9.1	General	i. Mr. Mr. M. M.	N
1.5.9.2	Protection of VDRs	er tek jek jiek sije	N
1.5.9.3	Bridging of functional insulation by a VDR	Mur. My My My	N
1.5.9.4	Bridging of basic insulation by a VDR	THE THE LIFE STEEL	νŃ
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	me and an an	N

1.6	Power interface	at at at the of	P
1.6.1	AC power distribution systems	Not directly connected to the mains	N
1.6.2	Input current	(see appended table 1.6.2)	WP.



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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.6.3	Voltage limit of hand-held equipment	TEX STEE BLIEF SINTER SUNTER	MN
1.6.4	Neutral conductor	Not directly connected to the mains	N N

1.7	Marking and instructions	LEK TEK STEK SLIER IN	Р
1.7.1	Power rating and identification markings	m m m	Р
1.7.1.1	Power rating marking	The required marking is located on the outside surface of the equipment.	NP.T
Vr. MV.	Multiple mains supply connections:	SLIER WILL WALL WALL	N
iek anite	Rated voltage(s) or voltage range(s) (V):	See marking plate for details or no need to mark.	TEP N
t JEX	Symbol for nature of supply, for d.c. only:	See marking plate for details or no need to mark.	Р
The .	Rated frequency or rated frequency range (Hz):	writ with me with	N
nnliek w	Rated current (mA or A)	See marking plate for details or no need to mark.	W PE
1.7.1.2	Identification markings	See below	P
ir. Aur	Manufacturer's name or trade-mark or identification mark	MOB	Р
ET INLIE	Model identification or type reference	MO9260	P
-	Symbol for Class II equipment only:	m m m	N
WALTER	Other markings and symbols:	Additional symbols or marking does not give rise to misunderstanding.	NR.T
1.7.1.3	Use of graphical symbols	The Mile Mile	N P
1.7.2	Safety instructions and marking		Р
1.7.2.1	General	The Marin W	Ps
1.7.2.2	Disconnect devices	Not directly connected to the mains.	and
1.7.2.3	Overcurrent protective device	Not such equipment.	N
1.7.2.4	IT power distribution systems	tet tet litet nite	N
1.7.2.5	Operator access with a tool	My My My And	N
1.7.2.6	Ozone	CENT TEN TEN STEET	ÚΝ
1.7.3	Short duty cycles	her her his me	N
1.7.4	Supply voltage adjustment	No voltage selector.	N
TEX	Methods and means of adjustment; reference to installation instructions	the state of	N
1.7.5	Power outlets on the equipment	with the Mer we	N



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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	White white white white	W N
1.7.7	Wiring terminals	See below.	N
1.7.7.1	Protective earthing and bonding terminals	TEX NITEX WITEX WAITER WA	KE N
1.7.7.2	Terminals for a.c. mains supply conductors	The state of	- N
1.7.7.3	Terminals for d.c. mains supply conductors	ALTER WITE WALLE WALL	√N′
1.7.8	Controls and indicators	See below.	P
1.7.8.1	Identification, location and marking	The function of controls affecting safety is obvious without knowledge of language etc.	NE P
1.7.8.2	Colours	For functional indication a LED lights when the equipment is operating.	P
1.7.8.3	Symbols according to IEC 60417:	of the tex Tex	N
1.7.8.4	Markings using figures	Will Mur My My	N
1.7.9	Isolation of multiple power sources	et et tet tet	ΔÑ
1.7.10	Thermostats and other regulating devices:	No such componentes provided	N
1.7.11 TE	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. and then again for 15 sec. with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade.	SE PONS VINLIER VINLIER
1.7.12	Removable parts	No removable part.	Ø N ≤
1.7.13	Replaceable batteries:	The Lithium type battery pack is Non-replacement.	N
MULT	Language(s):	- LIET WITE WHILE WALL	NL
1.7.14	Equipment for restricted access locations:	Not intended for use in restricted access locations.	N-

2	PROTECTION FROM HAZARDS		Pari
2.1	Protection from electric shock and energy hazards		Р
2.1.1	Protection in operator access areas	et the life outer out	Р
2.1.1.1	Access to energized parts	No hazard live part.	Р
WITE W	Test by inspection	TEX LIEX ALIER MITE	J.N



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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
- Cit	THE SILL WILL MALL MINE WILL		- 75
mr m	Test with test finger (Figure 2A)	LIFE MITE WALL WALL	N.N.
et i	Test with test pin (Figure 2B)	The state of	N
ir. Mur	Test with test probe (Figure 2C)	No TNV present.	N W
2.1.1.2	Battery compartments	The state of	(√N ×
2.1.1.3	Access to ELV wiring	No ELV circuit	N
MITER	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	tet itet stret stret str	er Trey
2.1.1.4	Access to hazardous voltage circuit wiring	No such component	N
2.1.1.5	Energy hazards:	No energy hazards in operator access area.	P
2.1.1.6	Manual controls	No manual controls.	√°N .
2.1.1.7	Discharge of capacitors in equipment	LANCE MAL MAL A	N
* TEX	Measured voltage (V); time-constant (s)	at at let .	
2.1.1.8	Energy hazards – d.c. mains supply	Write Mur. Mur. Mr.	N
TEX	a) Capacitor connected to the d.c. mains supply:	at at at se	N
N. V.	b) Internal battery connected to the d.c. mains supply :	weign with any was	N
2.1.1.9	Audio amplifiers	LIER WILLER WALLE WALLE	AL N W
2.1.2	Protection in service access areas	The state of the s	←N
2.1.3	Protection in restricted access locations	TEX LIFE OLIVE MILE WITH	N

2.2	SELV circuits		P
2.2.1	General requirements	(see appended table 2.2)	P
2.2.2	Voltages under normal conditions (V)	Within SELV limits	M P
2.2.3	Voltages under fault conditions (V)	L L	N
2.2.4	Connection of SELV circuits to other circuits:	SELV circuits are only connected to other secondary circuits. SELV circuit and all interconnected circuits separated from primary by reinforced insulation. The SELV circuit does not exceed the SELV limits under normal and fault conditions.	EK WALTER

2.3	TNV circuits		N .
2.3.1	Limits	No TNV circuits	N
L TEX	Type of TNV circuits	I IN IN SOME	× -16
2.3.2	Separation from other circuits and from accessible parts	mur mur and an	N
2.3.2.1	General requirements	LIER WILL WILL MAIL	W.N



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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.3.2.2	Protection by basic insulation	aliet outer outliet	WILL WIN
2.3.2.3	Protection by earthing	24, 24, 2	, N
2.3.2.4	Protection by other constructions	LIER OLIE WIFE ON	NN
2.3.3	Separation from hazardous voltages	1, 12, 1	+ N
WILL	Insulation employed	TEX NITE WITE WITE	Mus. Aus
2.3.4	Connection of TNV circuits to other circuits	70, 7	N
MULT	Insulation employed	ALTER WITE WALLE	Mur. Aur.
2.3.5	Test for operating voltages generated externally	24, 22, T	AL N

2.4	Limited current circuits		N
2.4.1	General requirements		
2.4.2	Limit values	A LEX	of N
Me	Frequency (Hz)	WILL MULL MULL MULL	-in
TEX	Measured current (mA)	The state of	
me 1	Measured voltage (V)	WITE WALL WALL MALL	w_
LEX.	Measured circuit capacitance (nF or µF)	A SHEET SHEET	1 to the second
2.4.3	Connection of limited current circuits to other circuits	Life while when were	N

2.5	Limited power sources		L P
MILL	a) Inherently limited output	X TEX WILL WILL MILL	N
et	b) Impedance limited output	An In It	N,+
rex .	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	(see appended table 2.5)	UN P
'N'	Use of integrated circuit (IC) current limiters	the sure of	N
* JE	d) Overcurrent protective device limited output	at the left of	EL N. T.
'EX	Max. output voltage (V), max. output current (A), max. apparent power (VA)	(see appended table 2.5)	- TEX
WILL.	Current rating of overcurrent protective device (A) ::	alter white wall wall	Mer

2.6	Provisions for earthing and bonding		N N
2.6.1	Protective earthing Class III apparatus.		
2.6.2	Functional earthing	LIER WILL MILL MILL M	Non-
t let	Use of symbol for functional earthing		+ N
2.6.3	Protective earthing and protective bonding conductors	it it while while whi	N
2.6.3.1	General	EN TEX TEX WIFE WIFE	J.N



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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.2	Circ of protective could in a could rate a	Let tet set	ALL
2.0.3.2	Size of protective earthing conductors	were were one	W.N.
LIEK IN	Rated current (A), cross-sectional area (mm²), AWG	TEX TEX TEX	NIEK NIEK
2.6.3.3	Size of protective bonding conductors	ice me in a	N
	Rated current (A), cross-sectional area (mm²), AWG	TEX WALTER WALTER WAL	EL MULTE MULT
WALTER	Protective current rating (A), cross-sectional area (mm²), AWG	t street writest own res	WITE WITE
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V), test current (A), duration (min)	MUTEX WAITER WAITER	MULTER WALTER
2.6.3.5	Colour of insulation	it it it	TEN JEN
2.6.4	Terminals	The war we	N ₂
2.6.4.1	General	at at a	* N
2.6.4.2	Protective earthing and bonding terminals	MULL MULL MULL	Zu N
MALTER	Rated current (A), type, nominal thread diameter (mm)	LIEK NIFEK MITEK	WILLER MITTER
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	TEX TEX STEX	ALTER NITH
2.6.5	Integrity of protective earthing	er Mer Mer 2	N
2.6.5.1	Interconnection of equipment	LET TEX JET N	NA NA
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth	White whi whi	Z _{II} ZN
2.6.5.4	Parts that can be removed by an operator	the state of the	N.Y
2.6.5.5	Parts removed during servicing	WI THE MALL	n N
2.6.5.6	Corrosion resistance	Life a self	THE SEN
2.6.5.7	Screws for protective bonding	or Mr In M	N N
2.6.5.8	Reliance on telecommunication network or cable distribution system	EX SITEX OUTER MILE	Et WILL

2.7	Overcurrent and earth fault protection in primary circuits		N
2.7.1	Basic requirements	Not directly connected to the mains	N-
	Instructions when protection relies on building installation	ing the text text	N
2.7.2	Faults not simulated in 5.3.7	of the write many many many	N
2.7.3	Short-circuit backup protection	1 A GH AFF A	N.C
2.7.4	Number and location of protective devices:	is anti-wate water war	N
2.7.5	Protection by several devices		N



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LIEK	IEC 60950-1		SEX SIE
Clause	Requirement + Test	Result - Remark	Verdict
	TEN WITH MILL MAN W. Y.		- 111
2.7.6	Warning to service personnel:	alie with white whi	20 N

2.8	Safety interlocks	LIEX OLIEN WITE WATER	N V
2.8.1	General principles	No safety interlocks	L
2.8.2	Protection requirements	TEX STER WITE WALTE	In Nu
2.8.3	Inadvertent reactivation	70. 7	N.
2.8.4	Fail-safe operation	ALTER OLITER MALTER	Wr. N
at .	Protection against extreme hazard	1/11 20	N.
2.8.5	Moving parts	LIEK WILE WILE W	N N
2.8.6	Overriding	711	, N
2.8.7	Switches, relays and their related circuits	TER STEE WITE WALL	WN NOW
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	TEK ITEK ALTEK	MIZE N
2.8.7.2	Overload test	Mr. M. M.	N
2.8.7.3	Endurance test	TEX TEX TEX	N N
2.8.7.4	Electric strength test	We was and	N
2.8.8	Mechanical actuators	LEX LEX CLEX	IN .

2.9	Electrical insulation		P
2.9.1	Properties of insulating materials	Only SELV circuits inside the equipment, therefore no requirement on the insulation (see also subclause 5.3.4).	P
2.9.2	Humidity conditioning	TE STEE WITE	N
	Relative humidity (%), temperature (°C)	14 14 14 14 14 14 14 14 14 14 14 14 14 1	
2.9.3	Grade of insulation	The adequate levels of safety insulation is provided and maintained to comply with the requirements of this standard.	EF WALL
2.9.4	Separation from hazardous voltages	Mr. Mr. Arriver	N
MILITE	Method(s) used:	TER LIFE NITE ANTE	NACTO

2.10	Clearances, creepage distances and distances through insulation		In P
2.10.1	General	Not directly connected to the mains	N
2.10.1.1	Frequency	in the the the	N
2.10.1.2	Pollution degrees	2	Р
2.10.1.3	Reduced values for functional insulation	See clause 5.3.4.	Р
2.10.1.4	Intervening unconnected conductive parts	LEX LEX LIET NITE	N



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TE	IEC 60950-1	the set of	ILIE ALI
Clause	Requirement + Test	Result - Remark	Verdict
2.10.1.5	Insulation with varying dimensions	LIER ALTER MITTER	WILL WAY
2.10.1.6	Special separation requirements	The Philips	N
2.10.1.7	Insulation in circuits generating starting pulses	ITER SITES OUTER	N
2.10.2	Determination of working voltage		⊥ ↓N
2.10.2.1	General	TEK LIEK OLIEK ONLE	N N
2.10.2.2	RMS working voltage	1112 111 121	- N
2.10.2.3	Peak working voltage	LIER STEE WILL	NIV JUN
2.10.3	Clearances	10, 10, 10	N-
2.10.3.1	General	LIET ALTER MITE	un'n
2.10.3.2	Mains transient voltages	" " " " " " " " " " " " " " " " " " "	. N
MULT	a) AC mains supply	TEX LIES NITES IN	Not Not
L at	b) Earthed d.c. mains supplies:	10 20	N
WALL	c) Unearthed d.c. mains supplies:	LIFE OLIFE MILE	N. N.
ı,	d) Battery operation:	In In In	N.
2.10.3.3	Clearances in primary circuits	LIEK ALTER WITER	WIN WIN
2.10.3.4	Clearances in secondary circuits	10, 10, 10, 10	L N
2.10.3.5	Clearances in circuits having starting pulses	TEX LIET WIFE	N N N
2.10.3.6	Transients from a.c. mains supply:	74, 70, 7	∠ N
2.10.3.7	Transients from d.c. mains supply:	TEX LIET WITE IN	NAL NAL
2.10.3.8	Transients from telecommunication networks and cable distribution systems:	* ret ret ret	F WITE NOTE
2.10.3.9	Measurement of transient voltage levels	Mr. Mr. M.	N
alier on	a) Transients from a mains supply	THE LIE	N N
	For an a.c. mains supply	4	N
TET INLT	For a d.c. mains supply	LL A TEX	JEN JEN
	b) Transients from a telecommunication network :	in the top to	N
2.10.4	Creepage distances	et let jet ji	N
2.10.4.1	General	Mrs. Mrs. Mrs.	N
2.10.4.2	Material group and comparative tracking index	- TEK TEK LITER	N. N.
10.	CTI tests	AND AND AND	70, -
2.10.4.3	Minimum creepage distances	LET TEX LIER	N Company
2.10.5	Solid insulation	mr mr m	N
2.10.5.1	General	LET TEX TEX	TEN NIN
2.10.5.2	Distances through insulation	in mr. m. m.	N
2.10.5.3	Insulating compound as solid insulation	et let let li	N ⁽¹
2.10.5.4	Semiconductor devices	Mur. Myr. M	N
2.10.5.5.	Cemented joints	et set set	N N



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- 1	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
2.10.5.6	Thin sheet material – General	ITEK LITER OLITEK	JUN N	
2.10.5.7	Separable thin sheet material	Ville In In	, N	
LIT WILL	Number of layers (pcs):	LIER NITER WITER	NITE WALT _ U	
2.10.5.8	Non-separable thin sheet material	1 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	L J-N	
2.10.5.9	Thin sheet material – standard test procedure	IEK SLIER WITE WAL	Nr. Nr.	
. At	Electric strength test	24	- 00	
2.10.5.10	Thin sheet material – alternative test procedure	ALTER WITE WALLE	Mr. M	
at a	Electric strength test	711 711	at At	
2.10.5.11	Insulation in wound components	ALTER WITE WALLE	n N	
2.10.5.12	Wire in wound components		A N	
MUT	Working voltage	TEN WITE WALTE WA	Non	
* 11	a) Basic insulation not under stress	A st st	* * N	
mr.	b) Basic, supplementary, reinforced insulation:	WITE WALL WALL	N N	
TEX	c) Compliance with Annex U		No.	
nu nu	Two wires in contact inside wound component; angle between 45° and 90°:	Write Auril Auri	an and	
2.10.5.13	Wire with solvent-based enamel in wound components	TER MILER WHILE A	N. N. N.	
EK OLIER	Electric strength test	at the the	TEX NIET ON	
70,	Routine test	The Me Me	N	
2.10.5.14	Additional insulation in wound components	A RH TEH TE	NA NA	
70, 2	Working voltage	me me m	N	
NITER IN	- Basic insulation not under stress	+ JH JEE	N. N.	
	- Supplementary, reinforced insulation:	167. My	N	
2.10.6	Construction of printed boards	LL ETE	TEN JOEN	
2.10.6.1	Uncoated printed boards	in the contraction	N	
2.10.6.2	Coated printed boards	ex sex sex si	N.C	
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	Must may my	N	
2.10.6.4	Insulation between conductors on different layers of a printed board	MULLE MULL MULL	Mr NN	
VII. MUF	Distance through insulation	LIER NITER WITE	ni n'N	
at all	Number of insulation layers (pcs)	11. 14. 15.	N	
2.10.7	Component external terminations	LIER ALTER WITE WA	PW PW	
2.10.8	Tests on coated printed boards and coated components	of the the the	× N	
2.10.8.1	Sample preparation and preliminary inspection	me me m	N	
2.10.8.2	Thermal conditioning	it lit lit	N N	



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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
, Elt	THE THE STILL WITH THE AND AND		Let LET
2.10.8.3	Electric strength test	atter niter unit	with with
2.10.8.4	Abrasion resistance test	201 20	, N
2.10.9	Thermal cycling	LIER WILL WILL WILL	N N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	et tet itet at	et NECN
2.10.11	Tests for semiconductor devices and cemented joints	in the text	N
2.10.12	Enclosed and sealed parts	ite with white whi	W W

3	WIRING, CONNECTIONS AND SUPPLY	it with whit and was	Р
3.1	General	at the late of	Р
3.1.1	Current rating and overcurrent protection	All wires are UL recognized wiring which is PVC insulated, rated VW-1, min. 60°C.	P N
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges and heat-sinks which could damage the insulation and cause hazard.	P
3.1.3 NO	Securing of internal wiring	The wires are secured by soldering, solder pins and quick connect terminals so that a loosening of the terminal connection is unlikely.	in b
3.1.4	Insulation of conductors	The insulation of the individual conductors are suitable for the application and the working voltage. For the insulation material see 3.1.1.	WALTEK WALTEK
3.1.5	Beads and ceramic insulators	Not used.	N
3.1.6	Screws for electrical contact pressure	No such screws provided.	N
3.1.7	Insulating materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws	Not used.	N
3.1.9	Termination of conductors		N
MUT.	10 N pull test	LIE WILL MALL MALL WALL	N/N
3.1.10	Sleeving on wiring	The state of the s	N-
3.2	Connection to a mains supply	EL WILL MILL MALL	N
3.2.1	Means of connection		N
3.2.1.1	Connection to an a.c. mains supply	" LIE" WILL WILL WILL W	Neg
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections	THE WALL WALL WALL WITH	N
3.2.3	Permanently connected equipment		N



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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
C. C.	tet att att mi wat m		at the
wer w	Number of conductors, diameter of cable and conduits (mm):	WALTER WALTE WALL	mr. mr.
3.2.4	Appliance inlets	TEX TEX LIEK O	LIE N
3.2.5	Power supply cords	be me me m	N
3.2.5.1	AC power supply cords	tex tex tier at	No.
, L	Type	. Mr. Mr. Mr.	
WILLE	Rated current (A), cross-sectional area (mm²), AWG	Whitek whitek white	Write Mari
3.2.5.2	DC power supply cords	A SET SET	AN ON
3.2.6	Cord anchorages and strain relief	write with while	N
TEX JU	Mass of equipment (kg), pull (N):	at at alt.	TEX TEX
10,	Longitudinal displacement (mm):	The war war	1, _2,
3.2.7	Protection against mechanical damage	at set se	× S N S
3.2.8	Cord guards	WUTT AUT AU	N N
MILIER	Diameter or minor dimension D (mm); test mass (g)	OLIEK WALTER	White Whater
EX	Radius of curvature of cord (mm):	1 1	et et
3.2.9	Supply wiring space	LIER OLIVE MITTER	N A

3.3	Wiring terminals for connection of external conductors	me m Nn
3.3.1	Wiring terminals	L N
3.3.2	Connection of non-detachable power supply cords	with while will
3.3.3	Screw terminals	N ⁺
3.3.4	Conductor sizes to be connected	FILL MUN A
LIEK WAL	Rated current (A), cord/cable type, cross-sectional area (mm²):	EK WILEK WILEK
3.3.5	Wiring terminal sizes	N
MULL	Rated current (A), type, nominal thread diameter (mm):	White Mul . Whi
3.3.6	Wiring terminal design	TEL TE NE
3.3.7	Grouping of wiring terminals	n n n
3.3.8	Stranded wire	LET SET SIN .

3.4	Disconnection from the mains supply	I N
3.4.1	General requirement	N
3.4.2	Disconnect devices	N
3.4.3	Permanently connected equipment	N
3.4.4	Parts which remain energized	N



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	IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
3.4.5	Switches in flexible cords	TEX SLIEF WILEY WINGER	WILL WIN		
3.4.6	Number of poles - single-phase and d.c. equipment	* Tet Tet Tet	STEF STEN		
3.4.7	Number of poles - three-phase equipment	are my my m	N		
3.4.8	Switches as disconnect devices	Et JET JET J	N/C		
3.4.9	Plugs as disconnect devices	m, mr m m	N		
3.4.10	Interconnected equipment	e- TEX TEX LIFE	N		
3.4.11	Multiple power sources	Tr. Mr. Mr. M.	N		

3.5	Interconnection of equipment	Mr. Mr. M. M.	Р
3.5.1	General requirements	THE THE LIFE OUTER OF	P
3.5.2	Types of interconnection circuits:	SELV circuits	Р
3.5.3	ELV circuits as interconnection circuits	TEX ITEX SLIFE OUT	N
3.5.4	Data ports for additional equipment	Mr. Mr. Mr.	Р

4	PHYSICAL REQUIREMENTS	Р
4.1	Stability	IN N
	Angle of 10°	N
	Test force (N)	Nuc.

4.2	Mechanical strength	ex tex trex with mit	Р
4.2.1	General	After following tests, the sample continues to complying relevant requirements.	PL
iet .	Rack-mounted equipment.	t st	N
4.2.2	Steady force test, 10 N	The way of	N
4.2.3	Steady force test, 30 N		√ N ∠
4.2.4	Steady force test, 250 N	250N applied to outer enclosure, no energy or other hazards.	P
4.2.5	Impact test	- ITER LITER OUTE MITE	NN.
·	Fall test	in in	N
ال. أنا	Swing test	TEX LIFE NITE WITE	N
4.2.6	Drop test; height (mm):	The equipment has been subjected to 3 drops from 1m height on a hard wooden surface. No hazards.	P
4.2.7	Stress relief test	No indication of shrinkage or distortion on plastic enclosure due to the stress relief test (70°C / 7hr).	UNLIEK UNLIEK



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IEC 60950-1				
Clause	Requirement + Test Re	sult - Remark	erdict	
4.2.8	Cathode ray tubes	LIET RUE MILET MILET WIL	N	
at a	Picture tube separately certified:	The state of	N	
4.2.9	High pressure lamps	EX OLIE JULIE MILL WILL	N 🕠	
4.2.10	Wall or ceiling mounted equipment; force (N):	The state of the s	N	

4.3	Design and construction	70	Р
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute hazard.	NP
4.3.2	Handles and manual controls; force (N):	in the state of	N
4.3.3	Adjustable controls	THE SITE WITE WALL WA	N
4.3.4	Securing of parts	No connection likely to be exposed to mechanical stress.	F P
4.3.5	Connection by plugs and sockets	m m m	N
4.3.6	Direct plug-in equipment	TEK ITEK SLIFE OLIFE	Ñ
4	Torque	in the the	74
LIE WY	Compliance with the relevant mains plug standard	TEX MUTER MUTE MUTE ON	N
4.3.7	Heating elements in earthed equipment	at left the title of	N
4.3.8	Batteries	See below.	Р
WALTER W	- Overcharging of a rechargeable battery	The overcharging voltage and current for battery pack are compatible with electrical characteristics of battery pack. See appended table 4.3.8.and table 5.3	P.T.
IL. WUT	- Unintentional charging of a non-rechargeable battery	THE WILL WILL	N
WALTE	- Reverse charging of a rechargeable battery	The battery is not reverse polarity installation is possible due to design of pack.	P
White wh	- Excessive discharging rate for any battery	The excessive discharge current for battery pack is compatible with electrical characteristics of battery pack. See appended table 4.3.8.and table 5.3	MP
4.3.9	Oil and grease	No heating elements provided.	N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No container for liquid or gas.	N
4.3.12	Flammable liquids	No such flammable liquid.	ωÑ.



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IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
Let .	THE THE STATE WITH MINE THE THE	4 4 4	et set	
NUT. NU	Quantity of liquid (I)	ALTER PALTER MALLE	IL ILN	
LET LE	Flash point (°C)	111 12	N	
4.3.13	Radiation	LIER WITE WALTE WA	N P N	
4.3.13.1	General		r P	
4.3.13.2	Ionizing radiation	LIEX WILE MULL MULL	m, Nu	
et	Measured radiation (pA/kg)	W. T. W.	10 - 10	
MUL M	Measured high-voltage (kV)	E WITE WITE WALTE	Mr. Mr.	
all i	Measured focus voltage (kV)	70 x 24	# # # # # # # # # # # # # # # # # # #	
ine mus	CRT markings	White White M	'n	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	the state of	et en	
L 1/4	Part, property, retention after test, flammability classification	White white whi	N ₂	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	LIER ALTER MITE	JULY NEW	
4.3.13.5	Lasers (including laser diodes) and LEDs	Indicator light	P	
4.3.13.5.1	Lasers (including laser diodes)	ITEX ALTER PALIE	UNIX WIN	
	Laser class	11. 211, 211,	, t	
4.3.13.5.2	Light emitting diodes (LEDs)	Only indicator light	P	
4.3.13.6	Other types	1/1/2 1/2	_ N	

4.4	Protection against hazardous moving parts		L N
4.4.1	General	No moving parts.	s.N
4.4.2	Protection in operator access areas	111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N+
write m	Household and home/office document/media shredders	THE WHITE WALL	or N
4.4.3	Protection in restricted access locations	IL TEX LITER	N N
4.4.4	Protection in service access areas	E Mr In In I	N
4.4.5	Protection against moving fan blades	et est test test out	N
4.4.5.1	General	The Mr. M. M.	N
ALTER .	Not considered to cause pain or injury. a)	- let let liet lie	N
TEX .	Is considered to cause pain, not injury. b)	Mar mar with the	N
ve m	Considered to cause injury. c)	WILL MULL MULL MULL	N N
4.4.5.2	Protection for users	L et et	√N √
41/2	Use of symbol or warning	LIE WILL WALL MALL WALL WILL	N
4.4.5.3	Protection for service persons	L A A A A	N N
Me	Use of symbol or warning	Will will will will	N



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IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	THE THE LITE WITH JULY AND THE	, <u>, , , , , , , , , , , , , , , , , , </u>	et let	
4.5	Thermal requirements	A SLIFE WITE WALL WALL	SU. P	
4.5.1	General	711 72	P	
4.5.2	Temperature tests	LIFE WITE WALLE WALL	AL P M	
et de	Normal load condition per Annex L		et— A	
4.5.3	Temperature limits for materials	(see appended table 4.5)	IL BU	
4.5.4	Touch temperature limits	(see appended table 4.5)	P.O.	
4.5.5	Resistance to abnormal heat:	e alter mile unit wh	JN	

4.6	Openings in enclosures	aliek wife while whi	M. P
4.6.1	Top and side openings	No openings.	N
MUL	Dimensions (mm)	TEL MITE MILITE WALL VI	11,5
4.6.2	Bottoms of fire enclosures		+ N
me	Construction of the bottomm, dimensions (mm)	WALLE MALLE WALL WALL	-ur
4.6.3	Doors or covers in fire enclosures		₩ Ne
4.6.4	Openings in transportable equipment	See below.	₩P
4.6.4.1	Constructional design measures	See below.	P
r. Mv.	Dimensions (mm)	No openings.	7 m - 1
4.6.4.2	Evaluation measures for larger openings	t at at	N.
4.6.4.3	Use of metallized parts	TER WITE WALL MAL WALL	N
4.6.5	Adhesives for constructional purposes		N
Mur.	Conditioning temperature (°C), time (weeks):	MILE WALL WALL WALL	- Till

4.7	Resistance to fire		on P
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability classes.	LIE'P W
y whitek	Method 1, selection and application of components wiring and materials	Selection and application of components and materials which minimize the possibility of ignition and spread of flame.	EK P
Wrize M	Method 2, application of all of simulated fault condition tests	Method 1 used only.	N
4.7.2	Conditions for a fire enclosure	et tet itet litet	ΔP
4.7.2.1	Parts requiring a fire enclosure	Write Mer Mrs. Mrs.	N
4.7.2.2	Parts not requiring a fire enclosure	et let let let of	JE P
4.7.3	Materials	in Mur Mu My My	N
4.7.3.1	General	PCB rated V-1 or better.	N
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1.	N



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TEX	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4.7.3.3	Materials for components and other parts outside fire enclosures	No such component.	SI N	
4.7.3.4	Materials for components and other parts inside fire enclosures	Inside of the fire enclosures components except small parts are flammability class V-2 or better.	ALT P W	
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N	
4.7.3.6	Materials used in high-voltage components	No high voltage component.	N	

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	Mr. M. M.	N
5.1.1	General	TEX LIEX NITER WITE N	N
5.1.2	Configuration of equipment under test (EUT)	An In In	, N
5.1.2.1	Single connection to an a.c. mains supply	ITEK SITEK MITE WAL	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	at the the right	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	with the the the	N
5.1.3	Test circuit	LIER WITE WALL WALL	N
5.1.4	Application of measuring instrument	t at at	√N.
5.1.5	Test procedure	TER WILL WILL MILL M	N
5.1.6	Test measurements		└ N
Mur.	Supply voltage (V)	MITE WALL WALL VIAL	in.
TEX	Measured touch current (mA)	The second second	764
in m	Max. allowed touch current (mA)	Whi Mur Mur	m_
CEX S	Measured protective conductor current (mA):	t het tet	TEX
Th.	Max. allowed protective conductor current (mA):	Vi Au In Aur In	
5.1.7	Equipment with touch current exceeding 3,5 mA	t it it it i	N
5.1.7.1	General	in whi we we	N
5.1.7.2	Simultaneous multiple connections to the supply	at at alt all	N
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	No TNV circuits.	N N
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	itex outex outex outex	TEL N
	Supply voltage (V)	In a task	× - <
MILL	Measured touch current (mA)	ix while while while whi	- Faller
ct	Max. allowed touch current (mA):	70, 20	



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TEX	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
,ex	THE THE LITE WITH ME THE		t let	
5.1.8.2	Summation of touch currents from telecommunication networks	White white white white	SI'N	
LIE MI	a) EUT with earthed telecommunication ports:	TEK TEK LIEK OLIFER	N	
Et JE	b) EUT whose telecommunication ports have no reference to protective earth	and the text text	N	

5.2	Electric strength	N
5.2.1	General	N
5.2.2	Test procedure	N

5.3	Abnormal operating and fault conditions	at the first field	Р
5.3.1	Protection against overload and abnormal operation	(See appended table 5.3)	P
5.3.2	Motors	No motor.	N
5.3.3	Transformers	No transformer.	N
5.3.4 s	Functional insulation	Method a) and c) used, but due to - Components are mounted on PCB rated V-1 or better. - No basic, supplementary or reinforced insulation inside. no test necessary.	NIP SLITER SUR
5.3.5	Electromechanical components	No electromechanical component.	N
5.3.6	Audio amplifiers in ITE	No such functional.	Ň
5.3.7	Simulation of faults	(see appended table 5.3)	Р
5.3.8	Unattended equipment	See below	Р
5.3.9	Compliance criteria for abnormal operating and fault conditions	Neither fire burns the equipment nor molten metal.	Р
5.3.9.1	During the tests	No fire propagated beyond the equipment. No molten metal was emitted.	P
5.3.9.2	After the tests	Class III equipment.	N

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	No
6.1.1	Protection from hazardous voltages	N
6.1.2	Separation of the telecommunication network from earth	N
6.1.2.1	Requirements	N



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IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
MULLER	Supply voltage (V)	alter outer uniter would	WALTER.	
et a	Current in the test circuit (mA)	and the state of	15	
6.1.2.2	Exclusions	LITER MITE WALL WALL V	N N	

6.2	Protection of equipment users from overvoltages on telecommunication networks	N
6.2.1	Separation requirements	N
6.2.2	Electric strength test procedure	N
6.2.2.1	Impulse test	N ^O N
6.2.2.2	Steady-state test	N
6.2.2.3	Compliance criteria	N

6.3	Protection of the telecommunication wiring system from overheating	
*	Max. output current (A)	4
White Wh	Current limiting method	WILL.

7 ,11	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	A LIER WILL WILL A	N W
7.1	General	All The State of	N
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	Whitek white white whitek	NINE
7.3	Protection of equipment users from overvoltages on the cable distribution system	t THE THE LIER OF	N
7.4	Insulation between primary circuits and cable distribution systems	Lit Left 3	N
7.4.1	General	Mr. Mr. M.	N
7.4.2	Voltage surge test		N K
7.4.3	Impulse test	WILL MULL MULL MULL	N

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	me me my
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	ALTER WALTER OF THE S
A.1.1	Samples	i mr m -m
L TEX	Wall thickness (mm)	+ 18+ 19 ³ + -176
A.1.2	Conditioning of samples; temperature (°C)	m m N
A.1.3	Mounting of samples	Net Net Net



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	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
A.1.4	Test flame (see IEC 60695-11-3)	W N
ot .	Flame A, B, C or D	1
A.1.5	Test procedure	N
A.1.6	Compliance criteria	√N .
Me	Sample 1 burning time (s)	- m
LEX.	Sample 2 burning time (s)	(1)
Mr.	Sample 3 burning time (s)	n.
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	W. N.
A.2.1	Samples, material	LIE-IN
4	Wall thickness (mm)	_
A.2.2	Conditioning of samples; temperature (°C)	N
A.2.3	Mounting of samples	N
A.2.4	Test flame (see IEC 60695-11-4)	N
20. 2	Flame A, B or C	<u></u>
A.2.5	Test procedure	N N
A.2.6	Compliance criteria	N
ELL	Sample 1 burning time (s)	16. — V
	Sample 2 burning time (s)	L - 1
MITTE	Sample 3 burning time (s)	NI-LIT
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	N
וחנולי מי	Sample 1 burning time (s)	Will.
	Sample 2 burning time (s)	-
The WALL	Sample 3 burning time (s)	117 _ N
A.3	Hot flaming oil test (see 4.6.2)	, N
A.3.1	Mounting of samples	N
A.3.2	Test procedure	N
A.3.3	Compliance criterion	UN

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N N
B.1	General requirements	No motor provided.	I N
- 20	Position	ir, Mur Mur Mur M	
POLIFE	Manufacturer	ex rex rest outer out	TILLY THE
7,,	Туре	The Mr. My Any	
NITE	Rated values	TEX TEX LITER NUTER	antite.



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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
, CH	THE SITE SITE SITE SITE SITE SITE	+ 11 x x x x x x x x x x x x x x x x x x	at the
B.2	Test conditions	alie mile mail	an' ann
B.3	Maximum temperatures	10, 1	N
B.4	Running overload test	LIEK WITER WITE W	N N N
B.5	Locked-rotor overload test		⊬ KN
MULL	Test duration (days)	liek writer antibandi	in an
at the	Electric strength test: test voltage (V)		- 1616
B.6	Running overload test for d.c. motors in secondary circuits	White White whi	W W
B.6.1	General	TEX LIER NITE	mile min.
B.6.2	Test procedure	my my m	N
B.6.3	Alternative test procedure	TEX TEX SITES OF	I N N
B.6.4	Electric strength test; test voltage (V)	1 24 24	N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	MULTER MULTER MULT	Mr. Nr.
B.7.1	General	et let let	JO NO
B.7.2	Test procedure	NUTT AND WELL	w N
B.7.3	Alternative test procedure	et et et	SEL SN
B.7.4	Electric strength test; test voltage (V):	The Maria Maria M	N
B.8	Test for motors with capacitors	at at all a	CE NO
B.9	Test for three-phase motors	The Maria Maria Maria	N
B.10	Test for series motors	t at at a	N.
24,	Operating voltage (V)	inti whi whi	2112

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	N
JEK N	Position	SLIFE SLIFE
	Manufacturer	211 21
	Type:	LIER WIE WILL
	Rated values	
MITE	Method of protection	ier wite with
C.1	Overload test	N
C.2	Insulation	N J
4	Protection from displacement of windings:	N

D	ANNEX D, MEASURING INSTRUMENTS FOR TOU (see 5.1.4)	ICH-CURRENT TESTS	X N
D.1	Measuring instrument	Mur. Mur. Mur. Mu.	N
D.2	Alternative measuring instrument	it let let liet	N



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TEN	IEC 60950-1	JET J
Clause	Requirement + Test Result - Remark	Verdic
UNLIEFE W	NITE WHITE WILL WAR AND WELL THE THE THE STIFF WITH WILL	ik Wiles
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N
ri Mur	WATER STEEL	MUC. 1
F SINLTEN	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)	n) EL-N
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N
G.1	Clearances	Ń
G.1.1	General Company of the little with the little	N
G.1.2	Summary of the procedure for determining minimum clearances	N CTEN
G.2	Determination of mains transient voltage (V)	, N
G.2.1	AC mains supply	N
G.2.2	Earthed d.c. mains supplies	No.
G.2.3	Unearthed d.c. mains supplies:	ANN.
G.2.4	Battery operation	N
G.3	Determination of telecommunication network transient voltage (V)::	N
G.4	Determination of required withstand voltage (V)	Nu Nu
G.4.1	Mains transients and internal repetitive peaks:	N
G.4.2	Transients from telecommunication networks:	N
G.4.3	Combination of transients	N.
G.4.4	Transients from cable distribution systems	N N
G.5	Measurement of transient voltages (V)	N
The WALL	a) Transients from a mains supply	N
<u> </u>	For an a.c. mains supply	N
MALIL	For a d.c. mains supply	N
	b) Transients from a telecommunication network	N
G.6	Determination of minimum clearances:	N
<u> </u>	A LER LER TER WITH WITH MIN MIN MIN MIN TO THE TOTAL THE	L .*
H	ANNEX H, IONIZING RADIATION (see 4.3.13)	N N
4 2	* ex ret itex intit with with with with with the	z.t
J while	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	No.
	Metal(s) used	

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8) Making and breaking capacity. No thermal limiter or thermostat		N +
K.1	Making and breaking capacity	No thermal limiter or thermostat	N



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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
K.2	Thermostat reliability; operating voltage (V):	alter outer opities outlied	N
K.3	Thermostat endurance test; operating voltage (V)	et Tet Tet Stet	N N
K.4	Temperature limiter endurance; operating voltage (V)	the the text text	N
K.5	Thermal cut-out reliability	The write mer and any	N
K.6	Stability of operation	at the set of	N N

ILTEK W	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	EK PE
L.1	Typewriters	N
L.2	Adding machines and cash registers	My Nan
L.3	Erasers	→ N
L.4	Pencil sharpeners	N N
L.5	Duplicators and copy machines	Not
L.6	Motor-operated files	WILL
L.7	Other business equipment Maximum normal load.	ı P

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N-N
M.1	Introduction	an Na
M.2	Method A	+ N
M.3	Method B	√N VN
M.3.1	Ringing signal	ot Not
M.3.1.1	Frequency (Hz)	nu_ 1
M.3.1.2	Voltage (V)	- 16th .
M.3.1.3	Cadence; time (s), voltage (V)	1/15 - 1/1
M.3.1.4	Single fault current (mA)	1 th - 16
M.3.2	Tripping device and monitoring voltage:	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	TE NEK
M.3.2.2	Tripping device	L N
M.3.2.3	Monitoring voltage (V):	JULY N

N we	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)				
N.1	ITU-T impulse test generators	TER SITE NITE			
N.2	IEC 60065 impulse test generator	N			



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	150 00050 4	,t
and the	IEC 60950-1	16. (1)
Clause	Requirement + Test Result - Remark	Verdic
P	ANNEX P, NORMATIVE REFERENCES	M
. 	EX TEX ITEX SUTE WILL WAS THE THE THE TEXT OF THE TEXT	et
Q JU	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	s N
+ 10	- Preferred climatic categories:	.d⊢N
ME	- Maximum continuous voltage:	N
et	- Combination pulse current:	- N
MULT.	Body of the VDR Test according to IEC60695-11-5	ØN €
NITE W	Body of the VDR. Flammability class of material (min V-1)	M
EX J	EX NITE MILL WILL WILL WILL WILL WILL THE THE	LIEK
R S	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	N
R.2	Reduced clearances (see 2.10.3)	N
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N
S.1	Test equipment	N
S.2	Test procedure	N
S.3	Examples of waveforms during impulse testing	N
T T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N
1. V	The Total Control of the Total	70,
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	N
"ALL	Who are test itest writes and test and	7 70 1
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N
V.1	Introduction	N
	TN power distribution systems	N
V.2		
V.2 W	ANNEX W, SUMMATION OF TOUCH CURRENTS	II NIII
W W	ANNEX W, SUMMATION OF TOUCH CURRENTS Touch current from electronic circuits	N
ek si		

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	IEC 60950-1	EX LIFE
Clause	Requirement + Test Result - Remark	Verdict
W.2	Interconnection of several equipments	JUN
W.2.1	Isolation	N
W.2.2	Common return, isolated from earth	N
W.2.3	Common return, connected to protective earth	⊢ N
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	N N
X.1	Determination of maximum input current	N
X.2	Overload test procedure	Ň
	A THE THE DESTRICT WHITE WAS THE TOTAL	
Ý	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	J. N. J.
Y.1	Test apparatus:	N
Y.2	Mounting of test samples:	N
Y.3	Carbon-arc light-exposure apparatus:	N
Y.4	Xenon-arc light exposure apparatus:	, N
	of the state of the state of the state of	
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	, P
d 1	ANNEY AS MANDREL TEXT (See 9.40 F.9)	Ket II I
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	
20,	A CH TEX TEX WITH WHITE WAS MAD WAS THE	- ZV-
СС	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	Ñ
CC.1	General	N
CC.2	Test program 1	Ú N. J
CC.3	Test program 2:	N
CC.4	Test program 3:	N
OO.1	Compliance	
CC.5	Compilation	N
-0,	unt un un the lite lite lite alter	N
CC.5	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	N
CC.5	White White Mill with the let let let little white white	MULIE
DD.1	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	N_
$-\sigma_{n}$	ANNEX DD, Requirements for the mounting means of rack-mounted equipment General	N N
DD DD.1 DD.2	ANNEX DD, Requirements for the mounting means of rack-mounted equipment General Mechanical strength test, variable N	N N N



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IEC 60950-1						
Clause	Requirement + Test	Result - Remark	Verdict			
, ex	the ite is the way	1 1 1	at let			
EE.1	General	alter while while	WIN WIN			
EE.2	Markings and instructions	In 22	N			
in whi	Use of markings or symbols	SLIER WILL MILL MI	N N			
ek mite	Information of user instructions, maintenance and/or servicing instructions:	cet tet tet au	Et IN EX N			
EE.3	Inadvertent reactivation test:	in the m	N			
EE.4	Disconnection of power to hazardous moving parts:	MILIER WALTER WALTER	MULLE MINT			
TEX	Use of markings or symbols:	at at att	N N			
EE.5	Protection against hazardous moving parts	WILL MULL MULL	N N			
CEX J	Test with test finger (Figure 2A)		AN SEN			
Th.	Test with wedge probe (Figure EE1 and EE2):	White Wall MA	N ₂₀			





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IEC 60950-1

1.5.1 T	5.1 TABLE: List of critical		l components			
Object/part No	. Manufacturer/ trademark	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Standard (Edition / year)	Mark(s) of conformity ¹)	
Plastic Enclosure	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	ANC100	V-0, 80°C	UL 94	UL White w	
PCB	Interchangeable	Interchangeable	Min. V-1, Min. 105°C	UL 796, UL94	UL"	
Battery	SHENZHEN BETTER POWER COMPANY LIMITED	602030	3.7V, 300mAh, Max. charge current: 0.3A	IEC/EN 62133	WSCT Report (WSCT150900 1102BS)	
Speaker	Interchangeable	Interchangeable	4 ohm	LIFE WALLE	- mr m	

Supplementary information:

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

1.5.1	TABLE: Opto Electronic Devices	w N
Manufactur	rer:	LIER WILEY
_		
Type		
Separately	tested	
	sulation:	
External cre	eepage distance	
until un	THE THEFT	
Internal cre	eepage distance:	
Distance th	nrough insulation:	
X TEX	THE WIFE WIFE MAIL WALL MY MY WELL THE	
Tested und	der the following conditions:	Mr. Mr.
	THE	TEX TEX
Output	The state of the s	WL, ML
supplemen	ntary information	at at

1.6.2 TABLE: Electrical data (in normal conditions)						P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
5VDC	0.23	White Nuite	1.15	t EK	NITEK WAL	Charging for Empty battery by USB port; Speaker with max. non-clipped output power.
3.7VDC	0.24 (Battery)	Mur. A	0.89	, Et	TEX - TEX	Speaker with max. non-clipped

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Supplementary information: --

		71. 70. 7.
- TEK STEK NITER SOLI	IEC 60950-1	
1/12 1/11 1/11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The wind we will
L CH CH CH	TEN SITE WALL VIA V	output power powered by battery.

2.1.1.5 c) 1)	TABLE: m	nax. V, A, VA test	x altex multex	WALTER WALTER	mile mile of the N of
Voltage (V	(rated)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
LIEN O	TER MITE	white-whi	Mr. 74	- Total	of the the state of the state o
supplementa	ary informati	on:			mer my m

2.1.1.5 c) 2)	TABLE: stor	ed energy	MULT AND AND AND	N
Capacitance C (µF)		Voltage U (V) Energy E (.		L 14
t while t	ALTER JALIE	MILITA	The set set of	EK NI
supplementa	ary information	TEX TEX DUTE	whi we we will	70

2.2	TABLE: evaluation of voltage limiting	TABLE: evaluation of voltage limiting components in SELV circuits					
Compor	nent (measured between)	max. voltage (V) (normal operation) V peak V d.c.		Voltage Limiting Compon			
Et W	Ex Writer Writer And Andrew			of let tet	LTEX O		
70,	the life is the state of the st	310	in wer	Mus Mr. M.	<u>, t </u>		
	with the man of		t at	TEX TEX II			
Fault tes	st performed on voltage limiting components	Vol		sured (V) in SELV circu peak or V d.c.)	its		
inc. 1	10 20 A	المالية	W.	TE WALL WALL	Me		
TEX.	The And And	201	.d_	at tet	TEX		
supplem	entary information:						

2.5	TABLE: Limited power sources					
Circuit output	tested: Battery ou	tput "+" to "-"		it let l	EX TEX	LIEK WIFE
Note: Measure	ed Uoc (V) with all	load circuits di	sconnected: Se	ee below	1/12 1	7.
Components	Test condition	Uoc (V)	I _{sc} (A)		VA	
	(Single fault)		Meas.	Limit	Meas.	Limit
Battery output	Normal	4.21	2.5	8	7.4	100
supplementar	y information:	EX WITE ON	TI MULT	no m	20, 4	
Sc=Short circu	uit, Oc=Open circu	uit				

2.10.2	Table: working voltage measurement	W.	
A 100			



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П	\sim	00	VO.	റ-1
- 11-	٠.	nı	145	N()- I

2.10.2	2.10.2 Table: working voltage measurement							
Location	21/2 21/	RMS voltage (V)	Peak voltage (V)	Comments	WILL	NUT.		
it it	+ LIEY NIEK	With White My	24, 24,	7 4	- et	TEX.		
ir. Mur	24, 24, 3	L IX III	LIER RITER	nlie white	MULT. M	111		
supplement	ary information:	in while were	111 111	t it	LET S			

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements							
	cl) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Functional:	LEK TEK	LIEK NI	ELVINIT	Mr. Mur	w	20, 7	at .	
ir will	Mur. Mr. 1	1 10	ex	LEK JEK	LIER	LIFE MILLE	WILL MY	
Basic/supple	ementary:	TEX		AL MI	A. A.	1	et de	
WIT. M	in my			(E)	CLIER IN	in white w	NE WAL	
Reinforced:	EX LIEK NI	MITE	unit wi		, J.	L X	et let	
mr. mr	20, 20,			4 6	IER WITE	white whi	MUL	
Supplement	ary information:	ALTE	A A			et el	- TEX	

2.10.5	TABLE: Distance through insulation measurements					
Distance th	rough insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
10, 1	it it let tet in	The Wife o	الاستأما	r. 110	m n	. 4
NITER NA	White the same of			45	LIEK NITE	MITE
Supplemen	tary information:	ا الله الناماء	, ,,,		201, 201,	4
IE NIE			4		TEX LITER	WITE.

4.3.8	TABLE:	TABLE: Batteries							
The tests of data is not		applicable	only when ap	propriate t	oattery	WALTER.	WALTER W	Wife Mi	P
Is it possib	le to install	the battery	in a reverse ¡	polarity po	sition?	Et	TEX V	IEK NITE	Р
10, 4.	Non-re	chargeable	e batteries		WILL	Rechargeal	ble batterie	es	
ALTEK WALT	Discharging		Un- intentional	Charging		Discharging		Reversed charging	
FEX MITEN	Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	INLIEN VIN	TEX WHITE	WALLEY WAL	0.25	0.3A	0.24A	0.3A	iter Ter Muli	* MALTE



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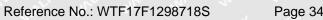
IEC 60950-1

4.3.8	TABLE:	Batteries							P
The tests of data is not		applicable	only when ap	propriate l	oattery	ounlife vini	TER WALT	MULL	WP.
Is it possib	le to install	the battery	in a reverse	polarity po	sition?	-et 1	Y TEX	CLIER	P
	Non-re	chargeable	e batteries	LIET N	N. W.	Rechargeal	ble batterie	es	
MULTER	Disch	arging	Un- intentional	Cha	rging	Disch	arging	Reve char	
NATEK N	Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during fault condition (Battery P- to B- short- circuit)	EK WALTER WALTER WA	WALTER WALT	Mitek Whitek	0.25	0.3A	0.24A	0.3A	Whitek Whitek Whitek Whitek	unitek itek unit
Test result	TEX WIT	EXTURITY	MALIE WAL	, My		N. AE		CH CEN	Verdict
	· ·	.4			A	No	- n	70.	P
- Chemical	- 42	21/1/2	V.	<u> </u>	164	No	<u> </u>	- NIET	
- 1	of the batt		it i				2/1/2	70, ,	Р
- Emission	of flame or	expulsion	of molten me	tal		No	LEX.	JEK .	Р
- Electric s	trength test	ts of equip	ment after con	npletion of	tests	- While	MUL	ne an	N
Supplemen	ntary inform	nation:	N.			- ct	TEX	TEX IT	NALTE

4.3.8 TABLE: Batteries	TE STEE STEE ON N
Battery category N	lo such battery
Manufacturer:	
Type / model:	
Voltage:	
Capacity:	
Tested and Certified by (incl. Ref. No.):	
Circuit protection diagram:	t let tex itex with with white white
SLIEK WILLER WHITER WHITER WHITER WHITE	MAL WALL AND TO THE STEEL WITHER WITHER THE
MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	No such battery
Language(s):	N We ALL THE TO THE THE THE
Close to the battery	N TEX TEX STEET NEITER MILITE MILITER MILITERS
In the servicing instructions	Nur w w t
In the operating instructions:	N TEX LIEX SLIER WIFE WHILE WALL WALL

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4.5	TABLE: Thermal re	equirements						P
TEX N	Supply voltage (V)		: C	harging for battery		Dischargir batte		NITER
- 70,	Ambient T _{min} (°C)		NALIE N		Up. Mr.	711	10, - 1	
NITE	Ambient T _{max} (°C) .	Ambient T _{max} (°C)				Et Je	LIER	NIET W
Maximum measured temperature T of part/at:				nlik wal	T (°	C) 3/17	The Co	Allowed T _{max} (°C)
Plastic enclosure outside			EX N	45.1	MILIT	47.	.1	95
Plastic enclosure inside				55.9	_+	49.	.86	TIEF
PCB nea	r U1	et et	OLIE	63.3 48.2		2	105	
PCB nea	r U4	Tr. Mur.	40	66.8	.8 47.2		2	105
PCB nea	r U3	EK "	- 102	54.2	آلون م	61.2		105
Battery b	ody			50.8		44.9		LIE - NI
Battery p	rotection board	ITEK O	IFE NO	54.7	MUL	46.	.7	105
Ambient	Write Mary Aug	2015 201		40.0	EK	40.	.0 5	NI LIL
Suppleme	entary information:	TE TO	10		n.	1/1 1/		. *
Tempera	ture T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R_2 (Ω	2) T (°C)	Allowed T _{max} (°C)	Insulatio n class
Et alie	WILL WALL A	2/15-	0.7	/	×	16 - 16	F CHEN	111ER 101
Suppleme	entary information:	AL STE	LIE	NA.	" "	r. Mur.	20, 2	

4.5.5	TABLE: Ball pressure test of thermoplastic parts					
WILL O	Allowed impression diameter (mm):	≤ 2 mm	TER WITE WITE			
Part	ter for any one	Test temperature (°C)	Impression diameter (mm)			
72,	I SE SEX LIFE WITH WILL WE	in in	20, 20, 20,			
Supplem	nentary information:					

4.7 TABL	E: Resistance to fire				N.
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
		alter unite of	Uril Muri	mr m	20,
Supplementary inf	formation:	1/2, 1/1, 1	1 1	et et	CER

5.1	TABLE: touch curre	ent measuremen	t A	TEX JEX NITER WITE	N
Measured b	petween:	Measured (mA)	Limit (mA)	Comments/conditions	LITER

10			2)	
	A		A	١
U		X		l

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	it. While whi	IEC 60950-1			
The The Table		L LET LE			The Min
	ALTER MITE	Mr. Mur	10. 10.		
Muri Mur Mur Mu		LEX LEX	LIER OLIER	WILL W	ILL WILL.
supplementary information:	WITE WITE	me me	10, 20		et et

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests						
Test voltag	e applied between:	Voltage shape (AC, DC, impulse, surge)	voltage Breakdo (V) wn Yes / No				
Functional:	at left test trest	write white war were with	4, 4				
NITER WILL	WILL ME ME ME	A SH THE THE STEE	CLIEF ARLIE				
Basic/supp	lementary:	WILL MULL MU MU MILL MILL	70. 7				
IE. WALTE	MULL MULL MILL MILL	A A THE STATE OF THE	WILL WILL MA				
Reinforced	EX TEX TEX	are any and any	1 1				
MILL	MUEL MUEL MILE	L TEX STEEL STEEL STEEL	TE WY! WILL				
Supplemer	ntary information:	Any Any Any	t et et				

5.3	TABLE: Fault of	ondition tes	sts			t at a	Р	
ir wir						unless otherwise fied	3/n ² _3	
MULITE	Power source for output rating				ni er	lifet white white while	<u> </u>	
Componen No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	inlife	
Battery B- to P-	S-C	5VDC	7H	r mir		Unit works as normal, and no damage, no hazard.		
Speaker	s-c	5VDC	10 mins	L TEX	,	Unit shut down immediately, a recoverable, no hazard.		
USB output port	S-C	5VDC	10 mins	W.	VEF	Unit shut down immediately, a recoverable, no hazard.		
Battery B- to P-	S-C	3.7VDC	7H	one:- N	×	Unit works as normal, and no damage, no hazard.		
Speaker	S-C	3.7VDC	10 mins	Life - Whi	177	Unit shut down immediately, an recoverable, no hazard.		

C.2	TABLE: transform	ers					m.	N
Loc.	Tested insulation	Working voltage peak / V	Working voltage rms / V	Required electric strength	Required clearance / mm	Required creepage distance /	. A.V.	uired ince thr. l.
MITER	In Item WALTE WALTE	(2.10.2)	(2.10.2)	(5.2)	(2.10.3)	mm (2.10.4)	(2.10	0.5)

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		\mathbf{I}		ľ
d	V			

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TEX	ALTER JALTER STALL	June Jun IEO	C 60950-1		et et	TEK ST
"VILLE	THE THE LIFE	Lifet and	white write		olur.	
Loc.	Tested insulation	TEK WALTER WALT	Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr insul. / mm; number of layers
supplem	nentary information:	White writes	TES STEEL	whi wh	- William	TEX WALTE

C.2	TABLE: transformers	White W	VII.	Mr	In.	211.	N	
Transforme	or all with which we will	4	<i>*</i> +	.c.t	ZEX.	JEK	LIER	[2]

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





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ď	t itet i	TEX NITER WITER	IEC 60950-1 – Attachment		
	Clause	Requirement + Test	ex rex alter miter	Result - Remark	Verdict

	Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"	LIEP
Contents (A2:2013)	Add the following annexes: Annex ZA (normative) Annex ZB (normative) Annex ZB (normative) Annex ZD (informative)	P
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list: 1.4.8 Note 2 1.5.1 Note 2 & 3 1.5.7.1 Note 1.5.8 Note 2 1.5.9.4 Note 1.7.2.1 Note 4, 5 & 6 2.2.3 Note 2.3.2.1 Note 2 2.3.4 Note 2 2.3.2.1 Note 2 2.3.4 Note 2 2.6.3.3 Note 2 & 3 2.7.1 Note 2.10.3.2 Note 2 2.10.5.13 Note 3 3.2.1.1 Note 3.2.4 Note 3 3.2.5.1 Note 2 4.3.6 Note 1 & 2 4.7 Note 4 4.7.2.2 Note 4.7.3.1Note 2 5.1.7.1 Note 3 & 4 5.3.7 Note 1 6 Note 2 & 5 6.1.2.1 Note 2 6.2.2 Note 6.2.2 Note 7.1 Note 3 7.2 Note 7.3 Note 1 & 2 G.2.1 Note 2 Annex H Note 2	MALEX MITEX MALEX MALEX MALEX
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list: 1.5.7.1 Note 6.1.2.1 Note 2 6.2.2.1 Note 2 EE.3 Note	P
General (A2:2013)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A2:2013) according to the following list: 2.7.1 Note * 2.10.3.1 Note 2 6.2.2. Note * Note of secretary: Text of Common Modification remains unchanged.	NALLEY WALTER
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For television sets EN 60065 applies.	EK P



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	IEC 60950-1 – Attachmen	t t	
Clause	Requirement + Test	Result - Remark	Verdict
1.3.Z1 JUNE LIEK WILLER WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER	Add the following subclause: 1.3.Z1Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	LIER WHITE W	WAN LIEK WALTER WALT WALTER WALTER
(A12:2011)	In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	TER MUTER MUTER MUTER AN	III III
1.5.1 (Added info*)	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	unitek whitek whitek whitek	PIE
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.	W FULLY WILLER	CIEN W
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	WILE MALE MALLER WALLER	N
	Zx Protection against excessive sound pressure	from personal music players	N



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	IEC 60950-1 – Attachmer	nt the	
Clause	Requirement + Test	Result - Remark	Verdict
Writh M	Zx.1 General	NITES WHITES WHITES	ni WN
	This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.	TEX WHITEK WHITEK WHITE	tex writex w
	A personal music player is a portable equipment for personal use, that:	MILLER WALLER WALLER	WALTE WALTE
	 is designed to allow the user to listen to recorded or broadcast sound or video; and 	LIEK WLIEK WALTER W	LIEK WALTER.
	 primarily uses headphones or earphones that can be worn in or on or around the ears; and 	et tet tret sti	EX WITEX
	 allows the user to walk around while in use. 	AUT MU MILL	7
	NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.	Whitek whitek whitek	whitek whitek
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.	TEX WRITER WRITER WA	TEX MITER OF
	The requirements in this sub-clause are valid for music or video mode only.	While while while	white white
	The requirements do not apply:	m. m. m.	it lit
	while the personal music player is connected to an external amplifier; or	TE WHITE W	NITE WALL
	 while the headphones or earphones are not used. 	THE MILES	IEK WILLER W
	NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.	Whitek Whitek Whitek	ount ex ount
	The requirements do not apply to:	mer were my	
	hearing aid equipment and professional equipment;	ITEK MILIEK WALTEK WA	LIER
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	It whitek whitek white	it mark m



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IEC 60950-1 – Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
WALLER AND	 analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015. 	NUTER WHITE WHITE W	N N
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	Whitek Whitek Whitek	unite united
UNITEK WAS	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	riek murrek murrek m	LIFEK WALTER
TEK OLTE	Zx.2 Equipment requirements	ex rex rex ri	N
	No safety provision is required for equipment that complies with the following:	my my my	
	 equipment provided as a package (personal music player with its listening device), where 	WHITE WALTER WHILE	Mur Mur
	the acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and	Nited Whites Whites	INLIE WILLE
	 a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. 	t water water water	AND LEK MUZE
	NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx.	whi whi white	in the state of th
	All other equipment shall:	The state of the s	in which we
	a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and	MULTER WHITER WHITER	mi ex mi
	b) have a standard acoustic output level not exceeding those mentioned above, and	LIEK NIEK WITEK	UNLTEX WALTER
	automatically return to an output level not exceeding those mentioned above when the power is switched off; and	TEX WITER WITER W	LIEK WITEK



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Clause	Requirement + Test	Result - Remark	Verdic
Ziddo0	1. Oquilotti i Toot	TOOMIT TOTTION	Volule
المارية المار	c) provide a means to actively inform the user of	TER JET SLIFE	W.N.
	the increased sound pressure when the	14 M. M. A	
	equipment is operated with an acoustic output	1 1 24	LET LET
	exceeding those mentioned above. Any means	LEK LIE OLIV IN	
	used shall be acknowledged by the user before	in the man	
	activating a mode of operation which allows for an	1 1 1 1 1	* Et
	acoustic output exceeding those mentioned above.	LIER WITH WITH	"ne "ne
	The acknowledgement does not need to be	The In In	
	repeated more than once every 20 h of cumulative	t at at	
	listening time; and	LIER SLIP MILL	Wr. Mr.
	NOTE 2 Examples of means include visual or	24 24 25	
	audible signals. Action from the user is always	1 A A	LET LET
	required.	TEL SITE SITE	Vr. NVr.
	NOTE 3 The 20 h listening time is the	Le Mil Mil M	
	accumulative listening time, independent how	1 4 4	Et TEX
	often and how long the personal music player has	CERTIFIC WITH WI	· " " " " " " " " " " " " " " " " " " "
	been switched off.	an an an	
	d) have a warning as specified in Zx.3; and	1 1 1	t alt
	e) not exceed the following:	LIE SILE WILL	an an
	1) equipment provided as a package (player with	The The The	
	Its listening device), the acoustic output shall be ≤	1 A At	- LEY . LE
	100 dBA measured while playing the fixed	TER SITE OLIVE	MUT. WILL
	"programme simulation noise" described in EN	Ve My My	
	50332-1; and	1 A ct	TEX TEX
	2) a personal music player provided with an	TER LIER OLIVE	
	analogue electrical output socket for a listening	11, 11, 12,	
	device, the electrical output shall be ≤ 150 mV		et ket
	measured as described in EN 50332-2, while	the liter will will	in in
	playing the fixed "programme simulation noise"	The Mr. M.	3.
	described in EN 50332-1.	t t	- K
	For music where the average sound pressure	TER ALTE BLICE	WILL WILL
	(long term LAeq,T) measured over the duration of	The Mr. M.	
	the song is lower than the average produced by		LEY LEY
	the programme simulation noise, the warning does		Wr. Wr.
	not need to be given as long as the average sound	20, 2	
	pressure of the song is below the basic limit of 85	1	LEY LEY
	dBA. In this case T becomes the duration of the	11, 12,	, N. T.
	song.	111 111 111	
	NOTE 4 Classical music typically has an average	x x 2	F Et
	sound pressure (long term LAeq,T) which is much	LIE WITE MIL	in in
	lower than the average programme simulation	2/1, 2/1, 2/1,	
	noise. Therefore, if the player is capable to	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEX T
	analyse the song and compare it with the	LIE SLIE BLIL	NUT. MUT.
	programme simulation noise, the warning does not	14, 24, 24,	
	need to be given as long as the average sound	1 st st	TEX TEX
	pressure of the song is below the basic limit of 85	TER LIFE RITE	Y' JULY
	dBA.	211. 211. 20	
	For example, if the player is set with the	1 1	Et LET
	programme simulation noise to 85 dBA, but the	LE LIE WILL WILL	יייי ייון
	average music level of the song is only 65 dBA,	Mr. Mr. Mr.	
	there is no need to give a warning or ask an	1 1 1	- 194
	acknowledgement as long as the average sound	TEL LIE GLIL	anti wat
	level of the song is not above the basic limit of 85	we we we	2,
	dBA.	the state of	LEY LEY



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Clause	Requirement + Test		
		Result - Remark	Verdict
untited water	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: - the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar: "To prevent possible hearing damage, do not listen at high volume levels for long periods."	LIET WHITE W	AND NON NON NON NON NON NON NON NON NON N
yntiek wnitek wnitek wnitek wnitek	Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	MUNITER MULTER WHITER W	
41/2 4	Zx.4 Requirements for listening devices (headpl	hones and earphones)	N
INLIEK WALTER WALTER WALTER WALTER WALTER	 Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control). NOTE The values of 94 dBA – 75 mV correspond 	TEK WALTER WALT WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER WALTER	EK WAIRK WALLER



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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	Verdict
WALLEY WA	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. This requirement is applicable in any mode where the headphones can operate, including any	iet united united un	ILL WIN
	available setting (for example built-in volume level control, additional sound feature like equalization, etc.). NOTE An example of a wired listening device with	EX MILIER WHITEK WHI	nifer miles
AUT.	digital input is a USB headphone.	CLIEK WILLER WILLE	The sur
.ex	Zx.4.3 Wireless listening devices In wireless mode:	14 12 X	N
	 with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and 	NITER WHITE WHITE	unit walk
iek whiek	 respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and 	t after writer whi	ex unitex un
JUNITER JUNITER	 with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. 	antiek untiek whitek	JUNITE WALTER
ex waltex	NOTE An example of a wireless listening device is a Bluetooth headphone.	Who will the	t write wri
	Zx.5 Measurement methods	201 201 2	N
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.	united whited united.	unite mil
TEX WALTER	NOTE Test method for wireless equipment provided without listening device should be defined.	A MULTER MULTER MULT	EX M. TEX M.



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, CIV	IEC 60950-1 – Attachmen		
Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows: Basic requirements	NITER WALLEY WALLEY	N
	To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	EX WAITER WAITER WAITER	n Nifek W
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;	WALLER MALIER WALTE WALL	MITER
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	et whitek whitek whitek	urtiex or
WALTER WALT	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT	alie will will will	N Whitek Whitek Whitek Whi
MULTER	TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	MITEL WILLER WILLER WILL	WALTE
2.7.2	This subclause has been declared 'void'.	LE SE SE	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	The July Aug	N N
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".	MILEK MILIEK MULTER M	
	In Table 3B, replace the first four lines by the following:	MILIER WHITER WHITER WALF	WALTER
	Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5	TEX WILLER WILLER	ANTIEK V
	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} . In NOTE 1, applicable to Table 3B, delete the	white wait while a	
W. 1	second sentence.	antic write and and	W.
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	TEX STEX STEX MITE	K N.K



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	IEC 60950-1 – Attachmen	nt de la	
Clause	Requirement + Test	Result - Remark	Verdict
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:	NITER WALTER WHITE!	min wh
	Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A	iek whitek whitek wh	TEX WITE W
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).	Whitek wh	WALLE WALLEY WILLEY WELLEY WELLEY WELLEY WALLEY
	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	MULTER MULTER MULTER	while while
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows:	NUTER WHITER WHITER	untile un N
	NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	white white will	WA WA
Bibliography	Additional EN standards.	Will My My	11, 12,

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	_
TEX TEX	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	

ek waltek w	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)		
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	united multer multer whiter white	
1.2.13.14 (A11:2009)	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	THE WALL WALL WALL AND N	
1.5.7.1 (A11:2009)	In Finland, Norway and Sweden, resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	Whitek whitek whitek whitek wh	



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Clause	Requirement + Test	Result - Remark	Verdict
Old doc	Troduit Tool	Troodic Tromain	Volume
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	NITER WHITE WHITE W	nui win
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	to the steet with	N N
	In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Whitek whitek whitek w	N MALTE WALTER MITER MITER MALTER MALTER
	In Norway : "Apparatet må tilkoples jordet stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag"	WILEY MILES MILES	united whites
1.7.2.1 (A11:2009)	In Norway and Sweden , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.	TEX WHITE WH	
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.	TEX WILLIAM	nitek white sex sitex .
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	White white white	t write wri
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."	Inches whiles whiles while whi	WILLEY WILLEY LIFEY WILLEY W



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IEC 60950-1 – Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
oneries on	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	ALIEK WALTER WALTER WALTER	N N
	Translation to Norwegian (the Swedish text will also be accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via	whi whe will a	
	nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."	iner mer merek merek	ex unitex
	Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan	TEX STER WITER	nitex whit
	utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr	TEX TEX STEEK ON	TEX MILIEX
	brand. Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät	inti wat was the	t liex
	galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	ite mill mi me	71/2 J
1.7.2.1 (A2:2013)	In Denmark , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.	JUNITER WHITER WHITER	an it Na Lift anite ex anitex
	The marking text in Denmark shall be as follows: In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."	The supplies	WAITEK W
1.7.5	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.	MILIER WHITE WHITER WHITE	N N
1.7.5 (A11:2009)	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	A WILL MILES MILES	W IIE W



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IEC 60950-1 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	
1.7.5 (A2:2013)	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011. For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.	nties untres untres whi	LEX WAY	
whitek whitek	Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b.	Whitek whitek whitek whitek	Mritek Mritek Mar	
X WALTER O	Justification the Heavy Current Regulations, 6c	LIFET NITER WITER	white white	
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	of let let	TEN NEX	
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	TEX TEX STEEL WE	N N N N N N N N N N N N N N N N N N N	
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	t ret ret tre	F STEFN	
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	Mer Any Any	N	
	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	unti unti untiek un Le Liek untiek un Tek Liek unti	on N Lifet whitek et witet wh	
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	WILLER WILER WILLER	NITE WALTER	
3.2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	TEX MULTER MULTER MULTER	TEX TOTAL OF	



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t JEY	IEC 60950-1 – Attacl	hment	TEX
Clause	Requirement + Test	Result - Remark	Verdict
antiek whife Ex whife whife whife whife whi	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for curr exceeding 10 A. However, a 16 A plug and so outlet system is being introduced in Switzerlan the plugs of which are according to the followin dimension sheets, published in February 1998 SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A	rents cket- nd, ng	TEX WALTER WALTER
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 3 SEV 5934-2.1998: Plug Type 23, L+N+PE 25 16 A		EX WILEY W
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1 CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended be used in locations where protection against indirect contact is required according to the wirrules shall be provided with a plug in accordant with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a RATED CURRENT exceed 13 A is provided with a supply cord with a plug this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	ed to ring nce eding	White
3.2.1.1 (A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceedin 13 A shall be provided with a plug according to 60884-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended be used in locations where protection against indirect contact is required according to the wirrules shall be provided with a plug in accordant with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Justification the Heavy Current Regulations, 6c	ed to ring nice	TEK ON LITER



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IEC 60950-1 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	
3.2.1.1 W	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be	NITER WHITE WHITEK WH	IN THE WALTEST ON	
	provided with a plug according to UNE-EN 50075:1993. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994. If poly-phase equipment is provided with a supply	whitek whitek whitek w	NUTER WILLER	
* (1)	cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	inger All All		
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.	White whitek whitek	antiet whilet	
IEK WALTER	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	t whitek whitek white	ek unitek uni	
3.2.1.1	In Ireland, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.	anti whi whitek as	ALTER WALTER	
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	THE THE THE	N JES	
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	init while while	ILLEY WILLEY	
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.	Whitek Whitek whitek	on It N	



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IEC 60950-1 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	ALIER WHITE	PLIET OF N	
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	EX WHITEK WHITEK WHITE	ite min	
5.1.7.1 JUNITER WASTER WALTER WALTE	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	ANTER WHITE WHITER WHIT	JUNE NATER JUNE WALTER JUNE W	



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Clause	Requirement + Test	Result - Remark	Verdio	
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6.1.2.1 (A1:2010)	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	NITER WHITE WHITE VAN	ANTER MAN	
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or one layer having a distance through insulation of at least 0,4 mm, which shall pass the 	whilet whilet whilet	White White	
	electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	Et Whitek Whitek Whitek	nitek whitek fek whitek w h whi	
	 passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. 	nitek whitek whitek	onlier whiter	
MUTER W	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b). It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to	antiek whitek whitek	MITER WALTER	
	60384-14:2005, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1; - the additional testing shall be performed on	Whitek whitek whitek	TEX WITTER WALTER	
	all the test specimens as described in EN 60384-14: - the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	TEX WITEX WITEX	EK MITEK	



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IEC 60950-1 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	
6.1.2.2 M	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	NITER WALTER WANTER WALTER WAN	MAN EX WALLEY WA	
7.2 Er milek	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	LIEK WHITEK WHITEK WHITE	THE WAY	
7.3 (A11:2009)	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	WHITE WALLES WALLES	N N	

Annex ZD (informative) IEC and CENELEC code designations for flexible cords

Type of flexible cord	Code	Code designations		
	IEC	CENELEC		
PVC insulated cords	Mr. Mr. An.	L A At At		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y		
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F		
Ordinary polyvinyl chloride sheathed flexible cord	60277 IEC 53	H05VV-F H05VVH2-F		
Rubber insulated cords	PLIE OF WY W	1 24 24 24.		
Braided cord	60245 IEC 51	H03RT-F		
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F		
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F		
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F		
Cords having high flexibility	it at all	TEX LIER SLIER		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H		
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H		
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H		

===== End of Attachment ======



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Photo Documentation



Photo 1 (Front view)



Photo 2 (Front view)



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Photo Documentation



Photo 3 (Front view)



Photo 4 (Front view)



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Photo Documentation



Photo 5 (Front view)



Photo 6 (Front view)



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Photo Documentation



Photo 7 (External View)



Photo 8 (External view)



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Photo Documentation



Photo 9 (Terminal View)



Photo 10 (Internal View)



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Photo Documentation

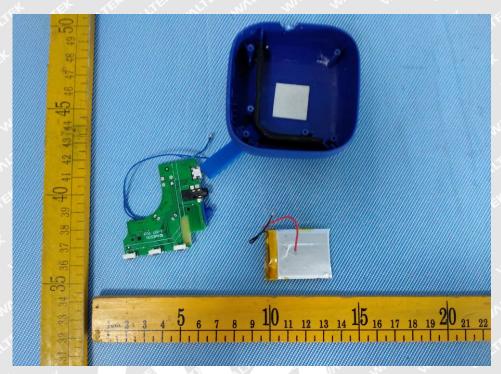


Photo 11 (Internal View)

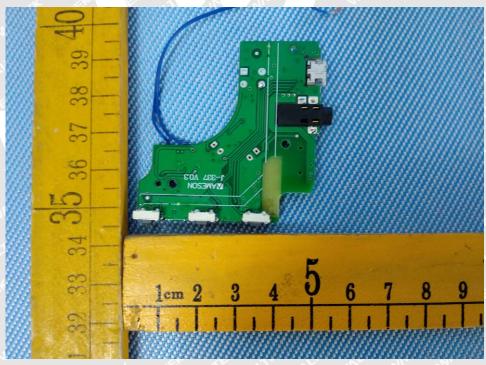


Photo 12 (Solder side of main board)



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Photo Documentation

Reference No.: WTF17F1298718S



Photo 13 (Component side of main board)

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

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