

TEST REPORT

Reference No. : WTS15S0526196S

Applicant...... : Vega Industries Limited

Address...... 21 Her iot Drive, Porirua, New Zealand 5022

Manufacturer: Vega Industries Limited

Product Name..... : Vega AIS

Model No. : VAIS-3E

Information technology equipment – Safety –

Part 1: General requirements

Date of Receipt sample : May 07, 2015

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.

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Compiled by:

Dandy Lu / Project Engineer

Deval Qin / Manager



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Test item description Vega AIS

Trademark

Rating(s)...... Input: 10-36V---, 2A(MAX); Class III

Copy of marking plate:



Model: VAIS-3E

Vega Industries Ltd.

Made in New Zealand

Input: 10-36VDC, 2.0A max

Amax

BSH: 4542/002/4322515/15

USCG: FCC ID: IC:

General product information:

The equipment with model VAIS-3E is designed to provide Automatic Identification System (AIS) functionality for ATONs (Aids TO Navigation, i.e. navigational beacons). The maximum ambient temperature specified by manufacturer is 60°C.

Summary of testing:

All tests had been assessed for safety with respect to the above test specifications and found to comply with the requirements of the standards.



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Test item particulars	NI IN THE LET LET
Equipment mobility:	☐ movable ☐ hand-held ☐ transportable ☒ stationary
at let tex lifet aliter in	for building-in direct plug-in
Connection to the mains:	☐ pluggable equipment ☐ type A ☐ type B
t at let telt stelt stell	permanent connection
lifeth white while while when when	detachable power supply cord
the state of the state	non-detachable power supply cord
the stiff of the main way .	not directly connected to the mains
Operating condition:	Continuous
A - SET - SET OF THE SHALL SHALL SHE	rated operating / resting time: 90 sec ON / 30 min OFF
Access location:	operator accessible
Overveltage estagen (OVC)	restricted access location
Over voltage category (OVC)	□ OVC I □ OVC II □ OVC IV ☑ other:
Mains supply tolerance (%) or absolute mains supply values:	N/A
Tested for IT power systems:	⊠ Yes □ No
IT testing, phase-phase voltage (V):	230V(only for Norway)
Class of equipment:	
Considered current rating of protective device as part of the building installation (A):	N/A WILL WILL WILL WILL THE THE
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
IP protection class:	N/A
Altitude during operation (m)	Up to 2000
Altitude of test laboratory (m):	Below 2000
Mass of equipment (kg):	Approximately 3.83 Kg(VAIS-3E)
at let tet tel	Approximately 0.65 Kg(WMR750)
Test case verdicts	EX TEX TEX SLIFE WITE WITE SUNT
Test case does not apply to the test object:	N (N/A)
Test item does meet the requirement:	P (Pass)
Test item does not meet the requirement:	
Testing	THE LIFE OF THE STATE OF
Date of receipt of test item:	May 07, 2015
Date(s) of performance of test:	June 26, 2015 to July 02, 2015
General remarks	A WILLIAM THE TEXT THE
The test result presented in this report relate of This report shall not be reproduced, except in laboratory.	only to the object(s) tested. full, without the written approval of the Issuing testing
"(see Enclosure #)" refers to additional inform "(see appended table)" refers to a table appended table)"	
Remark: Whether parts of tests for the product have b Yes No	een subcontracted to other labs:
If Yes, list the related test items and lab information:	mation:

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releterio	No: WTS15S0526196S Page 4 of IEC/EN 609		
Clause	Requirement – Test	Result – Remark	Verdict
1 4	GENERAL	me we we to	- 10
1.5	Components	THE WILL WILL WILL	P
1.5.1	General		P
1.0.1	Comply with IEC 60950-1 or relevant component standard	(See appended table 1.5.1)	Р
1.5.2	Evaluation and testing of components	F I TEL LITER NITE OF THE SAME	Р
1.5.3	Thermal controls		· N
1.5.4	Transformers	No such components	N
1.5.5	Interconnecting cables		Р
1.5.6	Capacitors bridging insulation	No such capacitors	N N
1.5.7	Resistors bridging insulation		ωN
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	EX MILTER MALIER WALLE V	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	White white whi	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	nute white white white	WN N
1.5.8	Components in equipment for IT power systems	it it it	N
1.5.9	Surge suppressors	No such components	N
1.5.9.1	General		+ N
1.5.9.2	Protection of VDRs	alter wife wall wall was	√N
1.5.9.3	Bridging of functional insulation by a VDR	Sur July 18th	N
1.5.9.4	Bridging of basic insulation by a VDR	THE WALL STANDS WALL	20 N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	Et It I I I I I I I I I I I I I I I I I	N. CON
1.6	Down interfered W	who me to the	P
<u> </u>	Power interface	Martin Will with Will M	- 37
1.6.1	AC power distribution systems	(See appended table 1.5.2) The	N P
niter of	Input current while whil	(See appended table 1.6.2) The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD.	MULTER
1.6.3	Voltage limit of hand-held equipment	at the left the	JE N
1.6.4	Neutral conductor	Class III equipment.	N
1 Walter	Will Mill Aut An Air	Light night wifet with the	ie. Aluri
1.7	Marking and instructions	We will the	Р
1.7.1	Power rating and identification markings	at at the the other	Р

Ρ

Power rating marking

1.7.1.1



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- Jan	IEC/EN 609		
Clause	Requirement – Test	Result – Remark	Verdict
- Jet	Multiple mains supply connections:	L et et et	atie «Ñ
'10, " " "	Rated voltage(s) or voltage range(s) (V):	10-36V 	P
itet ii	Symbol for nature of supply, for	=- at at a	JE JE P
7/1	d.c. only:	the write main man in	
ek walie	Rated frequency or rated frequency range (Hz)	t lifet nitet mitet mit	A SECTION
. Let	Rated current (mA or A)	2.0A(MAX)	P
1.7.1.2	Identification markings	LIER WILL WILL WHILE	Wh. Wh.
INLIEK NI	Manufacturer's name or trade-mark or identification mark	Refer to the label	NITER MILIER
	Model identification or type reference	See page 2.	Р
IE. WILL	Symbol for Class II equipment only	Class III equipment.	N,
٠	Other markings and symbols	The sales are	P
1.7.2	Safety instructions and marking	- LIEK OLIEK WILLE	ant P
1.7.2.1	General	The American	Р
1.7.2.2	Disconnect devices	Class III equipment.	Will WIN
1.7.2.3	Overcurrent protective device		, N
1.7.2.4	IT power distribution systems	TEX TEX OUTER WITE ON	N. N.
1.7.2.5	Operator access with a tool		* KN
1.7.2.6	Ozone	LIER CLIER WITE WILL	My NA
1.7.3	Short duty cycles	Continuous	- N
1.7.4	Supply voltage adjustment	LIER ALIER WILL WALL	un' un
INLIEK N	Methods and means of adjustment; reference to installation instructions		N.
1.7.5	Power outlets on the equipment	No standard power outlets	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference	THE WALL WAS THE WAY	N.
1.7.7	Wiring terminals		N
1.7.7.1	Protective earthing and bonding terminals	White Wall Mark Mark	N 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	WILL WALL MALL MALL	n nN
1.7.8	Controls and indicators	a state of	A P
1.7.8.1	Identification, location and marking	ITE NOTE MUSE MUSE M	N
1.7.8.2	Colours	s at at at a	# JEP
1.7.8.3	Symbols according to IEC 60417	EL MULL MULL MULL MULL	N _S
1.7.8.4	Markings using figures		N.
1.7.9	Isolation of multiple power sources	No multiple power source	n N
1.7.10	Thermostats and other regulating devices:	No such parts	UNLIEK WINE
1.7.11	Durability	11. 24. 20. 20.	Р



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IEC/EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.7.12	Removable parts	LET THE THE STIET OF	ST N
1.7.13	Replaceable batteries	The Me My My	N
Liter was	Language	It THE ITE STEEL OUT	N N
1.7.14	Equipment for restricted access locations	i m m m	N

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy haz	zards /	Р
2.1.1	Protection in operator access areas	Class III equipment, no hazardous voltages generated.	N
2.1.1.1	Access to energized parts	HIT WALL WAS AND WIN	N
TEX SIT	Test by inspection	at the state state	UN N
70,	Test with test finger (Figure 2A)	The state of the s	N
Y LIER	Test with test pin (Figure 2B)	at the item	N
10,	Test with test probe (Figure 2C)	No TNV present.	N
2.1.1.2	Battery compartments	THE TEXT LIFE	N
2.1.1.3	Access to ELV wiring	No ELV circuit	N
VILLEK MU	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	TEX TEX MITER WAITER WALTER.	unit N
2.1.1.4	Access to hazardous voltage circuit wiring	No such component	N
2.1.1.5	Energy hazards	TITEL WITE WALL WALL WE	P
2.1.1.6	Manual controls	an at the second	+ N
2.1.1.7	Discharge of capacitors in equipment	ALIEK MLIER MALIE WALL WALL	⊿Ñ
at the	Measured voltage (V);time-constant (s)	n n	- T
2.1.1.8	Energy hazards – d.c. mains supply	all all the wall wall	an N
LIEK NAL	a) Capacitor connected to the d.c. mains supply	THE ALL A THE OLITHA	N N
ek aliek	b) Internal battery connected to the d.c. mains supply:	Who will self the	N N
2.1.1.9	Audio amplifiers	White Mer My My My	N
2.1.2	Protection in service access areas	A SH SH SHE ST	N
2.1.3	Protection in restricted access locations	WILL MUE MUE ME ME	N

2.2	SELV circuits	THE WALL MALL WALL WITH	N
2.2.1	General requirements	SELV levels are maintained after single fault condition.	TEN NOT
2.2.2	Voltages under normal conditions (V)	Max. <42.4 Vpk / 60 VDC	N
2.2.3	Voltages under fault conditions (V)	Max. <42.4 Vpk / 60 VDC	N



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IEC/EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
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.	N N
0.0.1	The state of the suntile of the	me me m	*
2.3.1	TNV circuits Limits	No TNV circuits	N
2.3.1			N
2.3.2	Type of TNV circuits Separation from other circuits and from accessible parts	THE WALL WALL WALL	N
2.3.2.1	General requirements	et in the mile mile and	N
2.3.2.2	Protection by basic insulation	the state of	N
2.3.2.3	Protection by earthing	Write Murit Mury Aug	N
2.3.2.4	Protection by other constructions	at the state of	N
2.3.3	Separation from hazardous voltages	" Will Marie Marie Marie Marie	N N
TEX	Insulation employed	at at att alt	N
2.3.4	Connection of TNV circuits to other circuits	THE STEE WITH MICE WAS	N
CEX LIE	Insulation employed	A A B AT	N
2.3.5	Test for operating voltages generated externally	MULLI MULL MULL MILL MILL MILL	N
Mr.	And Any Any And	THE STEE MITE WALL WALL	MUF
2.4	Limited current circuits	Mr Mr S A A	N
2.4.1	General requirements	if all life wait wait	W.N
2.4.2	Limit values	the state of the s	N
r. Aur	Frequency (Hz)	I THE THE PERSON OF THE PERSON	N
x (6)	Measured current (mA)	w w	N N
Mr	Measured voltage (V)	- ITER WITE WITE MAIL MY	N
all the same of th	Measured circuit capacitance (nF or μF)	The second second	N
2.4.3	Connection of limited current circuits to other circuits	WALLER MULTER MULTER WHILL MULT	NN X
Will M	in the shift of	LET THE STEET NITER WAITE	MULL
2.5	Limited power sources	L. M. M. M.	N
	a) Inherently limited output	EX MULTER MULTER MULTER MULTER W	N _N
MITE	b) Impedance limited output	ist test with with mi	N
TEK	c) Regulating network limited output under normal operating and single fault condition	unt un un the tex tex	N
ex m n	d) Overcurrent protective device limited output	wife mure mure was an	An N



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IEC/EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
NALTEK V	Max. output voltage (V), max. output current (A), max. apparent power (VA)		St with w N
LIEK WAY	Current rating of overcurrent protective device (A)	TEX STEEL MITER MITER	MALTER
ot di	Use of integrated circuit (IC) current limiters	L My An An	A N
Mr	Mr. Mr. Mr.	TER STEE WITE SOUTH S	ing me m
2.6	Provisions for earthing and bonding	20, 20, 2	L N
2.6.1	Protective earthing	t tiet alies wife on	No. NO.
2.6.2	Functional earthing	141 141	L N-
2.6.3	Protective earthing and protective bonding conductors	WILL MILE MILE WILL	an an N
2.6.3.1	General	et let let liet liter	N.
2.6.3.2	Size of protective earthing conductors	in the things	N
WALTE	Rated current (A), cross-sectional area (mm²), AWG	E WHITEK WHITEK	nifer mi N
2.6.3.3	Size of protective bonding conductors	A set in	of Jet No
	Rated current (A), cross-sectional area (mm²), AWG	unit was was	N N
ir, m	Protective current rating (A), cross-sectional area (mm²), AWG:	IT LIES WALTER WALTER	we N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance (Ω) , voltage drop (V) , test current (A) , duration (min)	Write War, Mar.	untile un it No
2.6.3.5	Colour of insulation	LIER OLIER MITE ON	Nr W
2.6.4	Terminals	201 201	N.
2.6.4.1	General	it all lite whi	nu nu
2.6.4.2	Protective earthing and bonding terminals	A A	eN
r wh	Rated current (A), type, nominal thread diameter (mm)	THE ME THE THE	war a N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	F WALTER WALTER WALTER W	NITE WYSE N
2.6.5	Integrity of protective earthing	LIFE MITE MITE WATER	Mr. MN
2.6.5.1	Interconnection of equipment	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L of N-
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	Writer white white white	JUNES JUNE N
2.6.5.3	Disconnection of protective earth	L'ENNL' WAL. WAL.	N.
2.6.5.4	Parts that can be removed by an operator	and the set	AN ST N
2.6.5.5	Parts removed during servicing	e antite water water wi	N
2.6.5.6	Corrosion resistance	at at at a	N N
2.6.5.7	Screws for protective bonding	alth with wall wall	The N



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Clause	Requirement – Test	Result – Remark	Verdict
2.6.5.8	Reliance on telecommunication network or cable distribution system	NIEK WAITER WAITER WAITER	N'N
2.7	Overcurrent and earth fault protection in prim	anny oirouito	N -
2.7.1		lary circuits	
2.7.1	Basic requirements	t at at at a	N
	Instructions when protection relies on building installation	in min min me min w	IN IN
2.7.2	Faults not simulated in 5.3.7	t fet fet lifet outer out	N
2.7.3	Short-circuit backup protection	Mr. Mr. Mr.	N
2.7.4	Number and location of protective devices	TEN TEN TEN STEE STEEL STEEL	N
2.7.5	Protection by several devices	in the the	N
2.7.6	Warning to service personnel	Not intended for any service or repair.	N
	ilk the the	The state of the s	.4
2.8	Safety interlocks	ex lifet alifet outer on	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	TEX LIER NITER WITH	N
2.8.3	Inadvertent reactivation	in in in	N
2.8.4	Fail-safe operation	TEN TEN TEN ALTER ALTER	JUN N
2.8.5	Moving parts	La An An An	N
2.8.6	Overriding	TEX STEX STEEL WITE ST	N
2.8.7	Switches, relays and their related circuits	Mr. Mr. Mr.	N
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	INTER WHITE WHITE WHITE WAS	N
2.8.7.2	Overload test	THE THE STATE	N
2.8.7.3	Endurance test	NIT WE WAS THE	N
2.8.7.4	Electric strength test	I be better	√ N
2.8.8	Mechanical actuators	The the the the	N
IX JE	NITE WILL WALL WILL TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T	the state of the state of	JEK N
2.9	Electrical insulation	E. WILL MULL MULL AND AND	N
2.9.1	Properties of insulating materials	at the fifth of	N
2.9.2	Humidity conditioning	write white our war with	N
TEX	Relative humidity (%), temperature (°C)	t at let let lier	N
2.9.3	Grade of insulation	THE WALL WALL WE WANT	N
2.9.4	Separation from hazardous voltages	at the fifth of the	N
10,	Method(s) used	I will have my a	N

2.10	Clearances, creepage distances and distances through insulation		N
2.10.1	General See only 5.3.4 for functional insulation		N
2.10.1.1			N



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Clause	Requirement – Test	Result – Remark	Verdict
بار	at the set set will all	1/1, 1/1, 10, 2,	
2.10.1.2	Pollution degrees:	et let liet alle	mult INN
2.10.1.3	Reduced values for functional insulation	ar, ar, an, ar	N
2.10.1.4	Intervening unconnected conductive parts	EX TEX JEX JIES	NI N
2.10.1.5	Insulation with varying dimensions	" Mur Mr Mr	N
2.10.1.6	Special separation requirements	of the tier tier of	LIE NO
2.10.1.7	Insulation in circuits generating starting pulses	Aut my Au A	N
2.10.2	Determination of working voltage	antiti wat wat	An AN
2.10.2.1	General	L at let let	N [*]
2.10.2.2	RMS working voltage	WILL MULL MULL MULL	m n
2.10.2.3	Peak working voltage	I st set set	TEN TEN
2.10.3	Clearances	The Maria War a	N ₁
2.10.3.1	General	at all	N.
2.10.3.2	Mains transient voltages	White Mrs. Mr	Zu N
TEX	a) AC mains supply	at at a	y Ne
n n	b) Earthed d.c. mains supplies	in the wall was	-1 ₁₁ -1 ₁₁ N
TEX V	c) Unearthed d.c. mains supplies:	t at at	A N
, m	d) Battery operation:	LIE WILL WILL	n N
2.10.3.3	Clearances in primary circuits		ALL ALL N
2.10.3.4	Clearances in secondary circuits	WILL MULL MULL M	N _D
2.10.3.5	Clearances in circuits having starting pulses	at the state of	et st No
2.10.3.6	Transients from a.c. mains supply	WILL WILL MULT MULT	n N
2.10.3.7	Transients from d.c. mains supply		- N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	nut ner man	WILEY WILEY
2.10.3.9	Measurement of transient voltage levels	the me in	N
MITE	a) Transients from a mains supply	t let let let	JE NY
400	For an a.c. mains supply	Mr. Mr. Mr. Mr.	N
MITE	For a d.c. mains supply	ex fex fex if	N.
TEX	b) Transients from a telecommunication network	mer and any an	N _L
2.10.4	Creepage distances	LIE WILL WALL WALL	n N
2.10.4.1	General	the state of	JEN JEN
2.10.4.2	Material group and comparative tracking index	antip mer municipal	N _n
WILL	CTI tests	TEX SITES OUTE WITH MAIN	I III
2.10.4.3	Minimum creepage distances	711- 111- 111	N
2.10.5	Solid insulation	TEK LIEK ALTER ALTE	Nan Jan
2.10.5.1	General	The ship of	_ N



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10	IEC/EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
2.10.5.2	Distances through insulation	at all the s	EL STE ON	
2.10.5.3	Insulating compound as solid insulation	WILL MUST MILL MAY	N	
2.10.5.4	Semiconductor devices	at at the other	N N	
2.10.5.5	Cemented joints	it must me me	N	
2.10.5.6	Thin sheet material - General	t let let let	THE WATER NO	
2.10.5.7	Separable thin sheet material	Mur Mr. M. A	N	
NITE	Number of layers (pcs)	LET LET LET	J ^O N ^O	
2.10.5.8	Non-separable thin sheet material	MUT. MUT. M. M.	N	
2.10.5.9	Thin sheet material – standard test procedure	LIFEK UNLIEK WALTER WALTE	White out N	
EK LIE	Electric strength test	i it it set	JON JON	
2.10.5.10	Thin sheet material – alternative test procedure	Marie Wat	m a N	
wit.	Electric strength test	- NITE WILL AN	ni mi No	
2.10.5.11	Insulation in wound components		No.	
2.10.5.12	Wire in wound components	alier with whi	Mar ANN	
LEK X	Working voltage		N-	
ir, Mur	a) Basic insulation not under stress:	TEX LIER WITE, WITE	mr. N	
ek whitek	b) Basic, supplementary, reinforced insulation:	WITE MITER WHITER	uniter uniterN	
TEX	c) Compliance with Annex U		ALL SIM NO	
7011- V	Two wires in contact inside wound components; angle between 45° and 90°:	white white whi we	THE THE	
2.10.5.13	Wire with solvent-based enamel in wound components	NIT NI II WILL	MUD NUN	
TER WITH	Electric strength test	THE TEN	N. I. N.	
	Routine test	, mu m	N	
2.10.5.14	Additional insulation in wound components	t cert cert creek	N.	
	Working voltage	Mur Mur Mur A	N	
WALTER W	- Basic insulation not under stress:	MITER MITER WHITER WH	TER WITE WIN	
JEK J	- Supplementary, reinforced insulation:	a st sit sit	K N	
2.10.6	Construction of printed boards	LIE WILL MULT MULT	n N	
2.10.6.1	Uncoated printed boards		TEN N	
2.10.6.2	Coated printed boards	White Wall Wall	m n No	
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	TEN STEEL NITER OF	Lifet wit at N	
2.10.6.4	Insulation between conductors on different layers of a printed board	at the inter-	EK ALTER NE	
7.	Distance through insulation	They have the the	N	



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IEC/EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdic	
WITEH N	Number of insulation layers (pcs):	et tet tet stet sit	N	
2.10.7	Component external terminations	We My My My	N	
2.10.8	Tests on coated printed boards and coated components	TEX WITER WHITER WHITER WHITE	JACO N	
2.10.8.1	Sample preparation and preliminary inspection	t lifet slifet milet milet	U ZEE N	
2.10.8.2	Thermal conditioning	711 71 7	- N	
2.10.8.3	Electric strength test	ITER ALTER MITE WALL WA	JN	
2.10.8.4	Abrasion resistance test	an an a	← N+	
2.10.9	Thermal cycling	ITEL SITE OUTE SOUTH WALL	an N	
2.10.10	Test for Pollution Degree 1 environment and insulating compound	ex ret ret liet wret	N N	
2.10.11	Tests for semiconductor devices and cemented joints	THE TEXT TEXT	N	
2.10.12	Enclosed and sealed parts:	while we would	N	
TEX	with out on which	at let let o	EX LIE	
3	WIRING, CONNECTIONS AND SUPPLY	WILL MULL MAN MAN	1,,-	
3.1	General	at the set set	Ϋ́P	
3.1.1	Current rating and overcurrent protection	The The Multi-Multi-Multi-Multi-	Р	
3.1.2	Protection against mechanical damage	A set let let	Р	
3.1.3	Securing of internal wiring	White must must mer "	P	
3.1.4	Insulation of conductors	A IN THE TEXT	P	
3.1.5	Beads and ceramic insulators	The equipment does not have any beads or similar insulators.	N	
3.1.6	Screws for electrical contact pressure	The equipment does not have any screw-type connections.	'n N	
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	S N	
3.1.8	Self-tapping and spaced thread screws	the state of the s	N	
3.1.9	Termination of conductors	THE WALL WAS AND A	Р	
TEX	10 N pull test	a state of	P	
3.1.10	Sleeving on wiring	WILL MULL MULL MAN MAN	N .	
TEX	TER WITE WILL AND AND	the state of the state of	LIEK	
3.2	Connection to a mains supply	WITE WILL WILL WILL WILL	N	
3.2.1	Means of connection	EK SLIEK SLIEK MILIEK MILIEK	ON CITE N	
3.2.1.1	Connection to an a.c. mains supply	An An A	+ N	
3.2.1.2	Connection to a d.c. mains supply	LIER OLIER WIFE SHILL MA	N.	
3.2.2	Multiple supply connections	m m	No.	
3.2.3	Permanently connected equipment	THE TEXT OF SITE OF	-UN	



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OI-	IEC/EN 609		
Clause	Requirement – Test	Result – Remark	Verdict
Mrtex M	Number of conductors, diameter of cable and conduits (mm)	INITER WHITER WHITER WHITE WHITE	SIP N
3.2.4	Appliance inlets	TEX LIET OLIER MILE MILE	N N
3.2.5	Power supply cords	The state of the s	.e⊬N
3.2.5.1	AC power supply cords	t lifet alifet wife waite	I NI
MITER	Type:	et tet tet vitet vi	I N
TEX	Rated current (A), cross-sectional area (mm²), AWG	and the the the	N.
3.2.5.2	DC power supply cords	THE WILL MUT MY	20 N
3.2.6	Cord anchorages and strain relief	the state of the s	JEN.
k	Mass of equipment (kg), pull (N)	Mary Mary Mary Mary	N.
MUL	Longitudinal displacement (mm)	"NITE" WITE WALL W	N
3.2.7	Protection against mechanical damage	4 3	No.
3.2.8	Cord guards	alter mile while whi	N.V.
LIEX IN	Diameter or minor dimension D (mm); test mass (g)	at the the state with	N-
	Radius of curvature of cord (mm)	in the sail	N
3.2.9	Supply wiring space	TEX TEX STEE SLITER	N
	It let the the number	Mrs. Mrs. Ans. Ans.	
3.3	Wiring terminals for connection of external co	nductors	P
3.3.1	Wiring terminals	me me me	Р
3.3.2	Connection of non-detachable power supply cords	Considered in end product system	SIL N
3.3.3	Screw terminals	M5 screw used	J°P
3.3.4	Conductor sizes to be connected	in the sail in the	y P
WALTER	Rated current (A), cord/cable type, cross-sectional area (mm²)	<40A 10 mm ²	NIEK P
3.3.5	Wiring terminal sizes	M W	- P
unt.	Rated current (A), type, nominal thread diameter (mm)	5mm	WP TEX
3.3.6	Wiring terminals design	LIER WILL MULL MULL MAN	Р
3.3.7	Grouping of wiring terminals		Р
3.3.8	Stranded wire	Considered in end product system	n Nn
L	life outer with white will		TEX S
3.4	Disconnection from the mains supply	THE WILL MILE MILL AN	Р
3.4.1	General requirement		Р
3.4.2	Disconnect devices		Р



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t TEX	IEC/EN 609	950-1	TEX JE
Clause	Requirement – Test	Result – Remark	Verdict
3.4.3	Permanently connected equipment	Not permanently connected equipment.	N N
3.4.4	Parts which remain energized	a de de de	, N
3.4.5	Switches in flexible cords	" It will will will will	N 2
3.4.6	Number of poles – single-phase and d.c. equipment	1st liet oliek milet whilek	NA TEL PAI
3.4.7	Number of poles – three-phase equipment	711 7	L N
3.4.8	Switches as disconnect devices	No such device.	~N
3.4.9	Plugs as disconnect devices	in in it	at Nt
3.4.10	Interconnected equipment	No interconnection of hazardous voltages or energy levels.	W.N.
3.4.11	Multiple power sources	ex rex rex rise wife	N N N
	at let telt	The Man and and	4
3.5	Interconnection of equipment	et litet litet milet	NI BUI
3.5.1	General requirements	The The The	Р
3.5.2	Types of interconnection circuits	SELV circuits	P
3.5.3	ELV circuits as interconnection circuits	n. m. m.	N
3.5.4	Data ports for additional equipment	TEN TEN TEN TITES WITE	n ^L N
4 1	t et tex ex ex out our so	weight and an analysis	- A
4	PHYSICAL REQUIREMENTS	TEK ITEK LITEK MITER	In City Pun'
4.1	Stability	and my my and	N
NITE.	Angle of 10°	A TEN TEN STEEN STEEN STEEN	N. N. I
	Test force (N)	me me m	N
WILL W	e me m	THE OUTE ON	NALI
4.2	Mechanical strength		Р
4.2.1	General	Class III equipment.	PN
الان الم	Rack-mounted equipment	k m m	∠ N
4.2.2	Steady force test, 10 N	Et TEX STER STEE STEE	JAN BAN
4.2.3	Steady force test, 30 N	The An an a	N
4.2.4	Steady force test, 250 N	TEX ITEX NITER WITE NO	NP.
4.2.5	Impact test	min my my	L PL
الله النام	Fall test	TEX ITEX SITES ONLY	JIL P
, t	Swing test	his my my the	Р
4.2.6	Drop test; height (mm)	LEE MULTER MULTER MULTER WHITE	W. N'N
4.2.7	Stress relief test	7h, 70°C	LI PLI
4.2.8	Cathode ray tubes	Whis her has he	N
CLIER	Picture tube separately certified	at the set set	N
4.2.9	High pressure lamps	West Mer Aug Aug And	N



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IEC/EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
4.2.10	Wall or ceiling mounted equipment; force (N)	Additional Force 112.6	P	
4.2.11	Rotating solid media	TEX SITES MITES MITES WHITE	N N	
at let	Test to cover on the door	70 T A	L-N	

4.3	Design and construction	W T	Р
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute hazard.	VP LIE
4.3.2	Handles and manual controls; force (N):	No any handles and manual controls.	N
4.3.3	Adjustable controls	a state of the state of	N
4.3.4	Securing of parts	the state of the state of	Р
4.3.5	Connection by plugs and sockets	at let test of	N
4.3.6	Direct plug-in equipment	min min my my	N
TEN	Torque	at let tex tex	N
Mr N	Compliance with the relevant mains plug standard	writ with with which	N
4.3.7	Heating elements in earthed equipment	TEX STEE WITH MILL .	N
4.3.8	Batteries	the state of the s	.∉N
AVE	- Overcharging of a rechargeable battery	LIER WIFE WIFE WALL WA	N
MITEX	- Unintentional charging of a non-rechargeable battery	THE THE LIER STIER WILL	+ N
JEK .	- Reverse charging of a rechargeable battery	Whit was the text	N
11. 11.	- Excessive discharging rate for any battery	RIT RE THE THE	a_n N
4.3.9	Oil and grease	the state of the s	ζÝŇ
4.3.10	Dust, powders, liquids and gases	it was an a	N
4.3.11	Containers for liquids or gases	the state of the state of	N
4.3.12	Flammable liquids	with mit mit we will	N
TEX	Quantity of liquid (I)	A ST ST ST	N
M. A	Flash point (°C):	MULLE MULL MULL MULL MILL	N
4.3.13	Radiation	LIER WHITE WHITE WALL WHI	Р
4.3.13.1	General	it for the state with a	Р
4.3.13.2	Ionizing radiation	Mr. Mr. Mr.	N
MULTE	Measured radiation (pA/kg)	MITER WHITER WHITE WHITE	N
TEX	Measured high-voltage (kV)	t it the the	N
in in	Measured focus voltage (kV)	Will Mill Mur Mur Mur Mur	N



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IEC/EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
nlifet an	CRT markings	ex rex rex rex	STON N	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	incoming the set of	N	
it lit	Part, property, retention after test, flammability classification	The write will will will	N	
4.3.13.4	Human exposure to ultraviolet (UV) radiation	MILIER WHITE WHITE WALL	m Nu	
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs only indication function	WITE BIT	
4.3.13.5.1	Lasers (including laser diodes)	The Mr My My	N	
NITE NA	Laser class:	et set jet liet o	N N	
4.3.13.5.2	Light emitting diodes (LEDs)	VI. MUT. MILL AND AND	Р	
4.3.13.6	Other types:	It IST TEXT STEEL STEEL	N J	

4.4	Protection against hazardous moving parts	at lifet lifet alifet mi	N
4.4.1	General	No such parts	N
4.4.2	Protection in operator access areas	TEX LIFE DIFFE WIFE	N
JEX N	Household and home/office document/media shredders	at let tet test	N
4.4.3	Protection in restricted access locations	the the man and	N
4.4.4	Protection in service access areas	at at att the	N C
4.4.5	Protection against moving fan blades	with with my my	N
4.4.5.1	General	A CH CH CH C	N
701	Not considered to cause pain or injury. a):	with whi with which will	N
naliek w	Is considered to cause pain, not injury. b):	it and the south	W.N.
let a	Considered to cause injury. c)		N
4.4.5.2	Protection for users	THE THE THE THE THE THE	N m
ek mijek	Use of symbol or warning	t fet fet stet stet stret in	EF N
4.4.5.3	Protection for service persons	Mr. Mr. Mr. And Andrews	N
WALTER	Use of symbol or warning	WILES MATER MATER MATER MATER	^U N _Y

4.5	Thermal requirements	NITE WALL WALL WALL WAS	Р
4.5.1	General	and the state of the state of	JEP J
4.5.2	Temperature tests	en with mury mury mury and	Р
Et JE	Normal load condition per Annex L	at the left of	P
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	WILL MULL MULL MULL MULL MULL	N



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IEC/EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict

4.6	Openings in enclosures	N
4.6.1	Top and side openings	EL CLIEN VILLE
	Dimensions (mm)	N
4.6.2	Bottoms of fire enclosures	CLIEF OF THE NALL
TEX	Construction of the bottom, dimensions (mm)	Tet IT NITT
4.6.3	Doors or covers in fire enclosures	n n n
4.6.4	Openings in transportable equipment	THE THE INT
4.6.4.1	Constructional design measures	n N
TEX JE	Dimensions (mm)	t TEN
4.6.4.2	Evaluation measures for larger openings	Mr. 1 N.
4.6.4.3	Use of metallized parts	Et Nite
4.6.5	Adhesives for constructional purposes	m m N
WALTER W	Conditioning temperature (°C), time (weeks):	LIET WAITE WAN NET

4.7	Resistance to fire	P
4.7.1	Reducing the risk of ignition and spread of flame	ALTER WALTER WATER PARTY
WALTER	Method 1, selection and application of components wiring and materials	TEX WILLEY WILL A PLIES
INLIEK N	Method 2, application of all of simulated fault condition tests	NET WIFE WALLES
4.7.2	Conditions for a fire enclosure	Р
4.7.2.1	Parts requiring a fire enclosure	THE CLIP OF PART
4.7.2.2	Parts not requiring a fire enclosure	N
4.7.3	Materials	LIER WILL WILL BUT
4.7.3.1	General And	Р
4.7.3.2	Materials for fire enclosures	Et alle alle ap
4.7.3.3	Materials for components and other parts outside fire enclosures	THE THE N
4.7.3.4	Materials for components and other parts inside fire enclosures	What P
4.7.3.5	Materials for air filter assemblies	unit whit of Note
4.7.3.6	Materials used in high-voltage components	L H N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	
5.1	Touch current and protective conductor current	
5.1.1	.1 General	



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Clause	IEC/EN 609		Verdict
Clause	Requirement – Test	Result – Remark	verdict
5.1.2	Configuration of equipment under test (EUT)	LET TEX STER AS	OF NOTE OF N
5.1.2.1	Single connection to an a.c. mains supply	We are any	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	TEX WITER WALTER WALTER	White white
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	* THE NITER MITER	UNITER NO TER NO.
5.1.3	Test circuit	M1. M1.	L N
5.1.4	Application of measuring instrument	LIER OLIER WITE W	IN IN
5.1.5	Test procedure	1/11 / 1/2	L AL N
5.1.6	Test measurements	LIER ALTER MITE MILE	an' an'N
et e	Supply voltage (V)	1. M. D. T.	N
, mur	Measured touch current (mA)	EX JULIER WILLE	mer n Ny
MITE	Max. allowed touch current (mA)	- TEX TEX	Life NV
TEX	Measured protective conductor current (mA)	The state of	N III
n, 2	Max. allowed protective conductor current (mA)	WELL MUST MUST	W N
5.1.7	Equipment with touch current exceeding 3,5 mA	TEX LIE WHITE WHITE	Ann N
5.1.7.1	General	EX TEX LIER	NO THE NAME OF THE PARTY OF THE
5.1.7.2	Simultaneous multiple connections to the supply	With the talk	TEN STATE
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	white white whi wh	et with Mites
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	THE THE	MILIER WILLER
t w	Supply voltage (V)	1/11 1/11 1/11	A N
MULL	Measured touch current (mA)	WHITEK WHITEK WHITE W	Mr. NV
MALTE	Max. allowed touch current (mA)	WILE MILES MALIES MA	TEL WILL WN
5.1.8.2	Summation of touch currents from telecommunication networks	Tet lifet slight still	K WILLY MILLING
EX WALT	a) EUT with earthed telecommunication ports:	et outet writet writet	MILIEK WITEN
MITEK	b) EUT whose telecommunication ports have no reference to protective earth	THE THE THE	LIET IN I AND

5.2	Electric strength	WN -
5.2.1	General	N



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+ CEX		IEC/EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
5.2.2	Test procedure		Et MIE MN

5.3	Abnormal operating and fault conditions	EX TEX ITEX WITE OUTE .	P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P P
5.3.2	Motors	No motors	N
5.3.3	Transformers	at at at the st	N
5.3.4	Functional insulation	Will Mur Mur Mur Mr.	N
5.3.5	Electromechanical components	at the text that	Ń
5.3.6	Audio amplifiers in ITE	Kith white with white will	N
5.3.7	Simulation of faults	a start set set	JEP .
5.3.8	Unattended equipment	The state of the state of	N
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flames emitted, no molten material emitted and no hazard.	P PIT
5.3.9.1	During the tests		P
5.3.9.2	After the tests	LIE WIFE WILL WALL	WP

6 00	CONNECTION TO TELECOMMUNICATION NETWORKS	N a
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	DIEKN
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
INLIE N	Supply voltage (V)	N N
	Current in the test circuit (Ma)	N
6.1.2.2	Exclusions	N N
6.2	Protection of equipment users from overvoltages on telecommunication networks	N.O
6.2.1	Separation requirements	N
6.2.2	Electric strength test procedure	e Ne
6.2.2.1	Impulse test	₹,N
6.2.2.2	Steady-state test	N
6.2.2.3	Compliance criteria	N N
6.3	Protection of the telecommunication wiring system from overheating	N
- Th	Max. output current (A)	N
WILL	Current limiting method:	N

7 4	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	JUN 4
7.1	General	N



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	IEC/EN 60	950-1	
Clause	Requirement – Test	Result – Remark	Verdict
7.0	Dust ation of able diskibution and an	70 7	et de 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	writer writer write whi	White wind
7.3	Protection of equipment users from overvoltages on the cable distribution system	ALE STEEK WITER WITER	Writer My tex M
7.4	Insulation between primary circuits and cable distribution systems	t et 1st jet i	TEK NIT NOT
7.4.1	General	MULT MUT MILE MI	N
7.4.2	Voltage surge test	et tet tet st	IN INCH
7.4.3	Impulse test	over the the the	N

A	ANNEX A, TESTS FOR RESISTANCE TO HI	EAT AND FIRE	o⊬ N
A.1	Flammability test for fire enclosures of movab exceeding 18 kg, and of stationary equipment		N
A.1.1	Samples	TEX LIER NITER WIFE	, Ñ
J.	Wall thickness (mm)	n n n	N
A.1.2	Conditioning of samples; temperature (°C):	LIEN LIEN WHITEN WHITEN	JAN N
A.1.3	Mounting of samples	THE MILES WHITES WHITES	N
A.1.4	Test flame (see IEC 60695-11-3)	Sur St. St. A	↓ N
MILL	Flame A, B, C or D	life wife while while who	ςN.
A.1.5	Test procedure	711 J. J. J. J. J. J.	N
A.1.6	Compliance criteria	if all it was war	WN
At A	Sample 1 burning time (s)		N
T NU	Sample 2 burning time (s)	The sur sur sur sur	N
WALTE	Sample 3 burning time (s)	MITER WAITER WAITER WALTER WAY	N
A.2	Flammability test for fire enclosures of movab exceeding 18 kg, and for material and compo (see 4.7.3.2 and 4.7.3.4)		- M
A.2.1	Samples, material	LIER WATER WATER WATER WAITER	an N
IEK STE	Wall thickness (mm)	t it let tet tet	√° N
A.2.2	Conditioning of samples; temperature (°C):	Whit with the the	N
A.2.3	Mounting of samples	TIFE NITER MITER WHITER WHI	N.
A.2.4	Test flame (see IEC 60695-11-4)	The state of	N
Wer w	Flame A, B or C	LIER OLIE WILL WALL WALL	"UN
A.2.5	Test procedure	Material approved by UL	N

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	IEC/EN 609	50-1	
Clause	Requirement – Test	Result – Remark	Verdict
A.2.6	Compliance criteria	A A A A	et John N
	Sample 1 burning time (s)	Write Mrs. Mrs. My	N
LIET AND	Sample 2 burning time (s)	et ret tet tet	NITE NITE
	Sample 3 burning time (s)	The Mr. M.	N
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	* WILLER MULTER MULTER	With the No.
WALTER.	Sample 1 burning time (s):	LIET SLIET WILEY ON	TEK WUTTE WIT
lit	Sample 2 burning time (s)	1111 1211 111	L N
Wr. M	Sample 3 burning time (s)	LIEN ALTER WITE WITE	Mur. M.N
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples	EX TEX CITES WITE	and was No
A.3.2	Test procedure	111 121 1	, N
A.3.3	Compliance criterion	- LIER RUET	N' W'

Br. W	ANNEX B, MOTOR TESTS UNDER ABNOR 5.3.2)	MAL CONDITIONS (see 4.7.2.2 and	W.N.
B.1	General requirements	No motor	N CON
	Position	The sur sur	N
ET WITE	Manufacturer	TEX TEX LITER OUTER OF	N
TEX	Type	The same same same	N
211,	Rated values	antit with any and	N
B.2	Test conditions	The state of the	N
B.3	Maximum temperatures	MI MI MIN	, N
B.4	Running overload test	A THE THE	N N
B.5	Locked-rotor overload test	ite our my for my	N
X LIEX	Test duration (days)	at the first flesh	N
211.	Electric strength test: test voltage (V):	with whi with whe will	N
B.6	Running overload test for d.c. motors in secondary circuits	LIET OLIEK WILEK WILEK WILL	N.
B.6.1	General		N
B.6.2	Test procedure	LIET SLIER WILL WILL MALL	N N
B.6.3	Alternative test procedure		N
B.6.4	Electric strength test; test voltage (V):	Ex sitex writer while wait o	N.
B.7	Locked-rotor overload test for d.c. motors in s	econdary circuits	↓ N
B.7.1	General	LIER NITE WILL WALL WALL	N
B.7.2	Test procedure	who are the contract of	N
B.7.3	Alternative test procedure	LIER STEE WILL MILL MALL	W.N
B.7.4	Electric strength test; test voltage (V):	II II I	N



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	IEC/EN 609	50-1	
Clause	Requirement – Test	Result – Remark	Verdict
B.8	Test for motors with capacitors	et tet tet aftet aftet out	N N
B.9	Test for three-phase motors	We All the the	N
B.10	Test for series motors	CH TEX TEX STEEL STEEL	N N
EX NICTE	Operating voltage (V):	the state of the state of the state of	N N
C	ANNEX C, TRANSFORMERS (see 1.5.4 and	15.3.3)	< N≤
ant.	Position	alle militarie militaria mi	N
1EX	Manufacturer		N
ir vi	Type:	Will Mrite Mrite Mail Mrite	N
MUL	Rated values	EX TENNITE MIT MILL	JI NJ
t est	Method of protection	37 /3	⊬ N
C.1	Overload test	- NITE WIFE WALLE WALLE W	N
C.2	Insulation	4 4	N _O
Mr. 1	Protection from displacement of windings:	Writer Mulies Mulie Mus	W.N.
D	ANNEX D, MEASURING INSTRUMENTS FO 5.1.4)	OR TOUCH-CURRENT TESTS (see	N
D.1	Measuring instrument	Write must and when	N
D.2	Alternative measuring instrument	at the state of	N.
211	The state of the state of the state of	The wife must not me	
EJEL	ANNEX E, TEMPERATURE RISE OF A WIN	DING (see 1.4.13)	N
F S	ANNEX F, MEASUREMENT OF CLEARANC (see 2.10 and Annex G)	CES AND CREEPAGE DISTANCES	N
r. Mrr		ITEX NUMBER OF THE NUMBER OF T	Mr.
G	ANNEX G, ALTERNATIVE METHOD FOR D CLEARANCES	ETERMINING MINIMUM	n let N
G.1	Clearances	my my my my	N
G.1.1	General	let test the attention	N
G.1.2	Summary of the procedure for determining minimum clearances	with the tit tit til	N
G.2	Determination of mains transient voltage (V)	Tip with mer mer my	N
G.2.1	AC mains supply	a state of the state	N N
G.2.2	Earthed d.c. mains supplies	white white with what	N ₂
G.2.3	Unearthed d.c. mains supplies	White Autien Mile Auti M	N
G.2.4	Battery operation:	at at all officer	N



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	IEC/EN 609	50-1	165
Clause	Requirement – Test	Result – Remark	Verdict
G.3	Determination of telecommunication network transient voltage (V)	Writer Miller Mulier Mulier Mulie	N N
G.4	Determination of required withstand voltage (V)	TEX WALTER WALTER WALTER WALTER	N
G.4.1	Mains transients and internal repetitive peaks	A MILIER MALIER MALIER MALIER M	L'AND
G.4.2	Transients from telecommunication networks	WHITE WHITE WHITE WHITE WAL	N
G.4.3	Combination of transients	LIFE WILL MILL MILL MILL	N N
G.4.4	Transients from cable distribution systems	the state of the	.⊘N
G.5	Measurement of transient voltages (V)	The state of the s	N N
t CIEN	a) Transients from a mains supply	A At At	N.
- n	For an a.c. mains supply	MULI MULI MULI MU	N
TEX	For a d.c. mains supply	at the the	N
2) Z	b) Transients from a telecommunication network	WELL MAIL MAY MAY	₩N
G.6	Determination of minimum clearances:	TEX LIET WITE WITE WILL	N
H W	ANNEX H, IONIZING RADIATION (see 4.3.1)	2)	N.
11 212	ANNEX II, IONIZING RADIATION (See 4.5.1)	Will Mail Mail	W 139
J Wille		DOTENTIAL C (con 0.0.5.0)	
1112	LANNEX J. TABLE OF ELECTROCHEMICAL	PUTENTIALS (see 2.5.5.6)	N
7	ANNEX J, TABLE OF ELECTROCHEMICAL Metal(s) used	POTENTIALS (see 2.6.5.6)	N N
ALTER O	Metal(s) used	POTENTIALS (see 2.6.5.6)	N N
murit at	Metal(s) used	white with the street with	-00.
	Metal(s) used ANNEX K, THERMAL CONTROLS (see 1.5.3)	3 and 5.3.8)	N
K.1	Metal(s) used	white with the street with	N
K.1 K.2	ANNEX K, THERMAL CONTROLS (see 1.5.3 Making and breaking capacity Thermostat reliability; operating voltage	3 and 5.3.8)	N N N
K.1 K.2 K.3	Metal(s) used ANNEX K, THERMAL CONTROLS (see 1.5.3) Making and breaking capacity Thermostat reliability; operating voltage (V)	3 and 5.3.8)	N N N
K.1 K.2 K.3	Metal(s) used ANNEX K, THERMAL CONTROLS (see 1.5.3 Making and breaking capacity Thermostat reliability; operating voltage (V)	3 and 5.3.8)	N N N N N
K.1 K.2 K.3 K.4	ANNEX K, THERMAL CONTROLS (see 1.5.3 Making and breaking capacity Thermostat reliability; operating voltage (V) Thermostat endurance test; operating voltage (V) Temperature limiter endurance; operating voltage (V)	3 and 5.3.8)	N N N N N N
K.1 K.2 K.3 K.4	ANNEX K, THERMAL CONTROLS (see 1.5.3 Making and breaking capacity Thermostat reliability; operating voltage (V)	No thermal limiter or thermostat OR SOME TYPES OF ELECTRICAL	N N N N N N N
K.1 K.2 K.3 K.4 K.5 K.6	ANNEX K, THERMAL CONTROLS (see 1.5.3 Making and breaking capacity Thermostat reliability; operating voltage (V)	No thermal limiter or thermostat OR SOME TYPES OF ELECTRICAL	N N N N N N N N N
K K.1 K.2 K.3 K.4 K.5 K.6	ANNEX K, THERMAL CONTROLS (see 1.5.3 Making and breaking capacity Thermostat reliability; operating voltage (V)	No thermal limiter or thermostat OR SOME TYPES OF ELECTRICAL	N N N N N N P



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TEN	IEC/EN 60950-1	JEY J
Clause	Requirement – Test Result – Remark	Verdict
L.4	Pencil sharpeners	N
L.5	Duplicators and copy machines	N
L.6	Motor-operated files	N
L.7	Other business equipment	Р
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N
M.1	Introduction	N N
M.2	Method A	△N
M.3	Method B	N
M.3.1	Ringing signal	Z, N
M.3.1.1	Frequency (Hz)	√ [©] N
M.3.1.2	Voltage (V)	N
M.3.1.3	Cadence; time (s), voltage (V)	N.
M.3.1.4	Single fault current (mA)	N
M.3.2	Tripping device and monitoring voltage:	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N
M.3.2.2	Tripping device	Jr. N
M.3.2.3	Monitoring voltage (V):	N.
MUL	WILL WILL WILL WILL WILL WE	11 11
N LIEK	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
N.1	ITU-T impulse test generators	N
N.2	IEC 60065 impulse test generator	N
P	ANNEX P, NORMATIVE REFERENCES	I CON
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N N
Muri	a) Preferred climatic categories	N
EX	b) Maximum continuous voltage:	N
Whit 4	c) Pulse current	~N
ex	TEX LIEX SLITE WILL MAN WIN WIN THE STATES	TEX.
R	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 _N
R.2	Reduced clearances (see 2.10.3)	N
TEX	THE STEE WITE WALL WAS AND THE STEEL ST.	t de
S N	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N.N



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F JEF	IEC/EN 60		5 ET . S
Clause	Requirement – Test	Result – Remark	Verdict
S.1	Test equipment	t at let let liet out	N
S.2	Test procedure	an we were	N
S.3	Examples of waveforms during impulse testing	IN EX MITEX WHITEK WHITEK WHITEK	N
T WALL	ANNEX T, GUIDANCE ON PROTECTION (see 1.1.2)	AGAINST INGRESS OF WATER	N
MILIER.	a street with the same	See separate test report	N
U.C. CALL	ANNEX U, INSULATED WINDING WIRES INSULATION (see 2.10.5.4)	FOR USE WITHOUT INTERLEAVED	an N
TEX OUT	E WILL MULL MULL AND MILL	See separate test report	N
10,		with the sure of	n a
Vanities	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	TEX NUTER WILLER WILLER	N
V.1	Introduction		N
V.2	TN power distribution systems	ALTER MALLE WALL WALL	-MN
LEX.	TEN LIFE OUT NUTE IN		TEX
W w	ANNEX W, SUMMATION OF TOUCH CURRENTS	any ex lifet white while while	N.
W.1	Touch current from electronic circuits	THE ITER STIEF WITE OF	N
W.1.1	Floating circuits	The the the	N
W.1.2	Earthed circuits	ex Tex Itex alies with wi	N
W.2	Interconnection of several equipments	me me me me	N
W.2.1	Isolation	TE MITE MITE	J.N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective ea	arth	N
4 1	t let tex tex action white	ny ny my m	
X with	ANNEX X, MAXIMUM HEATING EFFECT C.1)	IN TRANSFORMER TESTS (see clause	N
X.1	Determination of maximum input current	a state of the state of	N
X.2	Overload test procedure	Rith will with when the	N
LIEK O	Life with whit white and	A A A THE THE STATE	CLIER
Y 20	ANNEX Y, ULTRAVIOLET LIGHT CONDIT	TONING TEST (see 4.3.13.3)	N
Y.1	Test apparatus	the state of the	N
Y.2	Mounting of test samples	are write men men of	N
Y.3	Carbon-arc light-exposure apparatus	ii da	N
Y.4	Xenon-arc light exposure apparatus	the write must make my min	N
LITER	NITE WILL WALL THE THE	the state of the state	Y CLIE
Z	ANNEX Z, OVERVOLTAGE CATEGORIES	S (see 2.10.3.2 and Clause G.2)	N



Reference	e No.: WTS15S0526196S Page 26 of 47	in.
+ JEX	IEC/EN 60950-1	TEX S
Clause	Requirement – Test Result – Remark	Verdict
CLIFE'S	nick tek ite vini with the way the tek iter at	EX OLIEN
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N
LIE TOL	THE WILL WAS AND AND THE STREET STREET STREET	MITE
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION	Р
IN INCITE	WILL MA THE THE THE LIFE WITH	INLIE WY
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	N
CC.1	General	N
CC.2	Test program 1	N
CC.3	Test program 2	N
	the first tell with the min me and the me	
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	N
DD.1	General	N
DD.2	Mechanical strength test, variable N	N
DD.3	Mechanical strength test, 250N, including end stops	N
DD.4	Compliance:	N N
	THE THE TOTAL STREET STREET	L et
EE N	ANNEX EE, Household and home/office document/media shredders	N. N
EE.1	General	N
EE.2	Markings and instructions	Nu Nu
.+	Use of markings or symbols	N
WALTE	Information of user instructions, maintenance and/or servicing instructions:	II NI
EE.3	Inadvertent reactivation test	N.
EE.4	Disconnection of power to hazardous moving parts:	n, N
IET NI	Use of markings or symbols	N
EE.5	Protection against hazardous moving parts	N
A TOTAL	Test with test finger (Figure 2A)	N
A. C. F.	Test with wedge probe (Figure EE1 and EE2):	N



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et Jex J	EX WILE WALLE MAL	IEC/EN 60950-1	e at at	TEX TEX
Clause	Requirement + Test	- TEX SLIFE WITE	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1

Information technology equipment – Safety –

Part 1: General requirements

Differences according to...... EN 60950-1:2006/A11:2009/A1:2010/A12:2011

Attachment Form No...... EU_GD_IEC60950_1B_II

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EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CENELEC COMMON MODIFICATIONS

	IEC 60950-1, GROUP DIFFEREN	ICES (CENELEC common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
Contents	Add the following annexes:	EX STEEL SAVE MAIL MAIL MA	Р
		Normative references to international publications with their corresponding European publications	WALTER
	Annex ZB (normative)	Special national conditions	LIFER
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list:		P
whitek whitek	1.4.8 Note 2 1.5.1 1.5.8 Note 2 1.5.9.4 2.2.3 Note 2.2.4 2.3.2.1 Note 2 2.3.4 2.7.1 Note 2.10.3.2 3.2.1.1 Note 3.2.4 4.3.6 Note 1 & 2 4.7 4.7.3.1 Note 2 5.1.7.1 6 Note 2 & 5 6.1.2.1 6.2.2 Note 6.2.2.1 7.1 Note 3 7.2 G.2.1 Note 2 Annex H	Note 2 & 3	TEX OF
General (A1:2010)	Delete all the "country" notes in 1:2005/A1:2010) according to t 1.5.7.1 Note 6.1.2.1	n the reference document (IEC 60950- the following list: Note 2	P
	6.2.2.1 Note 2 EE.3	Note	



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at 1st 5	EX SITES ONLESS	IEC/EN 60950-1		at at	TEX
Clause	Requirement + Test	et ret sitet mite	Result - Remark	V. Mur.	erdict

Clause	Requirement + Test	Result - Remark	Verdict
1.3.Z1	Add the following subclause:	ex tex tiex wife.	N N
	1.3.Z1Exposure to excessive sound pressure	y mer me m 2	
	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.	whitek whitek whitek white whitek whitek	ier whi White Witex
	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	est whitek whitek whitek w	VILER ON
	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.	Writek Muriek Muriek Muriek	WALTEX WALTEX
(A12:2011)	In EN 60950-1:2006/A12:2011	TEX TEX STER WITE	N
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	in the Mile in	
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	A MILIER WALTER WHITER WA	I.E. MU
1.5.1	Add the following NOTE:	L at at a	P
	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC	murrer marie marie and	WAL
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.	TEX WITH	N N
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.	Whitek whitek whi	N WALTER



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t JEK J	EX WITER WITE WAITE	IEC/EN 60950-1	at at at	TEX JEX
Clause	Requirement + Test	TEX SLIER MITE	Result - Remark	Verdict

Clause	IEC 60950-1, GROUP DIFFERENCES (CENELEC c	Result - Remark	Verdic
et white	Zx.1 General 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.	IEK MILIEK MILIEK MIL	S I N
	A personal music player is a portable equipment for personal use, that: — is designed to allow the user to listen to recorded or broadcast sound or video; and — primarily uses headphones or earphones that can be worn in or on or around the ears; and — allows the user to walk around while in use. 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.	until white whitek whitek whitek whitek whitek whitek whitek whitek whitek	und autoritet Tiet untiet Tiet un Ti
	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.	Wiley Miles Miles M	NITEK WALTER
	The requirements in this sub-clause are valid for music or video mode only.	it with any and	
	The requirements do not apply: — while the personal music player is connected to an external amplifier; or — while the headphones or earphones are not used. 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.	antifet whitek whilek	white white
	The requirements do not apply to: - hearing aid equipment and professional equipment; 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.	whitek whitek whitek	et out the out
Whitek white	 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. 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. 	TEX MUTER MUTER MUTER	N N N N N N N N N N N N N N N N N N N
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	Whitek whitek whitek	MUTTY MUTT



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et tex		IEC/EN 60950-1			
Clause	Requirement + Test	t tex street with	Result - Remark	r. Mur	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
EX WALTER WALT WALTER W	 Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq, T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and 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. 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. 	TEK WHITEK	TE WELLEN WALTER WALT
	All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and	INTEX WHITEK WHITEK	JUNITER WALTER





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et sex s		IEC/EN 60950-1		
Clause	Requirement + Test	et let lifet mir	Result - Remark	Verdict

Clause			<i>y</i> .
Clause Life white Mitely whi	Requirement + Test c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off. d) have a warning as specified in Zx.3; and e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV	Result - Remark	Verdict N
	measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1. For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of	JUNITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHITER WHIT	EX WALE WALES INLIES WALES



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Clause	Requirement + Test	ex rex alter mite	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
LIEY WHITE WHITE WHITE	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:	LIEK WITER WHITER WHITER	
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	tiek wiek witek wit	ex writex.
TEK WALTER WALTER WALTER WALTER WALTER WALTER	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.	LEX WHITEX WHITE	un tek unt fek untfek untfek untfek untfek untfek
WALTER W	Zx.4 Requirements for listening devices (heads 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.	antifet whitet whitet w	N N N N N N N N N N N N N N N N N N N
	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 with 85dBA		writek w



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et sex s		IEC/EN 60950-1		
Clause	Requirement + Test	et let lifet mir	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
THE WHITE WALLEY	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.	JEK WALTER WALTER WALTER	THE WALTER WALTER
	This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).	LIER WHITER WHITE WH	ner were
WALTER	NOTE An example of a wired listening device with digital input is a USB headphone.	ALTEK MITEK MALTER	WALTER WALT
	 Zx.4.3 Wireless listening devices In wireless mode: with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and 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. NOTE An example of a wireless listening device is a 	TEK WHITEK WHITE	AND TEX WALTER WHITE WALT WHITE WALTER WHITE WALTER WHITE WALTER WHITE WALT WHITE WA
WALTER W	Bluetooth headphone. Zx.5 Measurement methods 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. NOTE Test method for wireless equipment provided without	Whitek Multer Multer	antiel antie



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+ 164 5	EX CLIER WITER WALT	IEC/EN 60950-1	s at at	TEX TEX
Clause	Requirement + Test	TEX SITES MITE	Result - Remark	Verdict

West and	IEC 60950-1, GROUP DIFFERENCES (CENELEC c		211
Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows:	CEX JEX SIFEX WITER	N
	Basic requirements	, me me m	S
	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):	whitek whitek whitek whi	is Example white tilt
	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;	itek uniter white white	ntiek wi
ALTEK IN	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;	united whited united united the	Tex wait
iek whitek	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.	ner where wherek whitek w	W N WALTER WAL
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	JUNITER WHITER WHITER WHITER	SUNTER
2.7.2	This subclause has been declared 'void'.	IL A LEK TEK	Р
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	m m m	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".	MATER WHITE WHITER WHITE	N
	In Table 3B, replace the first four lines by the following:	TEX WILLEX WILLEY WILLEY	UNLIE
	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	A MUTER MUTER MUTER M	N.TEX WY
	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} .	WALTER WALTER WALTER	ie walte
	In NOTE 1, applicable to Table 3B, delete the second sentence.	TEK LIEK SLIEK MLIE	MILIEK



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at 1st 5	EX SITES ONLESS	IEC/EN 60950-1		at at	TEX
Clause	Requirement + Test	et ret sitet mite	Result - Remark	V. Mur.	erdict

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:	LEX WALTER WALTER WA	TO N
	Over 10 up to and including 16 1,5 to 2,5 1,5 to 4	MULTER MULTER WALTE	mer mer
	Delete the fifth line: conductor sizes for 13 to 16 A	MITER WALTER WALTER	WALTER WALTER
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to:	THE THE LIER .	NITEL NITH
	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and	et white miles whi	EK WY TEK WY
	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 Whitek White	unity whit
white white	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	nites write write.	TEX STEX
Annex H	Replace the last paragraph of this annex by:	in the man	N
	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.	MULTER WALTER WALT	EX MALEX MAL
	Replace the notes as follows:	alter mier mit	MUL! MUL!
	NOTE These values appear in Directive 96/29/Euratom.	M. M. St.	LIEK NITEK
	Delete NOTE 2.	VII. MUT. M	201
Bibliography	Additional EN standards.		LET LET

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	16x - 16
, Wr. M	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	" WILL

MITER	ZB ANNEX (normative) TEX STEX NITER WITE	MITE
72.	SPECIAL NATIONAL CONDITIONAL	ONS (EN)	
Clause	Requirement + Test	Result - Remark	Verdict
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.	Tax Multex Multex Multex M	N N
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	t itek strek mitek smit	NIE



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et ret	LIER WILL WILL WILL	IEC/EN 60950-1		TEX TEX
Clause	Requirement + Test	et liet ali	Result - Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.7.1	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.	NITER WHITER WHITER	MITE WALTER
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).	LIEK WILLER MILIER MI	TEL N-
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.	EX WAITER WAITER WALTE	w Nu





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t JEH J	ex aliex while	IEC/EN 60950-1		et let	- JEX
Clause	Requirement + Test	LEK LIEK WITE	Result - Remark	MILE	Verdict

	ZB ANNEX (normative)		
LEX LEX	SPECIAL NATIONAL CONDITION	NS (EN)	et ret
Clause	Requirement + Test	Result - Remark	Verdic
	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.	Whitek whitek whitek	white white
	The marking text in the applicable countries shall be as follows:	at left set s	TEX TEX
	In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	antic mer me	
	In Norway: "Apparatet må tilkoples jordet stikkontakt"	WALTER WALTER WALTE	MULL MUL
	In Sweden: "Apparaten skall anslutas till jordat uttag"	NITER WHITEK	WALTER WALTER
	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 WHITEX WHITEX WHI	EX MALIEX MA
	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.	JUNITED WAITE WALTER	WILEX WILEX
	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:	The The The	TEK WITEK W
	"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)."	JUNITER WHITER WHITER JUNITER WHITER WHITER JUNITER WHITER WHITER JUNITER WHITER WHITER JUNITER WHITER WHITER	whitek whitek



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at 18th s	iek aliek wiek an	IEC/EN 60950-1		at let let
Clause	Requirement + Test	et cet sites with	Result - Remark	Verdict

mr m	ZB ANNEX (normative)		
et de	SPECIAL NATIONAL CONDITIONAL C	NS (EN)	est let
Clause	Requirement + Test	Result - Remark	Verdict
EK WALTEK	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.	Whitek whitek white	A MUSE MUSE
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	MALIER WALTER WALTER	Murr Murr
	"Utstyr som er koplet til beskyttelsesjord via 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."	LIEK WHITEK WHITEK WAS	niter miter was
	Translation to Swedish:	White war war	21/2
antiek antik	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	netek whitek whitek wh	ONLIER WHITER
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.	unitek unitek unitek	NUMER WALTER
r. Mur	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	W The The	, m, m
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	- LIEK MIEK MITE	Will Will
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.	Whitek writer	MALTEK WALTER
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 et et	TEL TEL
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	The Mary Mary M	N
2.7.1 PER SUPERIOR SU	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.	Whitek whitek whitek	whitek whitek



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t JEH J	ex aliex while	IEC/EN 60950-1		et let	- JEX
Clause	Requirement + Test	LEK LIEK WITE	Result - Remark	MILE	Verdict

	ZB ANNEX (normative)	WILL WULL MULL	
et et	SPECIAL NATIONAL CONDITIONAL C	ONS (EN)	et et
Clause	Requirement + Test	Result - Remark	Verdict
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.	Et MITEK MAIEK MAIR	* And Et N
3.2.1.1 wh	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:	MULTER WHITER WHITER	N. I. W. L.
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	the state of	EK JEK
	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A	antic war was	- 'A' 'A'
	SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A	Whitek Whitek White	Muri Muri
white whi	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:	WILEX MUTER MUTER	unite unite
	SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A	ex whitex whitex whit	ik white wh
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A	WALTEX WALTEX WALTER	WALTE
3.2.1.1	SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V,		A N
J.Z. I. I WALTER	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.	the property of	iek mitek w
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	MUTER MUTER MUTER	whitek whitek
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 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.	LEE WHITEK WHITEK WHI	ex my tex my



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				<u> </u>	
et tex		IEC/EN 60950-1			
Clause	Requirement + Test	t tex street with	Result - Remark	r. Mur	Verdict

	ZB ANNEX (normative)		
11 16	SPECIAL NATIONAL CONDITIONAL C	NS (EN)	et et
Clause	Requirement + Test	Result - Remark	Verdict
3,2.1.1	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.	Whitek whitek white	H MA THE MALE
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	united white white	WILEK WILEK
	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.	EX WHITEX WHITEX WHITE	TEK ON TEK ON
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	NUTER WHITER WHITER	MILIEK WALTER
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.	TEX WHITEX WHITEX WHI	EX WALLEY WALLEY WALLEY
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	LIF WHITER V	INLIER WALTE
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.	Whitek whitek whitek	White white
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	The Marie Marie of	N
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.	White while whi	white white



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				<u> </u>	
et tex		IEC/EN 60950-1			
Clause	Requirement + Test	t tex street with	Result - Remark	r. Mur	Verdict

MUT. MU.	ZB ANNEX (normative)		
it il	SPECIAL NATIONAL CONDITION	NS (EN)	et et
Clause	Requirement + Test	Result - Remark	Verdict
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	white white
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.	LIEK WHITEK W	TE MIN N MALTER WALTER MITER WALTER
4.3.6 M	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.	TER WHITE WHITE WHITE	
5.1.7.1 Sometimes of the second secon	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	JEK WHITEK WHITE	an on N LIEX ANLIEX ANLIEX WALTER ANLIEX WALTER TEX WALTER ANLIEX WALTER TEX WALTER ANLIEX WALTER TEX WALT
ex whitex white	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;	JUNITER WHITER	WALLEY TEX TEX TEX



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				<u> </u>	
et tex		IEC/EN 60950-1			
Clause	Requirement + Test	t tex street with	Result - Remark	r. Mur	Verdict

me m	ZB ANNEX (normative)		
et e	SPECIAL NATIONAL CONDITIONAL C	NS (EN)	LEX LEX
Clause	Requirement + Test	Result - Remark	Verdict
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:	t whitek whitek white	A MULT
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	MULTER MULTER WALTER	White white
White whi	-two layers of thin sheet material, each of which shall pass the electric strength test below, or	LIEK WALTER WALTER W	NITER WITE
TEX WALTER	-one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	EX WAITEX WAITEX WAT	IEX ANTIEX AN
MULIER WA	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	MILER WHITER WHITER	A WHITE WHITEK
	-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	* Writes Maries Mari	ex uniex uni
- LIEN I	2.10.10 shall be performed using 1,5 kV), and	et let let	LIE NITE
witest and	-is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.	while while while	WITEH WITEH
LIEY WALTER	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	if the sur	TEK M TEK M
NUTEX.	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	Whitek Multer Multe	A MULL
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	UNITER WALTER WHITER	white white
	-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 WHITEE WHITEE WHI	Et un fest un
WALTER	-the additional testing shall be performed on all the test specimens as described in EN 60384-14:	MITER WALTER WALTER	MULIE MULIE
WALTEK WA	-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.	NITER WHITEK	uniter uniter



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et text	LIER OLIER WILE WILL	IEC/EN 60950-1	a state de	H TEH CTEN
Clause	Requirement + Test	. Let life out	Result - Remark	Verdict

	ZB ANNEX (normative)								
SPECIAL NATIONAL CONDITIONS (EN)									
Clause	Requirement + Test	Result - Remark	Verdict						
6.1.2.2	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.	Whitek wh	AND EX N						
7.2	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.	MITER WHITER WHITE	Whitek whitek						
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	TEX STER WITER W	LIEK WILLIN						
7.3	In Norway , for installation conditions see EN 60728-11:2005.	the set of	Et NEXN						





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et Jet J	IEC/EN 60950-1	t at at at a	SEX LIEX
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1 TAB	LE: list of critical con	nponents	ex liex wife	White while	W. W.
object/part No.	manufacturer/ trademark	type/model	technical data	Standard (Edition / year)	mark(s) of conformity ¹)
Plastic enclosure	LG CHEM LTD	LI911	HB,	UL 94	UL E67171
PCB	HENG SHUN TECHNOLOGY CO., LTD.	M1	V-0, 105 °C	UL 796	UL E324348
Alternative	HENG SHUN TECHNOLOGY CO., LTD.	M2	V-0, 130 °C	UL 796	UL E324348
Alternative	Various	Various	V-0	UL 796	UL
1) An asterisk in	dicates a mark which	assures the agr	eed level of surveil	lance	, d

1.6.2	TABLE: elect	rical data	(in norm	nal condition	ns)	.4	the test of the Property
Input	x x		TE	Output		in.	Mr. M. M. A.
U (V/Hz	P (W)	I (A)	Irated (A)	U (VDC)	P (W)	I (A)	condition/status
For Vega A	AIS AtoN Static	n(VAIS-3	BE)	V		EX	TEX LIEK OLIEK MIER W
7	.tit	7	2	5	8.10	1.62	Normal operating condition
	init wal	m_	2	12	8.16	0.68	ex tex atternation
For Display	y Panel(WMR7	50)	TEX	INLIE WAL	, MUL.	M	14, 14, 15

2.10.3 and 2.10.4	TABLE: cle	ABLE: clearance and creepage distance measurements							
clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required cr (mm)	cr (mm)			
	TEX- ITE	the galleria	Vr. Alvr.	1/1 - 1/1		.			
Supplementary informatio	n:								

2.10.5 TABLE: distance through insulation measurements								
distance through insulation (DTI) at/of:	U peak (V)	U rms (V)	test volt- age (V)	required DTI (mm)	DTI (mm)			
t at tex tex ster strik white whi	WILL.	W W	70		J J			
Supplementary information:								



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			IEC/I	EN 60950	-1						
Clause	Requireme	ent + Test	CEX JEX	INLIER	Re	sult - Rem	ark	M	Verdict		
4.3.8	TABLE: batte	eries	. wr	at the	161 ⁴ 5		الم المالية	NITER	NN N		
	f 4.3.8 are ap		when approp	oriate batte	ery	- JEX	-N.	WELLER OF	V/L N-		
Is it possibl	e to install the	battery in a	reverse pola	rity positio	n?	-m	701	3, ,	N		
National Property of the Parket	Non-red	chargeable b	atteries	et	R	echargeal	ole batteri	es	in with		
WALTER W	Discha	arging	Un- intentional charging	Charging Discharging		arging		ersed rging			
INLIE L	Meas. current	Manuf. Specs.	MUTI	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.		
Max. current during normal condition	white white	TEK LIEK	WALLE AND	-mr	Allo LEIF	Millet.	M ^L IEK M ^L IEK VEK	strest out	iek- m		
Max. current during fault condition	TEX WHITEK	unir dir	iek unitek	WALTE	- ni	ne ur		MUTTER TAN	WALTER LIER		
- 111	1/1, 1,	at at				<u> </u>	wr.	21/2 1	12 2		
Test results			Wr. Ou	100			7.CH	int o	Verdict		
- Chemical			14 16			-1017, 0	Wr. M	21	N		
	of the battery				~``		et de	N			
- Emission	of flame or ex	pulsion of m	olten metal	TEN	CLIE.	The an	W.	N			
	- Electric strength tests of equipment after completion of tests										

4.5	TABLE: thermal requirements For Veg	ja AIS At	oN Statio	on(VAIS-3	BE)	MILLE	WILL B W
بلا يا	supply voltage (VAC)	5	12	711	10,		
WALT	ambient T ₁ (°C)	60.0	60.0	O.E.K	C. L. F. F.	WILE W	
t	ambient T ₂ (°C)	60.0	60.0	111.	100	`	.+:+
Maximum measured temperature T of part/at:		NALIEK V	NITEK J	T (°C)	LIFE W	NLTE WILL	allowed T _{max} (°C)
Input term	65.1	63.7	EX- 5	EF - 1		Ref.	
Internal wire			64.4	M	111	72	75
For UAS2	21-B board	* .	* 16	X TEX	· LIFE	LIE	WILL WA
C318 bod	y of the tell mile and	67.2	64.8	Me	14,	74.	105
RA35H15	16M body	70.8	69.1	TEX	LIFE	ULIE OF	95
L907		73.6	73.3	20.	<i>y</i>		120
L301 wind	ding what was a second	75.0	73.8	CET C	ITET- IN	The Toll	120
L303	et tet itet itet with	73.9	73.1		7,,		120

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		اس اتناس	EC/EN 609	50-1				
Clause	Requirement + Test	LET S	EK MITER	MALTE	Result -	Remar	k were me	Verdict
CIET IN	TE WITE WALL ON	MIL		1 4	·	1	Contract of	10.10
PCB near l	U506	<u> </u>	74.2	74.4	<u> </u>	² 12 ₅₂ -	m 211	130
PCB near l	U703	WILL	75.8	74.9			- et -et	130
PCB near l	J8	,et	75.1	73.8		الل	vr. Mur	130
PCB near (Q306	Whin 4	74.3	73.5		, L	et let	130
PCB near U200				76.3	MILL	ML	1/12 1/	130
For VAS22	1#4 board	ur, m	70,		*		+ TEX	LEK LIE
J1 terminal			73.1	72.4	antit.	WILL	Mar Mr.	Ref.
C44 body			70.9	69.9	14	EX	TEX ITE	105
Inductor wi	nding	L TEX	77.8	77.4	11 1	117	m m	120
PCB near r	main IC	Alle	76.9	75.3	<u>.</u>	.e-	TEL LIEK	130
For small b	poard			NIP.	July .	1/1	110	24, 22,
J7	WILL MULTE MULT		69.8	69.1	14	*	EX JEX	Ref.
PCB near 1	TZ1_	TEX	63.4	62.8	MULL	11/2		130
Plastic encl	losure inside	701	61.5	61.1	, EK	TEK	TEK NL	Ref.
Plastic enclosure outside			60.6	60.4		m,	20, 20,	95
Supplemen	ntary information:			, et	TEX	TEX	ALTER WITE	Write a
temperatur	re T of winding:	t ₁ (°C)	$R_1(\Omega)$ t	₂ (°C)	$R_2(\Omega)$	T (°C)	allowed T _{max} (°C)	insulation class
70,				- (6)	- W	- 111	1/1 1	

4.5	TABLE: thermal requirements For Dis	splay Panel(WMI	R750)	WITT N	vr. in	Р
TEX	supply voltage (VAC)	12	-		et 16	1 - EX
n. 1	ambient T ₁ (°C)	60.0	"	J. July	. Alve	1/1,-
TEX	ambient T ₂ (°C):	60.0	<u> </u>	0	EX	Clerk.
Maximum measured temperature T of part/at:		T (°C)	allowed T _{max} (°C)			
Key swit	ch W	60.5	EK WITER	WITE.	11 - 11 ₁₁	85
Internal	wire of the same	63.9	70	, L	14	75
Input terminal		65.0	, ALTER N	The M	r, Mur	Ref.
Relay	LIER RITER WITE WILL WALL	72.4	3	<i>*</i>	x	85
E-capac	itor near input terminal	69.3	المار الأنام	MUL	Mer	105
PCB nea	ar main IC	78.5	,L 13		TEX	130
LCD par	nel L	61.3	NULL	MIL	m.	80
PCB nea	ar U4	75.5	L et	all the same of th	TEX	130
Plastic re	ear enclosure inside	64.2	WILL.	1	n m	Ref.
Plastic re	ear enclosure outside	60.8	,et	TEX.	TEX SIT	95
Front pla	astic enclosure	60.9	an Co	· m	74),	95



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t JEY				IEC	C/EN 60	950-1					
Clause	F	Requirement +	Test	TEX	المالية -	EL MAL	Result	- Remai	rk 🎺	The Man	Verdict
	150	WILL MAL	an w		- J.		- 16	TCX-		Ct C	11/16
	1	information:	XX 1	c*	TELLER	I di Lite	1 The state of the	11/L	Me	21/2	(A)
temperatui	re T	of winding:	t ₁ (°C	C) 1	$R_1(\Omega)$	t ₂ (°C)	$R_2(\Omega)$	T (°C)	C) allowed T _{max} (°C)		insulation class
J. John		LEK TEK	ILIEK NATER		<u> </u>						
4.5.5	TAI	BLE: ball press	sure test of the	rmop	olastic p	arts	LTE WAL	VIII.		n	N
MITER	allo	wed impression	on diameter (m	m)		:	≤ 2 mm				IEM JULIE
part	(EX	MITEK WAITE	X WALTER WA	JEE	MULL	WILL		mperatui °C)	re		on diameter
<u> </u>	The state of the state with the same was								-70		
Supplemen	ntary	information:	unic uni	- 4	.,		at .	EX	TEX	TEX	ALTER IN
72.			A STATE OF				0.00	r. "11		1/1	0. 0.
4.7	TAI	BLE: resistanc						/	<u>+</u>	SEX I	P
part	7.EX	manufac mate		typ	e of ma	aterial	thickness flammability (mm) class				evidence
we the strain of											1 NOTE
Suppleme	ntary	information: F	Refer to table 1	.5.1.			3,	<u> </u>		الي ا	CEX.
5.2	TAI	BLE: electric s	trength tests, in	mpul	se tests	and vo	Itage surg	ge tests	W.	w.r.	W N W
test voltage	e app	olied between:	יאוריין	101			pe (AC, e, surge)	test vo	ltage		reakdown Yes / No
		x 10th	TELL			100 L	211	100	`		
supplemen	tary	information:	10			¥ .	EX IE			itie. an	LIL WALL
5.3	TAI	BLE: fault cond	dition tosts		<u>anr.</u>	-nv.	2/1				Р
5.5		211		-	.44		60	1111	NICT	wir.	1,100
LIEK OLIE	pov	ver source for	ure (°C) EUT: manufac	turer	, mode	l/type,		A	TEX	LIER	CLIEN OF
. 70,	out	put rating				:	ال من	, in		Mr.	20, 20,
Componen No.	t un	Fault	Supply voltage (V)	Tes	t time	Fuse No.	Input curre (A)		Obser	vation	
For VegaA	IS A	toN Station(VA		11111		L ,	£ .614	- (4)		16k J	IET MITE
C318	EK	Short circuit	12VDC	10	0 min.	MULL	0.			hut down ds, no da	
C310		Short circuit	12VDC	10	0 min.	NALTE!	un 10.			hut down ds, no da	
C44	11	Short circuit	12VDC	10	0 min.	IIEK N	0.			hut down ds, no da	
For Display	/ Pai	nel(WMR750)	70	· ·		. +		* J	ek .	LIER OF	LIE NALTE
Capacitor	JE!	Short circuit	12VDC	10	0 min.	Mur	MUL			hut down ds, no da	
Supplemen	ntary	information: -		TEX	JEK	CLIE	NLTU	WLL	MIL	W	1/1



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Photo Documentation

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Model: VAIS-3E



Photo 1



Photo 2



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Photo Documentation



Photo 3

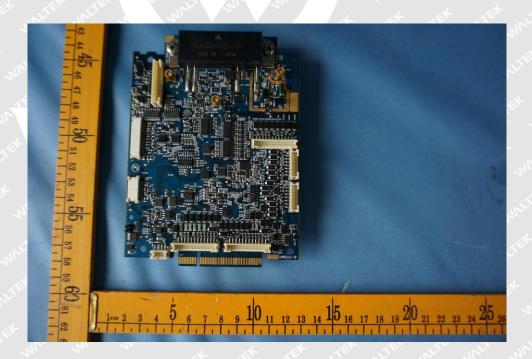


Photo 4



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Photo 5



Photo 6



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Photo 7



Photo 8



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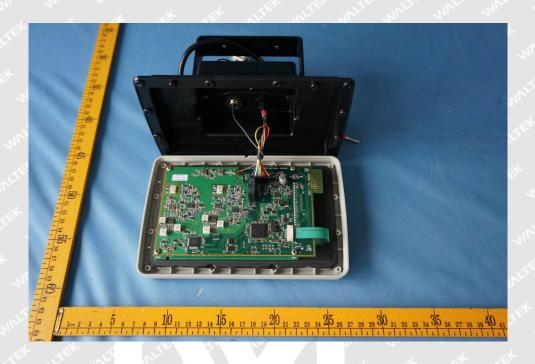


Photo 9



Photo 10



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Photo Documentation

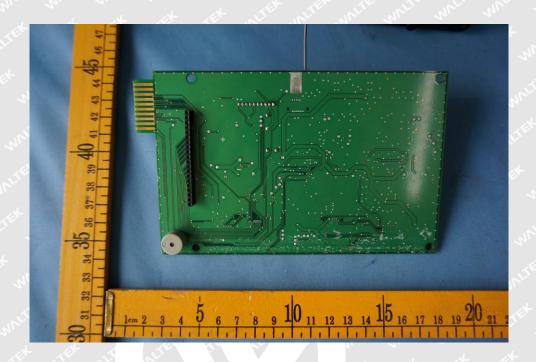


Photo 11



Photo 12



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Photo 13

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

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