



## APPLICATION FOR LOW VOLTAGE DIRECTIVE

## On Behalf of

BeiJing Creative LianJie Network Technology Co.,Ltd

## **POWER INJECTOR**

PT-PSE106GW, PT-PSE106GW-AR, PT-PSE106GWN

Prepared for: BeiJing Creative LianJie Network Technology Co.,Ltd

Rm 207 Ka Wah Building F, No.9 shangdi 3rd street, Haidian Dist.

Beijing, China 100085

Prepared By: World Standardization Certification & Testing CO.,LTD

Building A, Baoshi Road, Baoshi Science & Technology Park,

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TEL: 86-755-26996192; FAX: 86-755-26996253

Date of Test: November 02, 2015 to November 17, 2015

Date of Report: November 18, 2015
Report Number: WSCT1511002847S

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Report No.: WSCT1511002847S Issued: November 18, 2015 Revised: None Revi

## **Revision History Of Report**

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	WSCT1511002847S	Initial Issue	ALL	Wang Fengbing

## **ACCREDITATIONS**

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

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		TIMCO (The certificate registration number is Q2012033001)
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Oceani	Australia	NATA

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TEST REPORT				
EN60950 -1				
Information technology equipment – Safety-				
	Part 1: General requirements			
Report reference No:	WSCT1511002847S			
Tested by	Colin Chen			
(printed name and signature):	Coltan Upon .			
110791				
Checked by	Mike Zhao			
(printed name and signature):	WSET & Mike 2hao.			
	100			
Approved by (printed name and signature):	Wang Fengbing ***			
(printed name and signature)	Cuanting			
Date of issue:	November 18, 2015			
	World Standardization Certification &Testing CO.,LTD			
983	Building A, Baoshi Road, Baoshi Science & Technology Park, Bao'an			
Address	District, Shenzhen, Guangdong, China			
Testing location:	CBTL CCATL SMT TMP			
Address ::	Same as above.			
Applicant's Name:	BeiJing Creative LianJie Network Technology Co.,Ltd			
Address ::	Rm 207 Ka Wah Building F, No.9 shangdi 3rd street, Haidian Dist. Beijing,			
	China 100085			
Test specification				
Standard:	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013			
Test procedure:	LVD Approval			
Non-standard test method:	N/A			
Test Report Form No:	IECEN60950_1F			
TRF originator	SGS Fimko Ltd			
Master TRF	Dated 2014-02			
Master TRF	dated 2012-08			
	rmity Assessment Schemes for Electrotechnical Equipmentand Components			
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Test item description ...... POWER INJECTOR

Manufacturer...... BeiJing Creative LianJie Network Technology Co.,Ltd

DaTangLang Village, Dalingshan Town, Dongguan City, Guangdong

Province, China 523811

Model and/or type reference ..........: PT-PSE106GW, PT-PSE106GW-AR, PT-PSE106GWN

Rating(s) ..... Input: AC100-240V 50-60Hz 1.5A

Output: 55V === 1100mA







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Test item particulars	
Equipment mobility:	[] movable [] hand-held []transportable [x] stationary [] for building-in [] direct plug-in
Connection to the mains	[x] pluggable equipment [x] type A [] type B [] permanent connection [x] detachable power supply cord [] non-detachable power supply cord [] not directly connected to the mains
Operating condition:	[x] continuous [] rated operating / resting time:
Access location	[x] operator accessible [] restricted access location
Over voltage category (OVC):	[] considered in end system  [] OVC I [x] OVC II [] OVC III [] OVC IV  [] other: not directly connected to the mains
Mains supply tolerance (%) or absolute mains supply	175740
values:	±10%(requested by client)
Tested for IT power systems	[] Yes (only for Norway) [x] No
IT testing, phase-phase voltage (V):	N/A
Class of equipment:	[x] Class I
Considered current rating of protective device as part	16A
of the building installation (A):	
Pollution degree (PD)	[] PD 1 [x] PD 2 [] PD 3
IP protection class	IPX0
Altitude during operation (m):	<2000
Altitude of test laboratory (m):	<500
Mass of equipment (kg)	Approx.0.446kg
Test case verdicts	X
Test case does not apply to the test object	N(/A)
Test item does meet the requirement:	P(ass)
Test item does not meet the requirement:	F(ail)
Testing WSC7 WSC	TI AVERT AVERT
Date of receipt of test item	November 02, 2015
Date(s) of performance of test	November 02, 2015 to November 17, 2015







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#### **General remarks**

The test results presented in this report only to the object tested.

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The test results presented in this report relate only to the item tested.

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

"(see Annex #)" refers to an annex appended to the report.

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

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

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

#### **List of Attachments:**

Appendix 1: Photo documentation.

Appendix 2: Equipment list.

#### Comments

Brief description of the test sample:

The equipment is a **POWER INJECTOR** for the general use in information technology equipment.

The manufacturer specified maximum ambient temperature as 40°C.

### **Summary of Testing and Conclusions**

The sample(s) tested complies with the requirements of

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







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#### **MODEL DESCRIPTION:**

		Input		Output	Output	
No.	Model No.	W.S.		V 5/7/7	Voltage	Current
		Voltage	Frequency	Current	(Vdc)	(mA)
1	PT- PSE106GW	AC100-240V	50-60Hz	1.5A	55	1100
2	PT-PSE106GW-AR	AC100-240V	50-60Hz	1.5A	55	1100
3	PT-PSE106GWN	AC100-240V	50-60Hz	1.5A	55	1100

- 1. All models in each series have similar construction with the same diagram circuit and PCB layout, but different from model names and management board use.
- 2. Test data for PT- PSE106GW represent all models in this test report, which is conditioned with Max. current, power consumption.
- 3. All tests were conducted on the models of PT- PSE106GW and the test result was passed.

## Copy of marking plate:



POWER INJECTOR Model: PT-PSE106GWN

Input: 100-240VAC 1.5A

50-60Hz

Output: 55VDC/1100mA

Power pins:

4,5(+) 7,8(-) and 3,6(+) 1,2(-) Data speed: 10/100/1000Mbps



#### WARNING:

indoor use only risk of electric shock do not open dry location use only

MADE IN CHINA



## POWER INJECTOR

Model: PT-PSE106GW-AR Input: 100-240VAC 1.5A

50-60Hz

Output: 55VDC/1100mA

Power pins: 4,5(+)7,8(-) 3,6(+)1,2(-) Data speed: 10/100/1000Mbps Protection line: 1,2,3,4,5,6,7,8

Common mode(10/700us): 6KV



## WARNING:

 indoor use only risk of electric shock

do not open

dry location use only

MADE IN CHINA



**POWER INJECTOR** 

Model: PT-PSE106GW Input: 100-240VAC 1.5A

50-60Hz

Output: 55VDC/1100mA

Power pins:

4,5(+) 7,8(-) and 3,6(+) 1,2(-) Data speed: 10/100/1000Mbps



#### WARNING:

 indoor use only risk of electric shock do not open

dry location use only

MADE IN CHINA

Note: There are reference labels. final labels should be including the content of them.









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EN60950-1						
Clause	Requirement – Test	Result – Remark	Verdict			
1	GENERAL	111111	Р			
<u> </u>	X X X					
1.5	Components		Р			
1.5.1	Comply with IEC60950 or relevant component standard	(see appended table 1.5.1).	Р			
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or national standards are used correctly within their	Р			
		ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	$\leq$			
1.5.3	Thermal controls	No thermal controls.	N/A			
1.5.4	Transformers	X	Р			
1.5.5	Interconnecting cables		N/A			
1.5.6	Capacitors bridging insulation	EN60384-14 approved	P			
1.5.7	Resistors bridging insulation		Р			
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Functional insulation only	P			
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A			
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	ATEGO	N/A			
1.5.8	Components in equipment for IT power systems		N/A			
1.5.9	Surge suppressors		Р			
1.5.9.1	General ////////////////////////////////////	AVSET	5 P			
1.5.9.2	Protection of VDRs		Р			
1.5.9.3	Bridging of functional insulation by a VDR		Р			
1.5.9.4	Bridging of basic insulation by a VDR	ATSET	N/A			
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A			
1.6	Power interface	THE PARTY OF THE P	Р			
1.6.1	AC power distribution systems	X	Р			

1.6	Power interface	7	Р
1.6.1	AC power distribution systems	X	Р
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment	Not hand-held equipment	N/A
1.6.4 Certific	Neutral conductor	X	N/A

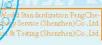








EN60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
1.7	Marking and instructions		Р	
1.7.1	Power rating and identification markings	See below.	Р	
1.7.1.1	Power rating marking		Р	
2.0	Multiple mains supply connections	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
	Rated voltage(s) or voltage range(s) (V):	100-240V	Р	
	Symbol for nature of supply, for d.c. only:	AC source	N/A	
- NE	Rated frequency or frequency range (Hz):	50-60Hz	Р	
	Rated current (A):	1.5A	Р	
1.7.1.2	Identification markings		Р	
70	Manufacturer's name or trade-mark or identification mark:	Trade-mark: PRICET®	Р	
	Model identification or type reference :	PT-PSE106GW	Р	
1112	Symbol of Class II:	11154	N/A	
	Other markings and symbols:	Additional symbols or marking do not give rise to misunderstanding.	P	
1.7.1.3	Use of graphical symbols		Р	
1.7.2	Safety instructions and marking	English provided. (Version in other language will be provided when submitted for national approval)	Р	
1.7.2.1	General	A	Р	
1.7.2.2	Disconnect devices	AC plug serves as disconnect device	Р	
1.7.2.3	Overcurrent protective device		N/A	
1.7.2.4	IT power distribution systems	ATRIAN ATT	N/A	
1.7.2.5	Operator access with a tool		N/A	
1.7.2.6	Ozone	Not such equipment.	N/A	
1.7.3	Short duty cycles	AUST	N/A	
1.7.4	Supply voltage adjustment:	No voltage selector.	N/A	
	Methods and means of adjustment; reference to installation instructions:	A	N/A	
1.7.5	Power outlets on the equipment:	No power outlets provided.	N/A	
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	Marking provided on PCB: F1 T3.15AL 250V	Р	
1.7.7	Wiring terminals	A FEET	N/A	
1.7.7.1 ertific	Protective earthing and bonding terminals		N/A	
1.7.7.2	Terminal for a.c. mains supply conductors		N/A	









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	EN60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
1.7.7.3	Terminals for d.c. mains supply conductors	1277	N/A		
1.7.8	Controls and indicators	X	N/A		
1.7.8.1	Identification, location and marking:		N/A		
1.7.8.2	Colours:	- TIP19	N/A		
1.7.8.3	Symbols according to IEC 60417:	X	N/A		
1.7.8.4	Markings using figures:		N/A		
1.7.9	Isolation of multiple power sources:	1771	N/A		
1.7.10	Thermostats and other regulation devices	Such devices not used.	N/A		
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no	9 5 7		
		damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	$\leq$		
1.7.12	Removable parts	Not provided on removable parts.	N/A		
1.7.13	Replaceable batteries	X	N/A		
- Au	Language(s)				
1.7.14	Equipment for restricted access locations.	Not intended for use in restricted access locations.	N/A		

2	PROTECTION FROM HAZARDS	AVSTI	5 P
2.1	Protection from electric shock and energy hazards		Р
2.1.1	Protection in operator access areas	No access with test finger and test pin to any parts with only basic insulation to ELV or hazardous voltage.	P
2.1.1.1	Access to energized parts	Connot touch live part or basic insulaiton	Р
798	Test by inspection	ALIPSON AND	Р
	Test with test finger (Figure 2A)	X	Р
	Test with test pin (Figure 2B)		Р
17	Test with test probe (Figure 2C)	T.E.A.	N/A
2.1.1.2 ertific	Battery compartments:	No battery compartments.	N/A







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EN60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (V); distance (mm) trough insulation		_
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N/A
2.1.1.5	Energy hazards	The energy does not exceed 240VA between any two points in accessible connector of	Р
		secondary circuit. (see appended table 2.1.1.5.)	/
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment	AVERTA AV	Р
	Measured voltage (V); time-constant (s)	After 1s voltage:2V; Limit: 368Vp×37%=136.16V	-
2.1.1.8	Energy hazards – d.c. mains supply	AUSTE N	N/A
/	a) Capacitor connected to the d.c. mains supply .:		N/A
	b) Internal battery connected to the d.c. mains supply		N/A
2.1.1.9	Audio amplifiers	Not such equipment.	N/A
2.1.2	Protection in service access areas	No operator accessible area that needs to be accessed by the use of a tool.	N/A
2.1.3	Protection in restricted access locations	Not intended for use in restricted access locations.	N/A
2.2	SELV circuits	ATHARA AT	Р
2.2.1	General requirements		Р

2.2	SELV circuits	ATHER AT	Р
2.2.1	General requirements		Р
2.2.2	Voltages under normal conditions (V)	Within SELV limits	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits	P
2.2.4	Connection of SELV circuits to other circuits:	Connect to SELV circuits only	Р

2.3	TNV circuits	AVSET	5 P
2.3.1	Limits		Р
/	Type of TNV circuits	TNV-1	
2.3.2	Separation from other circuits and from accessible	AVERA	Р
21265	parts		
2,3.2.1	General requirements	X	Р
2.3.2.2	Protection by basic insulation	harres ha	Р





EN60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
2.3.2.3	Protection by earthing	1777	N/A	
2.3.2.4	Protection by other construction	X	N/A	
2.3.3	Separation from hazardous voltages		Р	
**	Insulation employed:	RI	ATT T	
2.3.4	Connection of TNV circuits to other circuits	TNV-1 to SELV	Р	
4	Insulation employed	BI	,	
2.3.5	Test for operating voltages generated externally	11.574	N/A	

2.4	Limited current circuits		Р
2.4.1	General requirements	ATHER AT	Р
2.4.2	Limit values	29.61mA	Р
	Frequency (Hz):	42.3k	
Alk	Measured current (mA)	0.51	
	Measured voltage (V)	1.02	<del></del>
	Measured circuit capacitance (μF)	2200pF	
2.4.3	Connection of limited current circuits to other circuits	AUSTI AU	N/A

2.5	Limited power sources		Р
1772	a) Inherently limited output	AUST	N/A
1	b) Impedance limited output		N/A
-	c) Regulating network or IC current limiter, limitsoutput under normal operating and single faultcondition	A regulating network limits the output in compliance with table 2B both under normal operating conditions and after any single fault.	P 7.9.4
-	Use of integrated circuit (IC) current limiters		N/A
- Aut	d) Overcurrent protective device limited output		N/A
	Max. Output voltage (V), Max. output current (A), Max. apparent power (VA):	(see appended table 2.5)	X
67	Current rating of overcurrent protective device (A)	WSGT W	N/A

2.6	Provisions for earthing and bonding		Р
2.6.1	Protective earthing	ATTEN	Р
2.6.2 Certific	Functional earthing		N/A
	Use of symbol for functional earthing		N/A







	EN60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.6.3	Protective earthing and protective bonding conductors	A 11111	Р
2.6.3.1	General	X	Р
2.6.3.2	Size of protective earthing conductors	Approved AC inlet used	N/A
20	Rated current (A), cross-sectional area (mm²), AWG		SLI L
2.6.3.3	Size of protective bonding conductors		Р
ATT	Rated current (A), cross-sectional area (mm²), AWG:	Comply with 2.6.3.4	/
	Protective current rating (A), cross-sectional area (mm²), AWG		×-
2.6.3.4	Resistance of earthing conductors and their terminations; resistance $(\Omega)$ , voltage drop $(V)$ , test current $(A)$ , duration $(min)$	0.015Ω, 0.48V, 32A, 2min Limit: 0.1Ω, 2.5V	Р
2.6.3.5	Colour of insulation:	Green-and-yellow	Р
2.6.4	Terminals		P
2.6.4.1	General	X	Р
2.6.4.1	Protective earthing and bonding terminals	Approved AC inlet used	Р
	Rated current (A), type and nominal thread diameter (mm):	ATHE	14.4
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		Р
2.6.5	Integrity of protective earthing		Р
2.6.5.1	Interconnection of equipment	X	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	1194	P
2.6.5.3	Disconnection of protective earth	Approved AC inlet used	Р
2.6.5.4	Parts that can be removed by an operator		Р
2.6.5.5	Parts removed during servicing	AUSTON	N/A
2.6.5.6	Corrosion resistance		Р
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	WSG	N/A

2.7	Overcurrent and earth fault protection in primary circuits		Р
2.7.1	Basic requirements	Fuse "F1" integrated in the	Р
Certific	016	equipment	
Control of the contro	Instructions when protection relies on building installation		N/A







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EN60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.7.2	Faulta not aimulated in F.2.7	477273	N/A
2.1.2	Faults not simulated in 5.3.7		IV/A
2.7.3	Short-circuit backup protection	By building installation	Р
2.7.4	Number and location of protective devices:	One current fuse on line	Р
	A175737A A775737A	conductor	517 N.
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel:	X	N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks	N/A
2.8.2	Protection requirements	Anna An	N/A
2.8.3	Inadvertent reactivation	7 1111	N/A
2.8.4	Fail-safe operation	X	N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts	A STATE OF THE PARTY OF THE PAR	N/A
2.8.6	Overriding	X	N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	A 1014	777
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test	AUSTR	N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators	X	N/A

2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	X	Р
2.9.2	Humidity conditioning	48h	Р
	Relative humidity (%), temperature (°C)	95%, 30°C	-
2.9.3	Grade of insulation	Basic, supplementary,functional, double andreinforced insulation	Р
2.9.4	Separation from hazardous voltages	AWSET AW	Р
	Method(s) used	Method 1 and Method 3	

2.10	Clearances, creepage distances and distances through insulation		P
2.10.1 Certific	General		Р
2.10.1.1	Frequency	Considered	Р









EN60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.10.1.2	Pollution degrees	2	Р
2.10.1.3	Reduced values for functional insualtion	X	Р
2.10.1.4	Intervening unconnected conductive parts N		Р
2.10.1.5	Insulation with varying dimensions N	- THE TOTAL STATE OF THE STATE	N/A
2.10.1.6	Special separation requirements	X	N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage	ATT TO THE PARTY OF THE PARTY O	Р
2.10.2.1	General		Р
2.10.2.2	RMS working voltage	(see appended table 2.10.2)	Р
2.10.2.3	Peak working voltage	(see appended table 2.10.2)	9 P
2.10.3	Clearances		Р
2.10.3.1	General		Р
2.10.3.2	Mains transient voltages	A 11514 A	Р
	a) AC mains supply:	2500Vpeak	P
	b) Earthed d.c. mains supplies:		N/A
77	c) Unearthed d.c. mains supplies:	AVISTO	N/A
	d) Battery operation:		N/A
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3and 2.10.4)	Р
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses	X	N/A
2.10.3.6	Transients from a.c. mains supply:		N/A
2.10.3.7	Transients from d.c. mains supply:	ALKER ALL	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	X	N/A
2.10.3.9	Measurement of transient voltage levels	AFRIA	N/A
	a) Transients from a mains suplply		N/A
	For an a.c. mains supply:		N/A
67 \_	For a d.c. mains supply	AVSET	N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances		Р
2.10.4.1	General	ATHI	Р
2.10.4.2 rtific	Material group and caomparative tracking index		Р
	CTI tests	Material group IIIa/IIIb is assumed to be used	$\leq$

A Standardization PengChey Service (Shenzhen)Co.,Ltd. & Testing (Shenzhen)Co.,Ltd.







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Clause	Requirement – Test	Result – Remark	Verdict
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3and 2.10.4)	Р
2.10.5	Solid insulation	(see appended table 2.10.3and 2.10.4)	P
2.10.5.1	General		Р
2.10.5.2	Distance through insulation	(see appended table 2.10.5)	Р
2.10.5.3	Insulation compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		Р
2.10.5.5	Cemented joints	X	N/A
2.10.5.6	Thin sheet material – General	Insulation tape	Р
2.10.5.7	Separable thin sheet material	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Р
	Number of layers (pcs):	2 layers tape	
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure	THE STATE OF THE S	Р
	Electric strength test	(see appended table 5.2)	X
2.10.5.10	Thin sheet material – alternative test procedure		N/A
71	Electric strength test	ALEITA AL	777
2.10.5.11	Insulation in wound components	Triple insulated wire used as secondary winding of	Р
	TET AVISET AVISE	transformer T1.	
2.10.5.12	Wire in wound components		Р
	Working voltage	(see appended table 2.10.2)	Р
3	a) Basic insulation not under stress:	AUGUS AU	N/A
	b) Basic, supplemetary, reinforced insulation:		N/A
	c) Compliance with Annex U:	Approved TIW wire used,comply with Annex U, three layers	Р
1	Two wires in contact inside wound component; angle between 45° and 90°	1399	P
2.10.5.13	Wire with solvent-based enamel in wound components	No such construction.	N/A
77	Electric strength test	AVIST	947
	Routine test		N/A
2.10.5.14	Additional insulation in wound components	No such construction.	N/A
Ken	Working voltage	The state of the s	N/A
Cartific	Basic insulation not under stress:	1	N/A
/ BOT	- Supplemetary, reinforced insulation:	X	N/A
2.10.6	Construction of printed boards	freeze for	Р

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.6.1	Uncoated printed board		Р
2.10.6.2	Coated printed boards	X	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	ATELIA AT	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	$\times$	N/A
100	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations	X	N/A
2.10.8	Test on coated printed boards and coated components	from the	N/A
2.10.8.1	Sample preparation and preliminary inspection	1000	N/A
2.10.8.2	Thermal conditioning	X	N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test	TO SERVICE STATE OF THE PARTY O	N/A
2.10.9	Thermal cycling	X	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	AVE TO	N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

	3	WIRING, CONNECTIONS AND SUPPLY		P
?	3.1	General		P
5	3.1.1	Current rating and overcurrent protection	AVS ST	P
	3.1.2	Protection against mechanical damage	Wires do not touch sharp edges which could damage the insulation and cause hazard.	Р
	3.1.3	Securing of internal wiring	Securing well	P
	3.1.4	Insulation of conductors		Р
1	3.1.5	Beads and ceramic insulators	Not used.	N/A
5	3.1.6	Screws for electrical contact pressure	No such screws provided.	N/A
	3.1.7	Non-metallic materials in electrical connections		N/A
	3.1.8	Self-tapping and spaced thread screws	Not used.	N/A
	3.1.9	Termination of conductors	ATTEN A	Р
	Certifica	10 N pull test		
>	3.1.10	Sleeving on wiring		N/A







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Clause	Requirement – Test	Result – Remark	Verdict
3.2	Connection to a mains supplies	47777	Р
3.2.1	Means of connection	AC inlet	P
3.2.1.1	Connection to an a.c. mains supply	Ditto	Р
3.2.1.2	Connection to an d.c. mains supply	Only a.c. mains supply.	N/A
3.2.2	Multiple supply connections	Only for one mains connection.	N/A
3.2.3	Permanently connected equipment	Unit is not a permanently connected equipment.	N/A
	Number of conductors, diameter of cable and conduits (mm):	$\times$	X
3.2.4	Appliance inlets	Comply with IEC/EN60320	P
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords	X	N/A
Aug.	Туре		/
1	Rated current (A), cross-sectional area (mm²), AWG	1000	
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief	AVISTO	N/A
	Mass of equipment (kg), pull (N)		
/	Longitudinal displacement (mm):		
3.2.7	Protection against mechanical damage	WSET	N/A
3.2.8	Cord guards		N/A
	Diameter or minor dimension D (mm); test mass (g) :		<u> </u>
97	Radius of curvature of cord (mm)	ATRIA AT	5747
3.2.9	Supply wiring space		N/A

3.3	Wiring terminals for connection of external conduc	tors	N/A
3.3.1	Wiring terminals	No such terminals	N/A
3.3.2	Connection of non-detachable power supply cords	X	N/A
3.3.3	Screw terminals	Annual An	N/A
3.3.4	Conductor sizes to be connected		N/A
)	Rated current (A), cord/cable type, cross-sectional area (mm²)		
3.3.5	Wiring terminal sizes	ATERIA	N/A
Certific	Rated current (A), type and nominal thread diameter (mm)	X	X







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Clause	Requirement – Test	Result – Remark	Verdict
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals	X	N/A
3.3.8	Stranded wire	f	N/A

3.4	Disconnection from the a.c. mains supply		Р
3.4.1	General requirement		Р
3.4.2	Disconnect devices	AC inlet	P
3.4.3	Permanently connected equipment	Not permanently connected equipment.	N/A
3.4.4	Parts which remain energized	ATTENDED ATT	N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment	Both poles disconnected simultaneously	Р
3.4.7	Number of poles - three-phase equipment	A. 151	N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment	AVISATI	N/A
3.4.11	Multiple power sources		N/A

3.5	Interconnection of equipment	AVSET	P
3.5.1	General requirements		P
3.5.2	Types of interconnection circuits		Р
3.5.3	ELV circuits as interconnection circuits	No ELV circuits	N/A
3.5.4	Data ports for additional equipment	Network port used as data	Р
	X X	Transmittion	

4	PHYSICAL REQUIREMENTS	Р
4.1	Stability	N/A
	Angle of 10°	N/A
7	Test: force (N)	N/A

	4.2	Mechanical strength		Р
	4.2.1	General	T.FIT	Р
>	Certific	Rack-mounted equipment.	X	N/A
	4.2.2	Steady force test, 10 N		Р







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Clause	Requirement – Test	Result – Remark	Verdict
4.2.3	Steady force test, 30 N	1777	N/A
4.2.4	Steady force test, 250 N	X	Р
4.2.5	Impact test		Р
7.0	Fall test	/ IF14 - 111	Р
	Swing test	X	N/A
4.2.6	Drop test; height (mm)		N/A
4.2.7	Stress relief test	97.7°C, 7h	Р
4.2.8	Cathode ray tubes	X	N/A
	Picture tube separately certified :		N/A
4.2.9	High pressure lamps	ATTENDED ATT	N/A
4.2.10	Wall or ceiling mounted equipment; force (N) :	50N	Р
4.2.11	Rotating solid media		N/A
_AllE	Test to cover on the door:	1.757	N/A

4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Р
4.3.2	Handles and manual controls; force (N) :	No handles or controls provided.	N/A
4.3.3	Adjustable controls	No such controls provided.	N/A
4.3.4	Securing of parts	Securing well	Р
4.3.5	Connection of plugs and sockets	X	N/A
4.3.6	Direct plug-in equipment	A-3-3-4	N/A
_	Torque (Nm) :		-
	Compliance with the relevant mains plug standard	X	N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries	100	N/A
	- Overcharging of a rechargeable battery	X	N/A
	- Unintentional charging of a non- rechargeable battery		N/A
-	- Reverse charging of a rechargeable battery	ALL THE STATE OF T	N/A
	- Excessive discharge rate for any battery	X	N/A
4.3.9	Oil and grease		N/A
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N/A
4.3.11	Containers for liquids or gases	No container for liquid or gas.	N/A







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Clause	Requirement – Test	Result – Remark	Verdict
4.3.12	Flammable liquids :	No such flammable liquid.	N/A
	Quantity of liquid (I) :	X	N/A
	Flash point (°C) :		N/A
4.3.13	Radiation :		Р
4.3.13.1	General	LED radiation only	Р
4.3.13.2	Ionizing radiation	No ionizing radiation.	N/A
ALE	Measured radiation (pA/kg)	1.77	-/
	Measured high – voltage (kv)	X	X
	Measured focus voltage (kv)		
7.6	CRT markings	ATHER AT	34-47
4.3.13.3	Effective of ultraviolet (UV) radiation on materials		N/A
100	Part, property, retention after test, flammability classification	199	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation		N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	LED as indication only	Р
4.3.13.5.1	Lasers (including laser diodes)	1939	N/A
	Laser class		\
4.3.13.5.2	Light emitting diodes (LEDs)	X	Р
4.3.13.6	Other types	A TOTAL	N/A

4.4	Protection against hazardous moving parts	No moving parts	N/A
4.4.1	General	A-13-2	N/A
4.4.2	Protection in operator access areas		N/A
7	Household and home/office document/media shredders	(see Annex EE)	N/A
4.4.3	Protection in restricted access locations	ATHE	N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades		N/A
4.4.5.1	General ////////////////////////////////////	AHSET	N/A
	Not considered to cause pain or injury. a):		N/A
/	Is considered to cause pain, not injury. b):		N/A
400	Considered to cause injury. c):	ATTEN A	N/A
4.4.5.2 ertific	Protection for users		N/A
100	Use of symbol or warning:	X	N/A







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Clause	Requirement – Test	Result – Remark	Verdict
4.4.5.3	Protection for service persons	7777	N/A
	Use of symbol or warning:	X	N/A

2	4.5	Thermal requirements	ALPINA AL	Р
	4.5.1	General	X	Р
	4.5.2	Temperature tests		Р
	ATE	Normal load condition per Annex L	1531	
>	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
1	4.5.5	Resistance to abnormal heat	( see appended table 4.5.5)	56 P

X X X	X	
Openings in enclosures		P
Top and side openings	No openings	Р
Dimensions (mm) :		\ <u>-</u>
Bottoms of fire enclosures	No openings	Р
Construction of the bottom , dimensions (mm):	ATHER AT	77-1
Doors or covers in fire enclosures		N/A
Openings in transportable equipment		N/A
Constructional design measures	Alisa	N/A
Dimensions (mm)		N/A
Evaluation measures for larger openings		N/A
Use of metallized parts	AUSTA AU	N/A
Adhesives for constructional purposes		N/A
Conditioning temperature/time:		
	Top and side openings  Dimensions (mm):  Bottoms of fire enclosures  Construction of the bottom, dimensions (mm):  Doors or covers in fire enclosures  Openings in transportable equipment  Constructional design measures  Dimensions (mm)  Evaluation measures for larger openings  Use of metallized parts  Adhesives for constructional purposes	Top and side openings  Dimensions (mm):  Bottoms of fire enclosures  Construction of the bottom, dimensions (mm):  Doors or covers in fire enclosures  Openings in transportable equipment  Constructional design measures  Dimensions (mm)  Evaluation measures for larger openings  Use of metallized parts  Adhesives for constructional purposes

4.7	Resistance to fire		
4.7.1	Reducing the risk of ignition and spread of flame		Р
4 A	Method 1, selection and application of components wiring and materials	See appended table 4.7	Ρ
	Method 2, application of all of simulated fault condition tests	X	N/A
4.7.2	Conditions for a fire enclosure	AYST	Р
4.7.2.1 ertific	Parts requiring a fire enclosure		Р
4.7.2.2	Parts not requiring a fire enclosure		N/A







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Clause	Requirement – Test	Result – Remark	Verdict	
4.7.3	Materials	1777	Р	
4.7.3.1	General	PCB: V-0	P	
4.7.3.2	Materials for fire enclosures	enclosure:V-0	Р	
4.7.3.3	Materials for components and other parts outside fire enclosures	11717	N/A	
4.7.3.4	Materials for components and other parts inside fire enclosures	Min:V-2	Р	
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N/A	
4.7.3.6	Materials used in high-voltage components	No high-voltage components provided.	N/A	

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Р
5.1	Touch current and protective conductor current		Р
5.1.1	General	AVIST	P
5.1.2	Configuration of equipment under test (EUT)		P
5.1.2.1	Single connection to an a.c. mains supply		Р
5.1.2.2	Redundant multiple connections to an a.c. mains supply	ATTEN	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit	ATHI	P
5.1.4	Application of measuring instrument	See Annex D	P
5.1.5	Test procedure		Р
5.1.6	Test measurements	ATTATAL ATT	5 P
	Supply voltage (V)	264V, 60Hz	
	Measured touch current (mA)	(see appended table 5.1)	
AIZ	Max. allowed touch current (mA)	0.25	/
	Measured protective conductor current (mA)		<del></del>
	Max. allowed protective conductor current (mA)		<u> </u>
5.1.7	Equipment with touch current exceeding 3.5 mA	AWSTT	N/A
5.1.7.1	General:		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from	ATE OF THE PARTY O	Р
Certific	telecommunication networks	\ \ \	



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Clause	Requirement – Test	Result – Remark	Verdict	
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		Р	
	Test voltage (V)	264V, 60Hz	-	
7.1	Measured current (mA)	(see appended table 5.1)	5 L 1-	
	Max. allowed current (mA)	0.25	1	
5.1.8.2	Summation of touch currents from telecommunication networks		N/A	
/	a) EUT with earthed telecommunication ports:		N/A	
	b) EUT whose telecommunication ports have no reference to protective earth		N/A	

5.2	Electric strength			Р
5.2.1	General			Р
5.2.2	Test procedure	1757	1155	Р

5.3	Abnormal operating and fault conditions	X	Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р
5.3.2	Motors		N/A
5.3.3	Transformers	X	Р
5.3.4	Functional insulation	Method c	Р
5.3.5	Electromechanical components		N/A
5.3.6	Audio amplifiers in ITE	X	N/A
5.3.7	Simulation of faults	See appended table 5.3.	Р
5.3.8	Unattended equipment	No such equipment.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	Р
5.3.9.1	During the tests	No hazards	Р
5.3.9.2	After the tests	No fire, no danger	Р

	6	CONNECTION TO TELECOMMUNICATION NETWORKS		
	6.1	Protection of telecommunication network service personnel, and users of other equipment connected to the network, from hazards in the equipment		
	6.1.1	Protection from hazardous voltages		
V	6.1.2 Certific	Separation of the telecommunication network from earth	N/A	
	6.1.2.1	Requirements	N/A	





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Clause	Requirement – Test	Result – Remark	Verdict
2777	777		-
/	Supply voltage (V):		7
	Current in the test circuit (mA):	X	Χ
6.1.2.2	Exclusions:	August Aug	N/A

6.2	Protection of equipment users from overvoltages on telecommunication networks		Р
6.2.1	Separation requirements	c)	Р
6.2.2	Electric strength test procedure	THE PARTY OF THE P	Р
6.2.2.1	Impulse test	1.5 kV impulse	Р
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria	177790	Р

6.3	Protection of telecommunication wiring system from overheating		
All	Max. output current (A)	1.19A	/
	Current limiting method	Inherent impedance	\ <u>-</u>

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	AVSTT	N/A
7.1	General	Not connect to cable distribution system.	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	ATE OF THE PARTY O	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.4	Insulation between primary circuits and cable distribution systems		N/A
7.4.1	General		N/A
7.4.2	Voltage surge test	AUSTIN	N/A
7.4.3	Impulse test		N/A

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		
	UL listed material used.		
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	THE STATE OF THE S	N/A
A.1.1 Certific	Samples		<u></u>
	Wall thickness (mm):		<u> </u>







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Clause	Requirement – Test	Result – Remark	Verdict
A.1.2	Conditioning of samples; temperature (°C):	177	-
A.1.3	Mounting of samples	X	X-
A.1.4	Test flame		N/A
7.0	Flame A, B, C or D	ATHUR ALL	747
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
/ 17	Sample 1 burning time (s):	7.774	-/
	Sample 2 burning time (s):		X
	Sample 3 burning time (s):		
A.2	Flammability test for fire enclosures of movable equipmexceeding 18 kg, and for material and components local 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		- /
100	Wall thickness (mm):		
A.2.2	Conditioning of samples; temperature (°C):	X	N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame (see IEC 60695-11-4)	AVSTIL AV	N/A
A.2.5	Flame A, B or C		N/A
A.2.6	Compliance criteria		N/A
172	Sample 1 burning time (s)	ATHER	- 1
/	Sample 2 burning time (s)		1
	Sample 3 burning time (s):		X
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	AVSET AV	N/A
	Sample 1 burning time (s):		
,	Sample 2 burning time (s):	X	
100	Sample 3 burning time (s):	A CHILD	- /
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criteria	America An	N/A

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		
B.1	General requirements		N/A
110	Position	1811	
Certific	Manufacturer	X	X
	Туре		







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Clause	Requirement – Test	Result – Remark	Verdict
112	Rated values	ATT A	-
B.2	Test conditions	X	N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test	THE TOTAL PORT OF THE PARTY OF	N/A
B.5	Locked-rotor overload test	X	N/A
	Test duration (days)		
A TE	Electric strength test: test voltage (V):	1.53	-/
B.6	Running overload test for DC motors in secondary circuits	$\times$	N/A
B.6.1	General	Arrasa Arra	N/A
B.6.2	Test procedure	7.11	N/A
B.6.3	Alternative test procedure		N/A
B.6.4	Electric strength test; test voltage (V)		N/A
B.7	Locked-rotor overload test for DC motors in secondary circuits	100	N/A
B.7.1	General		N/A
B.7.2	Test procedure	V	N/A
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V)	Arrowsk for	N/A
B.8	Test for motors with capacitors	A COLOR	N/A
B.9	Test for three-phase motors	X	N/A
B.10	Test for series motors		N/A
1	Operating voltage (V)	Z.FR.	

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Р
34	Position	T1	78.4
	Manufacturer	See table 1.5.1	
	Туре:	See table 1.5.1	
All	Rated values	See table 1.5.1	-/
	Method of protection:	By protection circuit	<u> </u>
C.1	Overload test		Р
C.2	Insulation	(see appended tables 5.2 and C2)	Р
	Protection of displacement of windings :	By bobbin and insulation tape	Р

D ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		
D.10	Measuring instrument	Р
D.2	Alternative measuring instrument	N/A





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Clause	Requirement – Test	Result – Remark	Verdict
-	NIST AVISTO	AVST	
É	ANNEX E, TEMPERATURE RISE OF A WINDING (s	see 1.4.13)	N/A
FAL	ANNEX F, MEASUREMENT OF CLEARANCES AND 2.10 and Annex G)	D CREEPAGE DISTANCES (see	P
	X		
G	ANNEX G, ALTERNATIVE METHOD FOR DETERM	INING MINIMUM CLEARANCES	N/A
G.1	Clearances	THE STATE OF THE S	N/A
G.1.1	General	X	N/A
G.1.2	Summary of the procedure for determining minimum clearances	NUSTER AND	N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply:		N/A
G.2.2	Earthed d.c. mains supplies	AUST	N/A
G.2.3	Unearthed d.c. mains supplies:		N/A
G.2.4	Battery operation:		N/A
G.3	Determination of telecommunication network transient voltage (V)	t Wister W	N/A
G.4	Determination of required withstand voltage (V):	( X	N/A
G.4.1	Mains transients and internal repetitive peaks:		N/A
G.4.2	Transients from telecommunication networks:	T.FIT	N/A
G.4.3	Combination of transients	X	N/A
G.4.4	Transients from cable distribution systems		N/A
G.5	Measurement of transient levels (V)	Z1274 Z	N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
_Aii	For a d.c. mains supply	A THINK	N/A
	b) Transients from a telecommunication network		N/A
G.6	Determination of minimum clearances		N/A
794	AVS 57 AVS 57	AVISTA	997
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTEN	ITIALS (see 2.6.5.6)	N/A
Cert	Metal(s) used:		· /

18	1			NIZA
K	ANNE	X K, THERMAL CONTROLS (see	1 5 3 and 5 3 7)	N/A
0		A II, ITILIMIAL OCITINOLO (SCC	1.5.5 and 5.5.7	TO THE STATE OF TH
10				





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Clause	Requirement – Test	Result – Remark	Verdict
K.1	Making and breaking capacity	1777	N/A
K.2	Thermostat reliability; operating voltage (V) :	X	N/A
K.3	Thermostat endurance test; operating voltage (V):		N/A
K.4	Temperature limiter endurance; operating voltage (V)	7 IF17 1	N/A
K.5	Thermal cut-out reliability	X	N/A
K.6	Stability of operation		N/A

Č.	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)				
L.1	Typewriters				
L.2	Adding machines and cash registers		N/A		
L.3	Erasers				
L.4	Pencil sharpeners	150	N/A		
L.5	Duplicators and copy machines		N/A		
L.6	Motor-operated files	X	N/A		
L.7	Other business equipment	A CONTRACTOR OF THE PARTY OF TH	Р		

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING SI	GNALS (see 2.3.1)	N/A
M.1	Introduction	A	N/A
M.2	Method A		N/A
M.3	Method B	X	N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz)	7 × × × × ×	7945
M.3.1.2	Voltage (V)	X	
M.3.1.3	Cadence; time (s), voltage (V):		)
M.3.1.4	Single fault current (mA):	T. FIFT	_
M.3.2	Tripping device and monitoring voltage:	X	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	WSG No	N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V):		N/A

	N Certific	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.3.2, 7.4.3 and Clause G.5)	7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1,	Р
-	NO	ITU-T impulse test generators		Р



## W55/27 WORLD STANDARDIZATION CERTIFICATION & TESTING





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Clause	Requirement – Test	Result – Remark	Verdic
N.2	IEC 60065 impulse test generator		N/A
	X	X	X
P	ANNEX P, NORMATIVE REFERENCES		-
A WAY	A PARTY AND A PART	TIPIN TO	3L1 :
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see	e 1.5.9.1)	Р
	a) Preferred climatic categories:	-40°C to 85°C	Р
	b) Maximum continuous voltage:	300Vmin	Р
/	c) Pulse current:	considered	P
	Body of the VDRTest according to IEC60695-11-5 :		Р
7.0	Body of the VDR.Flammability class of material ( min V-1):	ATTE OF AND	Р
	X X X	X	
R A	ANNEX R, EXAMPLES OF REQUIREMENTS FOR Q PROGRAMMES	UALITY CONTROL	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	X	N/A
R.2	Reduced clearances (see 2.10.3)	AVE TO	N/A
1			
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (s	see 6.2.2.3)	N/A
S.1	Test equipment	A CORPORATION OF THE PARTY OF T	N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing	X	N/A
-	477	Angel Angel	-
7	ANNEX T, GUIDANCE ON PROTECTION AGAINST	INGRESS OF WATER (see 1.1.2)	N/A
	$\times$ $\times$ $\times$	X	
U	ANNEX U, INSULATED WINDING WIRES FOR USE INSULATION (see 2.10.5.4)	WITHOUT INTERLEAVED	Р
	X 2	VDE approved triple insulated wire used.	X-
	ATTERNATION ATTERNATION	AUGET A	1942
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (s	ee 1.6.1)	Р
V.1	Introduction	X	Р
V.2	TN power distribution systems		Р

Wind	ANNEX W, SUMMATION OF TOUCH CURRENTS	N/A
W/1	Touch current from electronic circuits	N/A





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Clause	Requirement – Test	Result – Remark	Verdict		
W.1.1	Floating circuits	1777	N/A		
W.1.2	Earthed circuits	X	N/A		
W.2	Interconnection of several equipments		N/A		
W.2.1	Isolation	ATHUR ALL	N/A		
W.2.2	Common return, isolated from earth	X	N/A		
W.2.3	Common return, connected to protective earth		N/A		
10	STATE AND	11514	-/		
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSF	FORMER TESTS (see clause C.1)	P		
X.1	Determination of maximum input current		P		
X.2	Overload test procedure	AVESTEE	Р		
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TI will not be exposed to ultraviolet light.	EST (see 4.3.13.3) Equipment	N/A		
Y.1	Test apparatus		N/A		
Y.2	Mounting of test samples	X .	N/A		
Y.3	Carbon-arc light-exposure apparatus:	for the second	N/A		
Y.4	Xenon-arc light exposure apparatus:	1000	N/A		
	$\times$ $\times$ $\times$	X			
z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10	.3.2 and Clause G.2)	Р		
- A	ANNEY AA MANDREI TEGT (aas 0.40 5.0)		NVA		
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	X	N/A		
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION		7		
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION	ALE THE STATE OF T			
СС	ANNEX CC, Evaluation of integrated circuit (IC) cur	rent limiters	N/A		
CC.1	General		N/A		
CC.2	Test program 1		N/A		
CC.3	Test program 2	X	N/A		
CC.4	Test program 3		N/A		
CC.5	Compliance:	1000	N/A		
DD	ANNEX DD, Requirements for the mounting means	of rack-mounted equipment	N/A		
DD.1	General	1737	N/A		
DD.2 Certif	Mechanical strength test, variable N:		N/A		
DES	Managinal strangth took OFON, including and	X	NI/A		

Mechanical strength test, 250N, including end

N/A







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Clause	Requirement – Test	Result – Remark	Verdict
DD.4	Compliance:		N/A

	DD.4	Compliand	e					N/A
>		A NIN/EN/ E	X		er - I-	X		N/4
	EE	ANNEX E	E, Househol	id and home/d	office document/r	nedia shredo	iers	N/A
	EN C0050 4	-200C/A44-4	0000/A44-0000/A4-0040/A40-0044/A0-0042 OFNELEO COMMON MODIFICATIONS					THE
	EN 60950-1	:2006/A11:	2006/A11:2009/A1:2010/A12:2011/A2:2013- CENELEC COMMON MODIFICATIONS					
	NI P			otes, tables an e prefixed "Z"	d figures which are	e additional to	those inIEC60950-1	P
	Contents	Add the fol	lowing annex	xes:				P
)		Annex ZA (	(normative)	Normative re	eferences to intern	ationalpublica	ations with their	X
e	(A2:2013)	Au Au	1933		g Europeanpublic			723
- 1	(, 12.20.10)	Annex ZB	(normative)	Special nation	onal conditions			
			,		NELEC code desig	anations forfle	exible cords	
	0		`					D 4
	General	the following	ر آن آسکان	notes in the re	terence document	(IEC 60950-	1:2005)according to	Р
١			Note 2	4.5.4	Note 2.9.2	4574	Note	V
/		1.4.8		1.5.1	Note 2 & 3	1.5.7.1	Note	
9	97	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	947
		2.2.3	Note	2.2.4	Note	2.3.2	Note	
	/	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	
	No.	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	1
	/	3.2.1.1	Note	3.2.4	Note 3.	2.5.1	Note 2	
$\rangle$	<	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	$\times$
		4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	
	14.0	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	744
		6.2.2	Note	6. 2.2.1	Note 2	6.2.2.2	Note	
		7.1	Note 3	7.2	Note	7.3	Note 1 & 2	
	ATT	G.2.1	Note 2	Annex H	Note 2		ATESTA	
	General	Delete all t	he "country"	notes in the re	ference document	(IEC 60950-1	:2005/A1:2010)	Р
Ì	(A1:2010)	according t	to the following	ng list:				$\times$
Z-	13	1.5.7.1		Note	6.1.2.1	1000	Note 2	900
		6.2.2.1		Note 2	EE.3		Note	
	General				ference document	(IEC 60950-	1:2005/A2:2013)	Р
	(A2:2013)	according t	to the following	ng list:				
	certific	2.7.1 6.2.2.	Note *	2.10.3.1	Note 2			X
	18/	0.2	NOIC	1				









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Clause	Requirement – Test	Result – Remark	Verdict		
111	*Note of secretary: Text of Common Modification remains unchanged.				
1.1.1	Replace the text of NOTE 3 by the following.	X	Р		
(A1:2010)	NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimediaequipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For television sets EN60065 applies.				
1.3.Z1	Add the following subclause:		N/A		
1	1.3.Z1 Exposure to excessive sound pressureThe	1100			
	apparatus shall be so designed and constructed as to	× ,	X		
	present no danger when usedfor its intended purpose,				
7	either in normaloperating conditions or under fault	ANSTON	SETA		
	conditions, particularly providing protection against exposureto excessive sound pressures from				
/	headphonesor earphones.				
10	NOTE Z1 A new method of measurement is	AUST			
	describedin EN 50332-1, Sound system				
	equipment:Headphones and earphones associated	× .	X		
	with portableaudio equipment - Maximum sound	francisco fra	773		
	pressure levelmeasurement methodology and limit	1000	-14 43		
	considerations –				
	Part 1: General method for "one package				
	equipment",and in EN 50332-2, Sound system	AVISTA	_/		
	equipment:Headphones and earphones associated				
	with portableaudio equipment - Maximum sound		$\wedge$		
	pressure levelmeasurement methodology and limit considerations –	WSGT	500		
	Part 2: Guidelines to associate sets with				
,	headphonescoming from different manufacturers.	× ×			
(A12:2011)	Anna Anna	ATTA	N/A		
(**************************************	Delete the addition of 1.3.Z1 / EN 60950-1:2006				
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006	X	X		
	/A12:2010	1000	77		
1.5.1	Add the following NOTE:		N/A		
1.0.1			13//		
100	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU:	A COURT	,		
Certifi	see Directive 2002/95/EC	1			
(Added	3707 d	X	X		
7.07404					





EN60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
info*)	New Directive 2011/65/11 *			
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure form earphones and headphones can cause hearing loss.	NIFIET NO	N/A	
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.	NISTER AND	N/A	
	Zx Protection against excessive sound pressure fro	om personal music players.	N/A	
7	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.	WHI N	N/A	
	A personal music player is a portable equipment for personal use, that:  - is designed to allow the user to listen to recorded or	THE STATE OF THE S		
	broadcast sound or video; and - primarily uses headphones or earphones that can be worn in or on or around the ears; and	WEET	7.7	
ATT	- 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.	WHO		
	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.	WETTER	779	
2	The requiremnts in this sub-clause are valid for music or video mode only.			
Certific	The requirements do not apply: -while the personal music players is connected to an external amplifier; or		X	







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Clause	Requirement – Test	Result – Remark	Verdict
	-while the headphones or earphones are not used.  NOTE 2 An external amplifier which is not part of the personal music players or the listening device, but which is intended to play the music as a standalone music player.	NIETO AND	
NV.	The requirements do not apply to: -hearing aid equipment and professional equipment; NOTE 3 Professional equipment is equipment sold through special	WEIGH	
77	sales channels. All products sold through normal electronics stores are considered not to be professional equipment.  -analogue personal music players (personal music players without any kind of digital processing of the	NIE GE	779
100	sound signal) that are brought to the market before the end of 2015.  NOTE 4 This exemption has been allowed because this technology	NI FEET	
	is falling out of use and it is expected that within a few years is will no longer exist. This exemption will not be extended to other technologies.	WEG	74
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.		
1	Zx.2 Equipment requirements	A TOTAL STATE OF THE PARTY OF T	N/A
	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	WESTER W.	779
	output $L_{Aeq.T}$ is $\le$ 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 is ≤27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1.	WESTER	771
	NOTE 1 wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalenr soud pressure level L <sub>Aeq.T</sub> is meant. See also Zx.5 and Annex Zx.  All other equipment shall:	77.75	
Certific	a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and	$\times$	$\times$







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Clause	Requirement – Test	Result – Remark	Verdict
1772	b) have a standard acoustic output level not	A 77777	A
	exceeding those mentioned above, and		
	automatically return to an output level not		
144	exceeding those mentioned above when the power	frage for	723
7	is switched off; and	711111111111111111111111111111111111111	774
	c) provide a means to actively inform the user of the	$\times$	
	increased sound pressure when the equipment is		
ATTE	operated with an acoustic output exceeding those	VIS T	
	mentioned above. Any means used shall be		
X	acknowledged by the user before activating a		X
122	mode of operation which allows for an acoustic	kan ka	-
9.8	output exceeding those mentioned above. The	11519	744
	acknowledgement dose not need to be repeated		1
	more than once every 20 h of cumulative listening		
ALL	time; and	AUS G	
/	NOTE 2 Examples of means include visual or audible signals. Action		
X	from the user is always required.	$\times$	X
	NOTE 3 The 20 h listening time is the accumulative listening time,		
	independent how long the personal music player has been switched	ATTESTICAL ATTE	144
	off.		
/			
100	d) have a warning as specified in Zx.3; and	A AMERICAN	1
/	e) not exceed the following:		
X	equipment provided as a package (player with	× 1	×
	its listening device), the acoustic output shall		
97	be ≤ 100 dBA measured while playing the	WSET W	741
	fixed "programme simulation noise" described		
	in EN 50332-1; and	X	
kee	a personal music player provided with an	A (max)	A
ALLE	analogue electrical output socket for a	1.59	
	listening device, the electrical output shall be		/
	$\leqslant$ 150 mV measured as described in EN		
	50332-2, while playing the fixed "programme	100000	777
	simulation noise" described in EN 50332-1.		
	For music where the average sound pressure (long	$\times$	
	term L <sub>Aeq.T</sub> ) measured over the dutation of the song is		
177	lower than the average produced by the programme	ATT THE	$\Lambda$
Certific	simulation noise, the warning dose not need to be		
TO TO	given as long as the average sound pressure of the		X
PART TOTAL	song is below the basic limit of 85dBA. In this case T	house hou	7-3





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	becomes the duration of the song.  NOTE 4 Classical music typically has an average sound pressure (long term L <sub>Aeq,T</sub> ) where is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the		
N/I	song and compare it with the programme simulation noise, the warning dose not need to be give 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 acknowledgemnt as	77919	
73	long as the average sound level of the song is not above the basic limit of 85 dBA.	AVERA AVE	744
2	Zx.3 Warning  The warning shall be placed on the equipment, or on		N/A
	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	ATES TO ATE	777
	- The following wording, or similar:  "To prevent possible hearing damage, do not listen at high volume levels for long periods."	N Ha	
77		AVISITE AVI	111
100	Figure 1 – Warning label (IEC 60417-6044)  Alternatively, the entire warning may be give through	WHITE	
	the equipment display during use, when the user is asked to acknowledge activation of the higher level.	$\times$	$\times$
100	Zx.4 Requirements for listening devices (headphone	es and earphones)	93
X17	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output $L_{Aeq,T}$ , the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be $\geq$ 75 mV.	TISUT .	N/A
Certific	This requirement is applicable in any mode where the headphones can operate (active or passive), including	$\times$	X







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7	any available setting (for example built-in volume level control).  NOTE The values of dBA -75 mV correspond with 85 dBA -27 mV and 100 dBA -150 mV.	NIFIET NO.	777
	Zx.4.2 Wired listening devices with digital input		N/A
NIE	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a	WHIT	_/
	digital interface standard exists that specifies the equivalent acoustic level), the acoustic output $L_{\text{Aeq},T}$ of	ATTENDED OF	X
7	the listening device shall be ≤ 100 dBA.  This requirement is applicable in any mode where the	711111111111111111111111111111111111111	794
1	headphones can operate, including any available setting (for example built-in volume level control,		
	additional sound feature like equalization, etc.).  NOTE An example of a wired listening device with digital input is a USB headphone.		$\times$
TT N	ATTECH ATTECH	ATHER	NI/A
	Zx.4.3 Wireless listening devices In wireless mode:		N/A
100	<ul> <li>with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and</li> </ul>	NI FIELD	
	<ul> <li>respecting the wireless transmission standards,</li> <li>where an air interface standard exists that</li> </ul>	WHAT AND	74
	specifies the equivalent acoustic level; and		
	<ul> <li>with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set</li> </ul>	NIFIE	
	to the combination of positions that maximize the measured acoustic output for the abovementioned	$\times$	X
-	programme simulation noise, the acoustic output  L <sub>Aeq,T</sub> of the listening device shall be ≤ 100 dBA	AUSTR	991
1	NOTE An example of a wireless listening device is a Bluetooth headphone.		
Certific	Zx.5 Measurement methods		N/A
10/2/201	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated	$\Delta$	$\times$







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	otherwise, the time interval T shall be 30 s.  NOTE Test method for wireless equipment provided without listening device should be defined.		
2.7.1	Replace the subclause as follows:  Basic requirements  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):  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;  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	NISTED WITH	Р
	protection may be provided by protective devices in the building installation;  c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit	VISION NO.	N/A
77	protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	WISHT W	777
2.7.2	This subclause has been declared 'void'.	X	N/A
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	A115147 A11	N/A
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".	TISH A	N/A

I Standardization PengChe-Service (Shenzhen)Co.,Ltd Testing (Shenzhen)Co.,Ltd





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Clause	Requirement – Test	Result – Remark	Verdict
4	In table 3B, replace the first four lines by the following:  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   $	NIFIER AND	777
	In the conditions applicable to table 3B, delete the words "in some countries" in condition <sup>a)</sup> .  In NOTE 1, applicable to Table 3B, delete thesecond sentence.	VIII I	_
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designationscorresponding to the IEC cord types are given inAnnex ZD	NUMBER OF THE	N/A
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:  Over 10 up to and including 16   1,5 to 2,5   1,5 to 4	THE STATE OF THE S	N/A
	Delete the fifth line : conductor sizes for 13 to 16 A.		
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following:  NOTE Z1 Attention is drawn to:	NIST NI	N/A
	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents(artificial optical radiation).	7799	
	Standards taking into account mentioned  Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	NIST AND	N/A
Annex H	Replace the last paragraph of this annex by:  At any point 10 cm from the surface of the operator access area, the dose rate shall not exceed 1 µSv/h		N/A
	(0,1 mR/h) (see note). Account is taken of the background level  Replace the notes as follows:	$\times$	X
	NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	AUGIGA AU	797
Bibliograp-	Additional EN standards.	ATH THE	_
hy			
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PI CORRESPONDING EUROPEAN PUBLICATIONS	UBLICATIONS WITH THEIR	_







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	EN60950-1	$\sim$	
Clause	Requirement – Test	Result – Remark	Verdict
177	ZB ANNEX(normative) SPECIAL NATIO	ONAL CONDITIONS(EN)	
1.2.4.1	In <b>Denmark</b> , certain types of Class I appliances (see		N/A
	3.2.1.1) may be provided with a plug not establishing		
7	earthing conditions when inserted into Danish	1757	507
	socket-outlets.		
1.2.13.14	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1	X	N/A
(A11:2009)	and 7.3 of this annex		1
1.5.7.1	In Finland, Norway and Sweden, resistors bridging	71614	N/A
(A11:2009)			
	EQUIPMENT TYPE A must comply with the		
723	requirements in1.5.7.1. In addition when a single	Arresta Arr	744
7.0	resistor is used, the resistor must withstand the resistor	7	· / · / · · · · · · · · · · · · · · · ·
	test in 1.5.7.2.	× /	
1.5.8	In <b>Norway</b> , due to the IT power system used (see		N/A
117	annex V, Figure V.7), capacitors are required to be	WSST	IV/A
/	rated for the applicable line-to-line voltage (230 V).		
1.5.9.4	In Finland, Norway and Sweden, the third dashed	X	N/A
	sentence is applicable only to equipment as defined in		
	6.1.2.2 of this annex.	2779	79.
1.7.2.1	In Finland, Norway and Sweden, CLASS I		N/A
/	PLUGGABLE EQUIPMENT TYPE A intended for		
100	connection to other equipment or a network shall, if	1000	1
/	safety relies on connection to protective earth or if		
X .	surge suppressors are connected between the network	X	X
	terminals and accessible parts, have a marking stating		
771	that the equipment must be connected to an earthed	AWSET	741
	mains socket-outlet. The marking text in the applicable		
	countries shall be as follows:		
Arra	In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla	A (1)	A
- Just	varustettuun pistorasiaan"		1
	In <b>Norway</b> : "Apparatet må tilkoples jordet stikkontakt"		V
	In Sweden: "Apparaten skall anslutas till jordat uttag"		
777	1757	1959	947
1721/11	In Norway and Sweden, the screen of the cable		
1.7.2.1(A1	distribution system is normally not earthed at the	X	
1:2009)	entrance of the building and there is normally no		
177	equipotential bonding system within the building.	AT PATE	$\Lambda$
Certific	Therefore the protective earthing of the building		
Silon Silon	installation need to be isolated from the screen of a		X
	cable distribution system.		







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Clause	Requirement – Test	Result – Remark	Verdict
ATE	It is however accepted to provide the insulation		1
/	external to the equipment by an adapter or an		
	interconnection cable with galvanic isolator, which may		
	be provided by e.g. a retailer.	August Au	-
74	The user manual shall then have the following or	7	7.7.4
	similar information in Norwegian and Swedish	×	
	language respectively, depending on in what country		
ATT	the equipment is intended to be used in: "Equipment	AVE TO	1
	connected to the protective earthing of the building		
X	installation through the mains connection or through	X	X
	other equipment with a connection to protective		
774	earthing – and to a cable distribution system using	177740	714
	coaxial cable, may in some circumstances create a fire		
	hazard. Connection to a cable distribution system has		
Arra	therefore to be provided through a device providing	A AMERICAN	A
1	electrical isolation below a certain frequency range		
	(galvanic isolator, see EN 60728-11)."	× .	×
	NOTE In Norway, due to regulation for installations of		N/A
77	cabledistribution systems, and in Sweden, a galvanic isolator	NV511	77
/	shallprovide electrical insulation below 5 MHz. The insulation		
	shallwithstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60	X	
_	Hz,for 1 min.		
All	Translation to Norwegian (the Swedish text willalso be	17574	$-\Delta$
/	accepted in Norway):"Utstyr som er koplet til	3	
	beskyttelsesjord vianettplugg og/eller via annet		$\wedge$
733	jordtilkopletutstyr – og er tilkoplet et kabel-TV nett,	harries ha	777
74	kanforårsake brannfare. For å unngå dette skal detved	731217	-/-
	tilkopling av utstyret til kabel-TV nettetinstalleres en		
	galvanisk isolator mellom utstyretog kabel- TV		
177	nettet."Translation to Swedish:"Utrustning som är	Wald	
	kopplad till skyddsjord viajordat vägguttag och/eller via		
X	annanutrustning och samtidigt är kopplad till	X	X
	kabel-TVnät kan i vissa fall medfra risk frbrand. Fr att		
744	undvika detta skall vid anslutningav utrustningen till	Allera Mi	777
	kabel-TV nätgalvanisk isolator finnas mellan		
	utrustningen ochkabel-TV nätet."	$\sim$	
1.7.2.1	In <b>Denmark</b> , CLASS I PLUGGABLEEQUIPMENT	1	N/A
(A2:2013)	TYPE A intended for connection toother equipment or		
certific	a network shall, if safety relieson connection to	X	$\times$
100	protective earth or if surgesuppressors are connected		
	The Property of the Property o	Annual Control of the	









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between the networkerminals and accessible parts, have a markingstating that the equipment must be connected toan earthed mains socket-outlet.  The marking text in Denmark shall be as follows:In Denmark: "Apparatets stikprop skal tilsluttesen stikkontakt med jord, som giver forbindelse tilstikproppens jord."  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.  For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.  In Denmark, socket-outlets for providing power toother equipment shall be in accordance with theDS 60884-2-D1:2011.  For class I equipment the following StandardSheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY EQUIPMENT where thesocket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.  Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in		EN60950-1		
have a markingstating that the equipment must be connected toan earthed mains socket-outlet.  The marking text in Denmark shall be as follows:In Denmark: "Apparatets stikprop skal tilsluttesen stikkontakt med jord, som giver forbindelse tilstikproppens jord."  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.  1.7.5 For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DK 1-4a.  In Denmark, socket-outlets for providing power toother equipment shall be in accordance with theDS 60884-2-D1:2011.  For class I equipment the following StandardSheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY EQUIPMENT where thesocket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a.  Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in	Clause	Requirement – Test	Result – Remark	Verdict
Denmark: "Apparatets stikprop skal tilsluttesen stikkontakt med jord, som giver forbindelse tilstikproppens jord."  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.  1.7.5 For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.  In Denmark, socket-outlets for providing power toother equipment shall be in accordance with theDS 60884-2-D1:2011.  For class I equipment the following StandardSheets are applicable: DK 1-3a, DK 1-1c,DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY EQUIPMENT where thesocket-outlets shall be in accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a.  Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in		have a markingstating that the equipment must be connected toan earthed mains socket-outlet.		
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.  For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.  1.7.5 In Denmark, socket-outlets for providing power toother equipment shall be in accordance with theDS 60884-2-D1:2011. For class I equipment the following StandardSheets are applicable: DK 1-3a, DK 1-1c,DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY EQUIPMENT where thesocket-outlets shall be in accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a. Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in		<b>Denmark</b> : "Apparatets stikprop skal tilsluttesen stikkontakt med jord, som giver forbindelse		144
the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.  1.7.5  (A11:2009)  1.7.5  In Denmark, socket-outlets for providing power toother equipment shall be in accordance with theDS 60884-2-D1:2011.  For class I equipment the following StandardSheets are applicable: DK 1-3a, DK 1-1c,DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY EQUIPMENT where thesocket-outlets shall be in accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a.  Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in	1.7.5	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	NISET NO	N/A
equipment shall be in accordance with theDS 60884-2-D1:2011.  For class I equipment the following StandardSheets are applicable: DK 1-3a, DK 1-1c,DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY EQUIPMENT where thesocket-outlets shall be in accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a.  Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in	100	the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.  For CLASS II EQUIPMENT the socket outlet shall be	TUSET.	
are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY  EQUIPMENT where thesocket-outlets shall be in accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.  Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in		equipment shall be in accordance with theDS	NIST NI	N/A
accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a.  Socket outlets intended for providing power toClass II apparatus with a rated current of 2,5 Ashall be in accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in		are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exceptionfor STATIONARY	ATHIR A	
accordance with DS 60884-2-D1standard sheet DKA 1-4a. Other current ratingsocket outlets shall be in		accordance withStandard Sheet DK 1-1b, DK 1-1c, DK 1-1d orDK 1-5a.		574
LOUIDIIAILE WILL DVDS 00004-Z-D L SIAIUAIU SIIEEL		accordance with DS 60884-2-D1standard sheet DKA		1
DKA 1-3a orDKA 1-3b.  Justificationthe Heavy Current Regulations, 6c		DKA 1-3a orDKA 1-3b.  Justificationthe Heavy Current Regulations, 6c		
2.2.4 In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		6.1.2.2 of this annex.	AVSET AV	947
2.3.2 In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	2.3.2	requirements for the insulation. See 6.1.2.1 and 6.1.2.2		N/A
2.3.4 In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and N/A 6.1.2.2 of this annex.  2.6.3.3 In the <b>United Kingdom</b> , the current rating of the circuit N/A	Certific	61, 2,2 of this annex.		$\times$







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Clause	Requirement – Test	Result – Remark	Verdict
137	shall be taken as 13 A, not 16 A.	177	
2.7.1	In the United Kingdom, to protect against excessive	X	N/A
	currents and short-circuits in the PRIMARY CIRCUIT		
77	of DIRECT PLUG-IN EQUIPMENT, tests according to	AVISION AVI	527
	5.3 shall be conducted, using an external protective		
	device rated 30 A or 32 A. If these tests fail, suitable	X	
4	protective devices shall be included as integral parts of		1
110	the DIRECT PLUG-IN EQUIPMENT, so that the	1.879	-/
	requirements of 5.3 are met.		/
2.10.5.13	In Finland, Norway and Sweden, there are additional		N/A
	requirements for the insulation, see 6.1.2.1 and 6.1.2.2	19296	744
	of this annex.		
3.2.1.1	In <b>Switzerland</b> , supply cords of equipment having a	X	N/A
	RATED CURRENT not exceeding 10 A shall be		
111	provided with a plug complying with SEV 1011 or IEC	AVSET	$-\Delta$
	60884-1 and one of the following dimension sheets:		
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V,	X .	X
	10 A		
AM.	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A	Zielas Zie	N/A
	SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A		
/	In general, EN 60309 applies for plugs for currents		
100	exceeding 10 A. However, a 16 A plug and	A AVERAGE	1
/	socket-outlet system is being introduced in		
	Switzerland, the plugs of which are according to the	× .	X
	following dimension sheets, published in February		
ET .	1998:	AVS 57 AV	747
	SEV 5932-2.1998 Plug Type 25, 3L+N+PE 230/400V,		
	16 A	X	
4	SEV 5933-2.1998 Plug Type 21, L+N, 250V, 16A		
Alik	SEV 5934-2.1998 Plug Type 23, L+N+PE 250V, 16 A	ALETTA A	
3.2.1.1	In <b>Denmark</b> , supply cords of single-phase equipment		N/A
	having a rated current not exceeding13 A shall be		
	provided with a plug according to the Heavy Current	1000	933
1	Regulations, Section 107-2-D1.		
	CLASS I EQUIPMENT provided with socket-outlets	X	
/	with earth contacts or which are intended to be used in		
477	locations where protection against indirect contact is	ATTEN A	$-\Lambda$
Certifi	required according to the wiring rules shall be provided		
Tol Tol	with a plug in accordance with standard sheet DK 2-1a	X	X
	or DK 2-5a.		







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Clause	Requirement – Test	Result – Remark	Verdict
70	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.	NIETO NII	77.0
3.2.1.1 (A2:2013)	In <b>Denmark</b> , supply cords of single-phaseequipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1.	THE STATE OF THE S	N/A
99	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 wiringrules shall be provided	AVETER AVI	974
100	with a plug in accordancewith standard sheet DK 2-1a or DK 2-5a.  If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a	NISTE A	
77	poly-phaseequipment is provided with a supply cord with aplug, this plug shall be in accordance with thestandard sheets DK 6-1a in DS 60884-2-D1 orEN	NIST AND	Y Grad
	Justification the Heavy Current Regulations, 6c		
3.2.1.1	In <b>Spain</b> , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated	WEIGHT WE	N/A
NV.	current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.  CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in	WISTER	
	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.	AVISTA AVI	579
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.		
3.2.1.1	In the <b>United Kingdom</b> , 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	$\times$	N/A







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	EN60950-1	$\overline{}$	
Clause	Requirement – Test	Result – Remark	Verdict
7	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	NIETO NI	700
NIE	exempted by those regulations.  NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	VI FI FI	
3.2.1.1	In <b>Ireland</b> , 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	XIE GE	N/A
3.2.4	525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.  In <b>Switzerland</b> , for requirements see 3.2.1.1 of this	WEET.	N/A
3.2.5.1	In the <b>United Kingdom</b> , a power supply cord with	AVISTO	N/A
2	conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.		
3.3.4	In the <b>United Kingdom</b> , 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	WEST NV	N/A
	and including 13 A is: • 1,25 mm2 to 1,5 mm2 nominal cross-sectional area.		
4.3.6	In the <b>United Kingdom</b> , the torque test is performed using a socket outlet complying with BS 1363 part	WHITE	N/A
	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,		X
	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		
Certific 4.3.6	replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.  In Ireland, DIRECT PLUG-IN EQUIPMENT is known	77997	N/A
7.00	III II CIAIU, DINEOT FLUG-IN EQUIPIVIENT IS KIIOWII		IN/A







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	EN60950-1	$\overline{}$	
Clause	Requirement – Test	Result – Remark	erdict
7	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.	NIEGO NIEGO	
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT		N/A
ATTE	measurement results exceeding 3,5 mA r.m.s. are permitted only for the	VISIT	1
7.	following equipment:  • STATIONARY PLUGGABLE EQUIPMENT TYPE A that  is intended to be used in a RESTRICTED	XVISITE AVISTS	1
	ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and	NVS 47	
	has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON;	X	
	• STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.		
6.1.2.1 (A1:2010)	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , add the following text between the first and second paragraph of the compliance clause:  If this insulation is solid, including insulation forming	X X X X X X X X X X X X X X X X X X X	N/A
	<ul> <li>part of a component, it shall at least consist of either</li> <li>two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>one layer having a distance through insulation of at</li> </ul>		
	least 0,4 mm, which shall pass the electric strength test below.  Alternatively for components, there is no distance		
ATT.	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	N.Elec	
Certific	electric strength test in accordance with the compliance clause below and in addition  - passes the tests and inspection criteria of 2.10.11	$\times$	









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Clause	Requirement – Test	Result – Remark	Verdict
	with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and - is subject to ROUTINE TESTING for electric	WEIGHT W	
	strength during manufacturing, using a test voltage of 1,5 kV.		
100	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	N. H.	N/A
7.	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.  A capacitor classified Y3 according to EN	NIEGO NI	779
	60384-14:2005, may bridge this insulation under the following conditions:  - the insulation requirements are satisfied by having	NI FEET	
	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;	WE TO ME	77.0
4	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384-14;</li> <li>the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the</li> </ul>	77.77	
	sequence of tests asdescribed in EN 60384-14.		
6.1.2.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED	NISSET NI	N/A
1	ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and	NIST OF THE PARTY	1
	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.	AVISIAN AVI	77
7.2	In Finland, Norway and Sweden, for requirements		N/A
An	see 6.1.2.1 and 6.1.2.2 of thisannex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE	THE	
7.3 Certify	DISTRIBUTION SYSTEM.  In Norway and Sweden, for requirements see	X	N/A







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	EN60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
(A11:2009)	1.2.13.14 and 1.7.2.1 of this annex.	1777	

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ADD:Building A, Baoshi Science & technology Park, Baoshi Road, Bao' an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX: 86-755-26996253 E-mail: market@wsct.org.cn Http: www.wsct.cert.org

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Report No.: WSCT1511002847S Issued: November 18, 2015 Revised: None TABLE: list of critical components 1.5.1 Standard Object/part Type/model Technical data Certification No. Manufacturer/ No. trademark V-0, 130 °C, UL94 SHF4910(G **Enclosure** SABIC INNOVATIVE UL E45329 min. thickness PLASTICS B V G) 1.5mm. DB-14 10A, 250V VDE IEC/EN 60320-1 Inlet Zhejiang LECI Electronics Co., Ltd 105°C, UL 758 UL Internal wire Various Various min. 18AWG, 600V. UL Earth wire 105°C. UL 758 Various **Various** min. 18AWG. 600V. Resistor 0.91Mohm, EN60950-1 Test with Various Various (R1,R2)min.1/8W appliance **PCB** V-0, 130 °C UL E320265 **UL 796** Mei Zhou Li Yu Da LYD-2 Circuit Board Co Ltd V-0, 130 °C (Alt.) **DONGGUAN** UL 796 UL E230194 KB-5150 HUAXING CIRCUIT **BOARD FACTORY** V-0, 130 °C (Alt.) **UL 796** Various Various UL Fuse **XC ELECTRONICS** 5TE T3.15A, 250 Vac IEC/EN 60127-1 VDE 40029550 (F1) (SHENZHEN) CORP IEC/EN 60127-3 LTD (Alt.) **CONQUER** MST T3.15A, 250 Vac IEC/EN 60127-1 UL E82636 **ELECTRONICS CO** IEC/EN 60127-3 VDE 40017118 LTD (Alt.) Shenzhen Lanson **SMT** T3.15A, 250 Vac IEC/EN 60127-1 UL E221465 Electronics CO LTD IEC/EN 60127-3 VDE 40012592 Varistor 300Vac, EN 61051-1 VDE 40004658 JOYIN CO LTD 10S561K, (RV1) 85°C EN 61051-2 UL E325508 14S561K (Optional) EN 61051-2-2 **UL1449** VDE 40027827 300Vac. EN 61051-1 (Alt.) **BRIGHTKING(BEIJIN** 10D561K EN 61051-2 85°C G)CO.,LTD 14D561K EN 61051-2-2 X-capacitor Max.0.47uF, VDE 40008924. EN 60384-14 Shenzhen Su Rong MPX/MKP 280Vac, (CX1) Capacitors X2 Type, Co., Ltd. 105°C Max.0.47uF, EN 60384-14 VDE40018798. Dain Electronics Co., **MPX** (Alt.) 275Vac, UL E147776 UL 1414 Ltd X2 Type. 110°C Max.0.47uF, EN 60384-14 VDE40006514. (Alt.) Shenzhen Jing Yu CBBX2 **UL 1414** 275Vac, UL E230035 Electronics Co.,Ltd

> rd Standardization Peng Chey Service (Shenzhen) Co., Ltd & Testing (Shenzhen) Co., Ltd

X2 Type, 105°C





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	rtoport rto rro	AMEETA	ALLEE C		ACC. NO. L3732		
	(Alt.)	Shenzhen Yimanfeng Science And	MKP	Max.0.47uF, 280Vac, X2 Type,	EN 60384-14 UL 1414	VDE 40028516 UL E315567	
	(Alt.)	Technology Co., Ltd.  Fuxin Pan Ocean	MPX-X2	105°C Max.0.47uF, Min.275Vac,	EN 60384-14	VDE 40015756	Z
>		Electronic Ltd.	$\times$	X2 Type 110°C	$\times$	$\times$	
97	(Alt.)	Xiamen Faratronic Co. Ltd	MKP62	Max.0.47uF, 275Vac,	EN 60384-14 UL 1414	VDE40000358, UL E186600	
	(Alt.)	Shantou High-New	MPX	X2 Type 110°C Max.0.47uF,275	EN 60384-14	VDE 40034679	
	AVISIO	Technology Dev. Zone Songtian Enterprise Co., Ltd.	F	Vac, X2 Type 110°C	UL 1414	UL E208107	3
) G	(Alt.)	Dongguan Easy-gather Electronic Co., Ltd.	MKP-X2	Max.0.47uF,275 Vac, X2 Type 110°C	EN 60384-14 UL 1414	VDE40022258 UL E252221	
	Y- capacitor (CY1, CY2, CY3, CY4, CY5)	Dongguan Easy-gather Electronic Co., Ltd.	DCF	Max.2200pF, 400Vac, 125°C,	EN 60384-14 UL 1414	VDE 40022942, UL E252221	\ /
	(Alt.)	Shantou High-New	CD	Y1 type Max. 2200pF,	EN 60384-14	VDE 40025754	2
>	(Ait.)	TechnologyDev. Zone Songtian Enterprise	CD	min.250Vac, 125°C,	UL 1414	UL E208107	
9		Co., Ltd.	ALES	Y1 type	V567	ATATA AL	
	(Alt.)	Yinan Don's Electronic Component Co.,Ltd	CT81	Max. 2200pF, min.250Vac, 125°C,	EN 60384-1 UL 1414	VDE 135256 UL E145038	
>	(Alt.)	NANJING YUYUE ELECTRONICS	CT7	Y1 type  Max. 2200pF,  400Vac,	EN 60384-14 UL 1414	VDE 40008010 UL E237728	
		CO.,LTD	1.514	125°C, Y1 type	- T	11079	
	(Alt.)	VISHAY Electronic GmbH	VY1	Max. 2200pF, 500Vac,	EN60384-14 UL 1414	VDE 40012673 UL E183844	7 5 6
>		$\times$	$\rightarrow$	125°C, Y1 type	$\times$	$\times$	
G	(Alt.)	Guangdong South Hongming Electronic	F	Max. 2200pF, min.250Vac,	EN 60384-14 UL 1414	VDE 40036246 UL E154899	
	X	Science and Technology Co., Ltd.		125°C, Y1 type	X		2
\	(Alt.)	JYA-NAY Co., Ltd.	JN	Max. 2200pF, min.250Vac,	UL 1414	UL E201384	L
7		\$ 10st		125°C, Y1 type			





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					110011010101	
	Photo	COSMO Electronics	KPC817	Dti>=0.4mm,	EN 60950-1	VDE 101347
	coupler	Corporation	K1010	100 °C	UL1577	LII 5400500
	(US1)					UL E169586
	(Alt.)	Sharp Corporation	PC817	Dti>=0.4mm,	EN 60950-1	VDE 40008087
	(Ait.)	Electronic		100°C	UL1577	UL E64380
		Components and				
>		Devices Group	X		X	X
	(Alt.)	Lite-On Electronics	LTV-817	Dti=0.5mm,	UL1577	UL E113898
		Co., Ltd.	Arres	100 °C	7274	AUGGE
4	(Alt.)	Everlight Electronics	EL817	Dti=0.5mm,	EN 60950-1	VDE 132249
		Co., Ltd.		100 °C	UL1577	UL E214129
				$\sim$		OL E214129
	(Alt.)	Bright Led Electronics	BPC-817	Dti>=0.4mm,	EN 60950-1	VDE 40007240
	A 1150	Corp.		100°C	UL1577	UL E236324
	Inculation	HAIC HANC VALUIA	PZ-280	420°C	LII. 540	LII E465444
)	Insulation Tape	JINGJIANG YAHUA PRESSURE	PZ-280	130°C	UL 510	UL E165111
	(Wrap HS1)	SENSITIVE GLUE				/ \
	(Wap 1101)	COLTD	1000		75707	ATTERNA
	Insulation	MianYang LongHua	PP-(i)(j)	Min. 0.4mm	UL 94	UL E254551
	sheet	Film Co.,Ltd	(70)	thickness,	OL OT	
		FIIIII CO.,LIU		V-0, 100°C	<i>X</i>	
	Transformer	QINZHOU	PT-02-5501	Class B	EN60950-1	Test with
	(T1)	CHANGHUI	30	ALEIGH		appliance
	(11)	ELECTRONICAL				
P		^	X		X	X
		TECHNOLOGY	1	7		
5		CO.LTD	1175		7777	ATTACK
	\	CHANG CHUN	T375J	150°C, V-0	UL94	UL E59481
	-Bobbin	PLASTICS CO LTD		X	X	
	NA====+ \			420%0	111.4440	III E05040
	-Magnet Wire	Tai-l Electric Wire&Cable	UEW,UEW B	130°C	UL1446	UL E85640
	/	Co.,Ltd	UEWE			
١	-Triple	FURUKAWA	TEX-E	130°C	UL1446	UL E206440
•			TLX-L	130 C	1	
	insulation	ELECTRIC CO LTD	Acres -	A	EN60950-1	VDE 006735
	wire					
	WIIO	ALLE IS ALL	- ALIFIA			ATHE
	-(Alt.)	GREAT LEOFLON	TRW(B)	130°C	UL1446	UL E211989
		GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	130°C	UL1446 EN60950-1	UL E211989 VDE 136581
	-(Alt.)	INDUSTRIAL CO LTD		X	EN60950-1	VDE 136581
		INDUSTRIAL CO LTD  E&B Technology	TRW(B)	130°C	EN60950-1 UL1446	VDE 136581 UL E315265
	-(Alt.)	INDUSTRIAL CO LTD  E&B Technology  Co.,Ltd	E&B-XXXB	130°C	EN60950-1 UL1446 EN60950-1	VDE 136581 UL E315265 VDE 40023473
	-(Alt.)	INDUSTRIAL CO LTD  E&B Technology  Co.,Ltd  CHANGYUAN		X	EN60950-1 UL1446	VDE 136581 UL E315265
	-(Alt.)	INDUSTRIAL CO LTD  E&B Technology  Co.,Ltd	E&B-XXXB	130°C	EN60950-1 UL1446 EN60950-1	VDE 136581 UL E315265 VDE 40023473
	-(Alt.)	INDUSTRIAL CO LTD  E&B Technology  Co.,Ltd  CHANGYUAN	E&B-XXXB	130°C	EN60950-1 UL1446 EN60950-1	VDE 136581 UL E315265 VDE 40023473
	-(Alt.) -(Alt.)	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd  CHANGYUAN ELECTRONICS CO., LTD	E&B-XXXB  CB-TT-S	130°C 600V, 200°C	EN60950-1 UL1446 EN60950-1 UL 510	VDE 136581 UL E315265 VDE 40023473 UL E180908
	-(Alt.)	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd  CHANGYUAN ELECTRONICS CO.,	E&B-XXXB	130°C	EN60950-1 UL1446 EN60950-1	VDE 136581 UL E315265 VDE 40023473
	-(Alt.) -(Alt.)	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd  CHANGYUAN ELECTRONICS CO., LTD	E&B-XXXB  CB-TT-S	130°C 600V, 200°C	EN60950-1 UL1446 EN60950-1 UL 510	VDE 136581 UL E315265 VDE 40023473 UL E180908
	-(Alt.) -(Alt.)	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd CHANGYUAN ELECTRONICS CO., LTD  SHENZHEN WOER	E&B-XXXB  CB-TT-S	130°C 600V, 200°C	EN60950-1 UL1446 EN60950-1 UL 510	VDE 136581 UL E315265 VDE 40023473 UL E180908
	-(Alt.) -Tube	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd  CHANGYUAN ELECTRONICS CO., LTD  SHENZHEN WOER HEAT-SHRINKABLE	E&B-XXXB  CB-TT-S	130°C 600V, 200°C 600V, 200°C	EN60950-1 UL1446 EN60950-1 UL 510 UL 510	VDE 136581  UL E315265  VDE 40023473  UL E180908  UL E203950
	-(Alt.) -(Alt.)	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd  CHANGYUAN ELECTRONICS CO., LTD  SHENZHEN WOER HEAT-SHRINKABLE	E&B-XXXB  CB-TT-S	130°C 600V, 200°C	EN60950-1 UL1446 EN60950-1 UL 510	VDE 136581 UL E315265 VDE 40023473 UL E180908
	-(Alt.) -Tube	INDUSTRIAL CO LTD  E&B Technology Co.,Ltd  CHANGYUAN ELECTRONICS CO., LTD  SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	E&B-XXXB  CB-TT-S  WF	130°C 600V, 200°C 600V, 200°C	EN60950-1 UL1446 EN60950-1 UL 510 UL 510	VDE 136581  UL E315265  VDE 40023473  UL E180908  UL E203950





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				1101011 5000 000 50	
-Insulation	JINGJIANG YAHUA	PZ-280	130°C	UL 510	UL E165111
Tape	PRESSURE	E.			
$\sim$	SENSITIVE GLUE				6
	COLTD				
Noto:					

Note:







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1.5.1 TABLE: Opto Electronic Device	es		monacies.org.cii		Р
Manufacturer	COSMO Electronics Corporation	Sharp Corporation Electronic Components and Devices Group	Lite-On Electronics Co., Ltd	Everlight Electronics Co., Ltd.	Bright Led Electronics Corp.
Type:	KPC817, K1010	PC817	LTV-817	EL817	BPC-817
Separately tested:	VDE, UL	VDE, UL	VDE, UL	VDE, UL	VDE, UL
Bridging insulation:	RI	RI	RI	RI	RI
External creepage distance (mm):	5.2, 6.5	8.2	7.6	7.6	7.6
Internal creepage distance (mm):	5.2, 6.5	4.0	7.6	7.6	7.6
Distance through insulation (mm):	≥0.4	≥0.5	≥0.5	≥0.5	≥0.4
Tested under the following conditions:	N/A	N/A	N/A	N/A	N/A
Input:	<del>-</del>		X-		X
Output:	<u> </u>				
Supplementary information: RI: reinforced in	nsulation	$\overline{}$	TATE AND		TATA

	1.6.2	TABLE: Electrical data (in normal conditions)					Р
U (V)		Irated (A)	I (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
-	90V50Hz		1.232	69.23	F1	1.232	Loading 55V, 1100mA
}	100V50Hz	1.5	1.103	69.19	F1	1.103	Loading 55V, 1100mA
3	240V50Hz	1.5	0.610	68.81	F1	0.610	Loading 55V, 1100mA
	264V50Hz		0.589	68.93	F1	0.589	Loading 55V, 1100mA
-	90V60Hz		1.209	69.24	F1	1.209	Loading 55V, 1100mA
	100V60Hz	1.5	1.103	69.02	F1	1.103	Loading 55V, 1100mA
	240V60Hz	1.5	0.604	68.67	F1	0.604	Loading 55V, 1100mA
)	264V60Hz	- X	0.538	68.92	F1	0.538	Loading 55V, 1100mA

2.1.1.5 c) 1) TABLE: m	ax. V, A, VA test	ALL DE LA CONTRACTOR DE	- PUPIS	P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
55	1.1/5/1	54.86	1.19	62.81
Note(s):etification				





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2.1.1.5 c) 2)	TABLE: stored energy		www.cnes.org.cn	N/A
Capacitance C (μF)		Voltage U (V)	Energy E (J)	
11750		SET AVISET	AVSET	
Note(s):				

	2.2	TABLE: evaluation o	f voltage limiting	components in S	SELV circuits	P
	Component (n	neasured between)	max. V	/oltage	Itage Voltage Limitation Componer	
			V peak	V d.c.		
	T1 pin 7-FA		261	AUHAA	17879	
	After DS1		- 😾	50.5	📉	
Fault test performed on voltage limiting components			Voltage measu	red (V) in SELV circuits (	V peak or V d.c.)	
	DS1 short	AWSET	AWSL	0	A7777	AWSET
	Supplementar	ry information:				

2.5 TABLE: lir	mited power source meas	surement	(T)	AWSET	Р		
Circuit output tested:							
Note: Measured Uoc (V)	7						
Components	Uoc(V)	l <sub>sc</sub> (	(A)	V	<b>/</b> A		
		Meas.	Limit	Meas.	Limit		
Output/normal	54.86	1.19	8	62.81	100		
R17/Sc	54.50	1.19	8	64.85	100		
U1 PIN1-2/Sc	0	0	8	0	100		
U1 PIN3-4/Sc	0 1	75/70	8 75 7	0	100		
U1 PIN1/Oc	0	0	8	0	100		
RS7/Sc	32.0	0	8	0	100		
US2 PIN A-K/Sc	29.20	0	8	0.5	100		
Supplementary information	on:	X	X		X		
Sc=Short circuit, Oc=Ope	en circuit		1000	1	199		

2.10.2 Table: working vo	oltage measurement	X	P
Location	Peak voltage (V)	RMS voltage (V)	Comments
T1 Pin 1 to Pin FA	524	222	
T1 Pin 2 to Pin FA	544	228	Max. PEAK voltage







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- 11 1		
- 11 11		
11.0		

			Week cont or co
T1 Pin 5 to Pin FA	505	230	www.cies.org.cii
T1 Pin 6 to Pin FA	525	239	Max. RMS voltage
T1 Pin 1 to Pin 7	460	258	house A
T1 Pin 2 to Pin 7	348	212	
T1 Pin 5 to Pin 7	440	227	X
T1 Pin 6 to Pin 7	364	226	formal formal
CY1 prisec.	340	211	1817
CY4 prisec.	112	77.2	×
US1 Pin 1 to Pin 3	384	233	<i>(</i>
US1Pin 1 to Pin 4	380	231	1.00
US1 Pin 2 to Pin 3	384	231	X
US1Pin 2 to Pin 4	380	230	
Note:	ALET!		THE PARTY OF THE P

2.10.3 and 2.10.4 TABLE: clea	rance and cr	eepage dista	nce measure	ements		Р
Clearance cl and creepage distance dcr at/of:	Up(V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
Functional:						
L to N	340	240	1.5	4.5	2.5	4.5
Basic/supplementary:						
Pri. Side and Sec. Side of F1	340	240	2.0	3.1	2.5	3.1
L to live part after F1	340	240	2.0	3.0	2.5	3.0
L to earth	340	240	2.0	3.4	2.5	3.6
N to earth	340	240	2.0	3.8	2.5	6.6
Pri. Side and Sec. Side of CY2	340	240	2.0	5.0	2.5	5.0
Pri. Side and Sec. Side of CY3	340	240	2.0	6.6	2.5	6.6
Reinforced:	17	CUE LA		الخاطانكم		71171343
Pri. Side and Sec. Side of CY1	340	211	4.0	6.6	5.0	6.6
Pri. Side and Sec. Side of CY4	112	77.2	4.0	6.6	5.0	6.6
Pri. Side and Sec. Side of US1	384	233	4.0	6.9	5.0	6.9
Live part to accessible enclosure	340	240	4.0	6.0	5.0	6.0
Pri. trace to sec. trace of T1 on PCB	544	239	4.4	6.9	5.0	6.9
Pri. winding/core to sec. pin of T1	544	239	4.4	6.1	5.0	6.1
Pri. winding/core to US1 SEC. PIN	544	239	4.4	6.2	5.0	6.2
Pri. winding/core to CS4	544	239	4.4	6.0	5.0	6.0
Note(s):		X				



Standardization PengCheervice (Shenzhen)Co.,Ltd. esting (Shenzhen)Co.,Ltd.





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M M N / Y A Y M M N				nos oro co	
2.10.5 TABLE: distance through	Р				
Distance through insulation (DTI) at/of:	U peak	U rms (V)	Test voltage	Required DTI	DTI (mm)
	(V)		(V)	(mm)	
Enclosure	340	240	3000	0.4	1.9
Insulation sheet	544	240	544	239	0.41
Note(s):	Kra.	733		-	August 1

4.3.8	TABLE: Ba	atteries	X		X			$\times$		N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available					1450		_/	719	1	N/A
Is it possible to install the battery in a reverse polarity position			X						N/A	
	Non-rec	hargeable b	oatteries			Recharge	eable batte	ries		
9.0	Discha	arging	Unintenti onal	Char	ging	Disch	arging		Reve char	
X	Meas. Current	ManuF. Specs.	charging	Meas. Current	ManuF. Specs.	Meas. Current	ManuF. Specs.	Meas Curre		ManuF. Specs.
Max.		/ 5	X77 <del>4</del> 7		11/57		1	(5/4)		
current during		Z		$\times$						
normal				$\sim$		<i></i>			14	
condition		140		FIRE	_	ATE			1	
								\/	/	
Max.			X-					$\nearrow$	6	
current	-	A	278		10000	<u>}</u>	A	10.00	3	
during	_	/			115-17		1	FIE	-	
fault		×		X						
condition	/									
GT N		747	/	WSIT	\	117	77		A	274
Test results:										Verdict
- Chemical lea	aks									N/A
- Explosion of	the battery	-/1	7517 L		Allera		$-\Delta$	<b>75</b> (4)		N/A
- Emission of	- Emission of flame or expulsion of molten metal									N/A
- Electric stre	ngth tests of	f equipment	after comp	letion of tes	sts	Aug.			A	N/A
Supplementa	ry information	on:				PEUE	4			EEE

	4.5	.5 TABLE: Thermal requirements							
	0	Test voltage(V):	90V60Hz	90V60Hz	264V50Hz	264V50Hz	_		
7	The state of the s	2000	(lable up)	(lable down)	(lable up)	(lable down)			



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		11/16	THE	-						1000
Ambient T <sub>min</sub> (°C):	40	.0	40.0		40.0	HETTELIN	40.0		_	
Ambient T <sub>max</sub> (°C)	40	.0	40.0		40.0		40.0	_	_	
maximum temperature T of part/at:				T(°	C)				allowed T <sub>max</sub> (°C	)
Inlet	66	.1	67.7	7	62.7	V	67.8		70	
Input wire	78	4	80.1		73.5		80.2		105	
RV1	81	2	83.3	3	81.0	FT.	83.4		85	1
CX1	86	.6	87.5	5	85.7		87.6	X	100	
LF2	110	).1	111.	1	109.9	)	111.2	2	130	1
PCB near BD1	102	2.0	102.	9	101.6	3	103.0	)	130	
PCB near Q1	113	3.2	114.	7	113.0		114.8	3	130	
US1 4W5	96	.9	98.3	3	95.7	151	98.5		100	
T1 winding	105	5.9	107.	2	107.4	1	107.3	3/	110	
T1 core	103	3.6	105.	5	104.4	1	105.6	5	110	
PCB near T1	99	.5	100.	2	99.9		100.4	14	130	111
CY1	100	0.8	105.	2	101.6	3 X	105.3	3	125	
PCB near DS1	98	.2	97.4	1	98.6	/	98.6		130	
CS3	88	.1	88.5	5	89.0	ELS	88.6		105	1
CS2	96	.8	96.4	1	97.6		97.1	X	105	
LS2	86	.5	87.3	3	87.8		87.4	50)	130	1
C1	96	.6	98.9	9	85.2		87.0		105	
DC cord	79	.9	81.6	6	80.9		81.7		105	
PCB near T1(management board)	102	2.1	101.	9	103.0	) 5/2	102.4	-	130	1
PCB near U1(management board)	62	.2	68.3	3	63.2		68.4	X	130	
PCB near Q1(management board)	79	.1	81.9		80.2		82.0		130	4
Enclosure inside above T1	76	.4	72.	LLE	75.4		76.8	-79	125	
Enclosure outside above T1	70	.9	63.9	)	70.2	X	70.7		95	
Enclosure inside under T1	82	.5	87.6	6	80.7	151	87.7		120	
Enclosure outside under T1	65	.7	76.7		65.9		76.8		95	
Temperature T of winding R1	(Ω)	R	2(Ω)	Т	(°C)	Al	lowed		Insulation	
The state of the s	()	1 12	-(/		( )	Tn	nax(°C)		class	
Certifico 700			$\times$			X	<u> </u>		-\/_	

Supplementary information:





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4.5.5	TABLE: Ball pressure test of thermoplastic parts	X	P
100	Allowed impression diameter (mm):	≤2 mm	
Part		Test temperature (°C)	Impression diameter (mm)
Transformer	bobbin	125	0.9
Supplement	ary information:		

			7 1		
4.7 TABL	E: Resistance to fir	e	1000	(एसम)	Р
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
-	A COLUMN TO THE PARTY OF THE PA	A CORD	- <i>F</i>	G84	- August
Supplementary info	ormation: see the ta	ble 1.5.1			

			/ \	
5.1.6 TA	BLE: touch curren	t measurement	ATTEN.	P
Condition	L→terminal A (mA)	N→terminal A (mA)	Limit (mA)	Comments
L/N to enclosure	0.005	0.005	0.25	
L/N to POE port	0.208	0.208	0.25	1019
L/N to LAN port	0.208	0.208	0.25	
L/N to earth	0.182	0.182	3.5	-
Supplementary info	ermation:	839	Z1779	ATEIR

5.2	TABLE: Electric strength tests, impul	surge tests	Р	
Test voltage a	pplied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage(V)	Breakdown
L to N (open F	71)	AC	1500	No
L to earth		AC	1500	No
L&N to enclos	ure	AC	3000	No
L&N to output	terminal	AC	3000	No
T1 pri. winding	g/core to sec. winding	AC	3000	No
1 layer insulation tape		AC	3000	No
Supplementar	y information:			£.

5.3 Certific JABLE: fault condition tests	Р
ambient temperature (°C)	_





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5			4/6/T		10000	18	ACC. I	NO. L3732		
	Power source for EUT: ManuFacturer, model/type, output rating:									
	Component no.  Output		Fault	Test voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation		
150			s-c	240	9h50min	F1	0.638	Maximum temperature measured: T1 Winding: 106.5°C T1 Core:103.7°C Ambient: 40.0°C no hazard.		
	Output	100	S-C	240	10min	F1	0.037	Unit Shutdown, recoverable, no hazard.		
	BD1	J	S-C	240	1s	F1	0	F1 opened immediately, no hazard		
	C1		s-c	240	1s	F1	0	F1 opened immediately, no hazard		
	Q1 Pin D-S	7.7.	s-c	240	1s	F1	0	F1 opened immediately, Q1 damaged, no hazard		
	Q1 Pin D-G		s-c	240	1s	F1	0	F1 opened immediately, Q1 damaged, no hazard		
	U1 Pin 1-2		S-C	240	10min	F1	0.036-0.125	Input & Output bouncing, recoverable, no hazard.		
	U1 Pin 3-4	711	s-c	240	10min	F1	0.074	Unit Shutdown, recoverable, no hazard.		
	U1 Pin 1		о-с	240	10min	F1	0.074-0.340	Input & Output bouncing, recoverable, no hazard.		
15m	T1 Pin 1-3	/	s-c	240	10min	F1	0.071-0.185	Input & Output bouncing, recoverable, no hazard.		
	T1 Pin 5-6		s-c	240	10min	F1	0.069-0.160	Input & Output bouncing, recoverable, no hazard.		
	T1 sec. pin		s-c	240	10min	F1	0.072-0.184	Input & Output bouncing, recoverable, no hazard.		
100	DS1	1	s-c	240	10min	F1	0.074-0.195	Input & Output bouncing, recoverable, no hazard.		
	CS3	X	S-C	240	10min	F1	0.074-0.126	Input & Output bouncing, recoverable, no hazard.		
_	RS7	Office	s-c	240	1h16min	F1	0.403	Input current reduced, no hazard.		
/	US2 PIN A-I	10	S-C	240	10min	F1	0.414	Input current reduced, recoverable, no hazard.		







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732

			J. L. A. T. M.			2002 070 20	
R17	S-C	240	2h44min	F1	0.618	Maximum temperature measured:	
		X			X	T1 Winding : 108.3°C	
				/		T1 Core :106.5°C	
		WSET"		40	527	Ambient: 40.0°C	
	\ /					no hazard.	

Supplementary information:

The unit passed 3000V hi-pot test between primary and accessible output connector after each single fault test above

- 1. In fault column, s-c=short-circuited, o-c=open-circuited, o-l=over-loaded.
- 2. During the fault condition each test where components damaged, the test was repeated three times with the same result obtained.
- 3. Transformer winding and core temperature limit is 165°C (175-10).

Supplementary information:

C.2	TABLE: transformers						Р
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)
T1 Primary/core to secondary	Reinforced Insulation	544	239	3000Vac	4.4	5.0	TIW
Loc. Tested insulation  T1 Primary/core to secondary  Reinforced Insulation				Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
				3000Vac	6.1	6.1	2 layers
Supplementary in	formation:	1	-744		FTTE	-	A79.41



Report No.: WSCT1511002847S Issued: November 18, 2015 Revised: None C.2 TABLE: transformers Construction/winding diagram: TOP PIN - 3TS TAPE N4(3-2) ¢0.35mm\*2p\*12TS -2TS TAPE E1 (6--\*)TO. 025\*7mm\*1. 2TS -2TS TAPE N3 (FA-7.8) ¢ 0.35mm\*2p\*14TS (TEX-E) -2TS TAPE N2 (5-6) ⊄ 0.35mm\*2P\*5TS -2TS TAPE N1(1-3) ¢0.35mm\*2p\*12TS BOBBIN :START □:TFL TUBE



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#### Appendix 1

Photo documentation



#### Photo 2

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#### PT-PSE106GW

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#### Photo 3

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#### Photo 4

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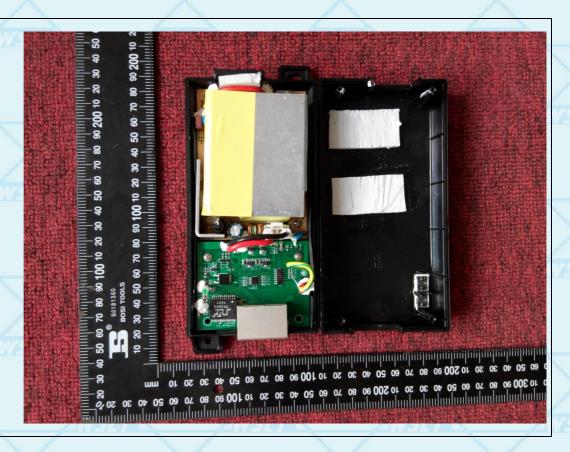
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#### Photo 6

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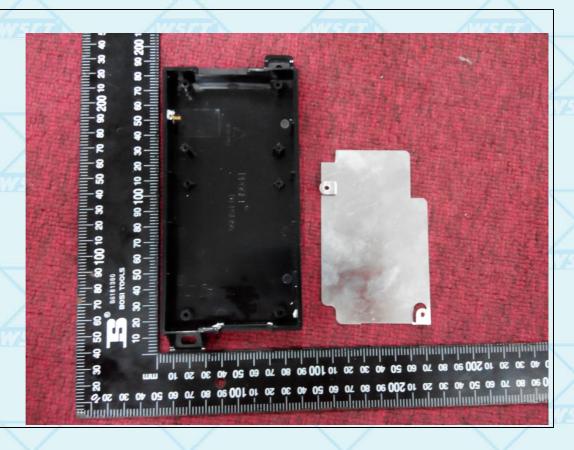
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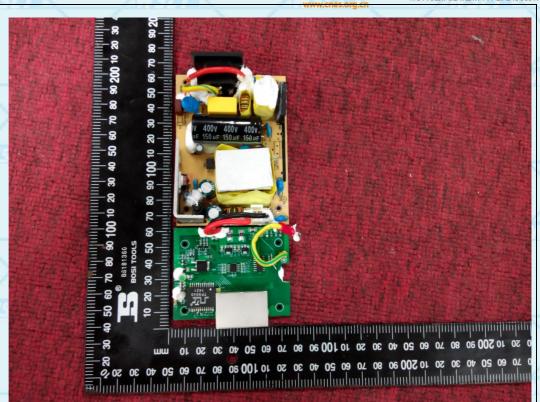
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#### Photo 7

View:

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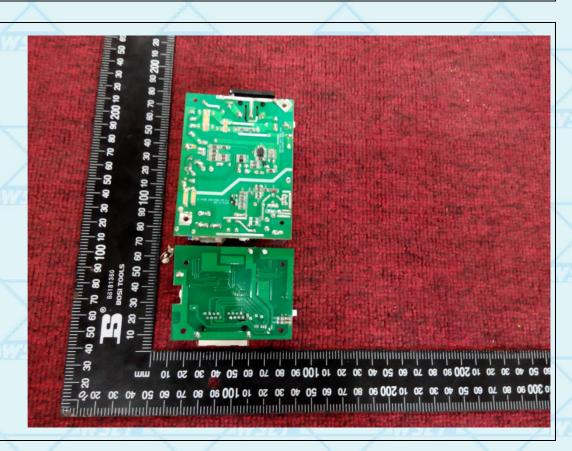
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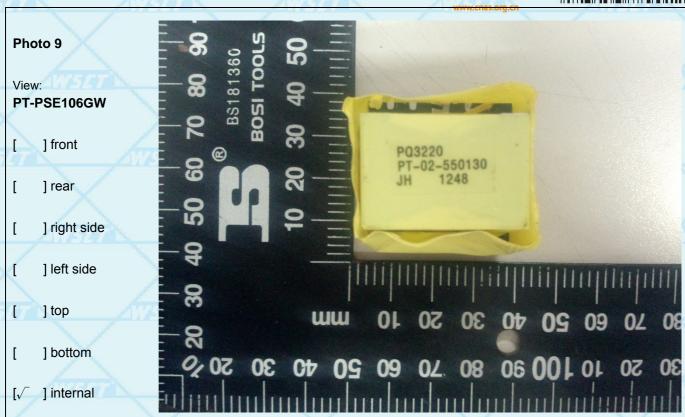


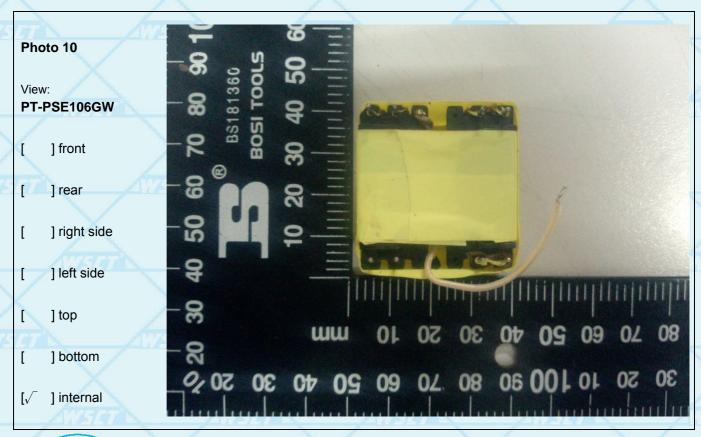


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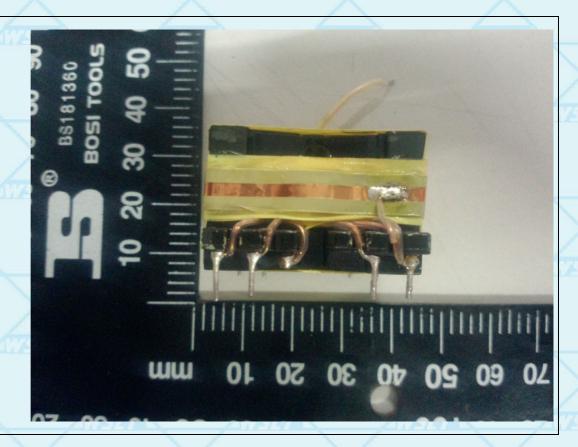
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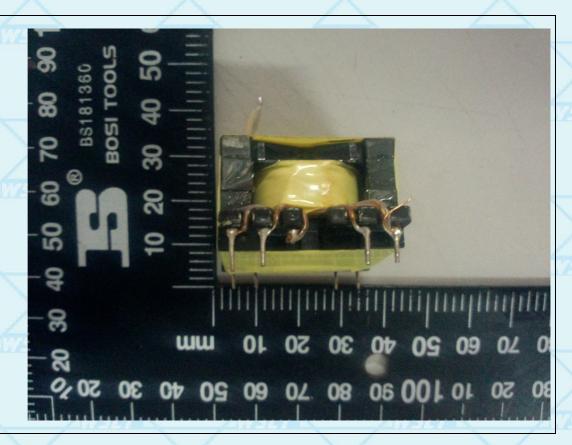
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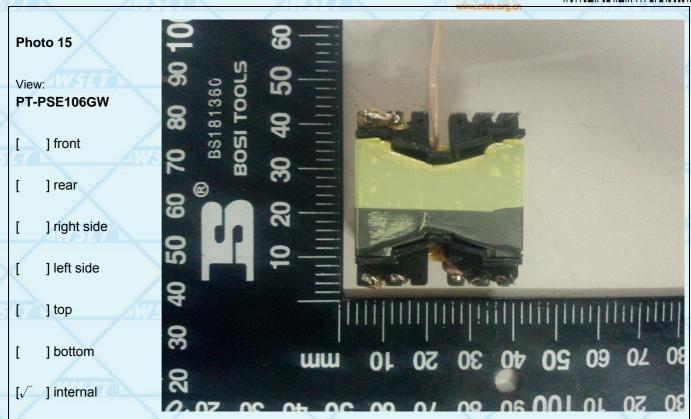






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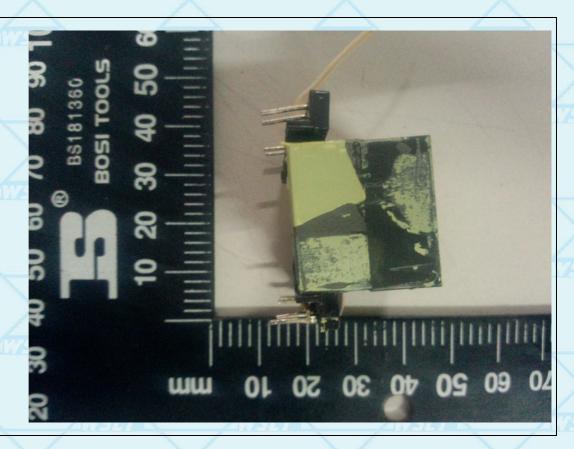
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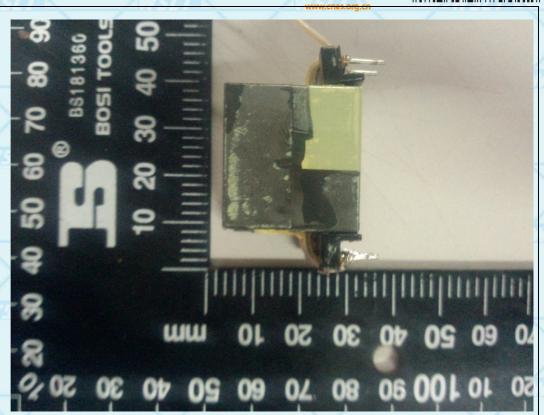
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#### Photo 17

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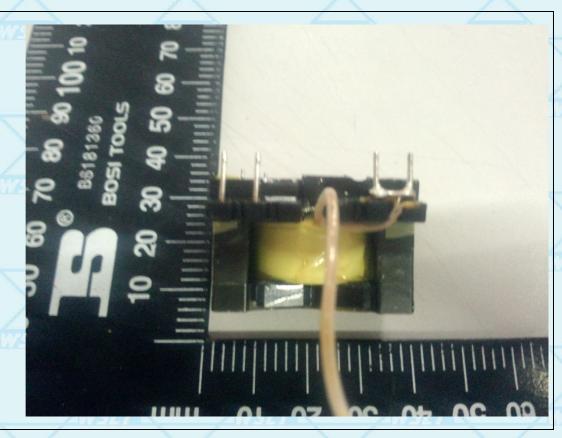
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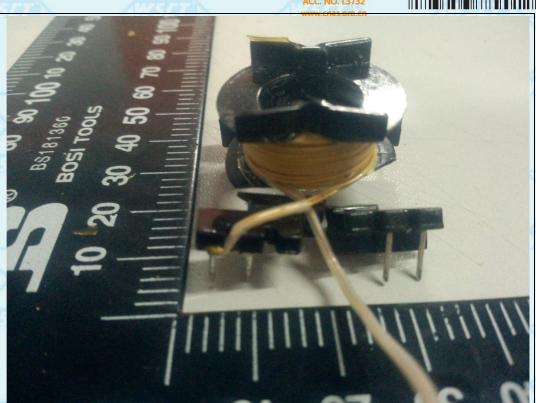
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#### **Appendix 2**

Equipment list

Equipment list						X		
	Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
	WSCT S-001	Torque Meter	LJ-1	LJ010407	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-002	Tumbling Barrel	GT-1	G011307	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-003	Stability Board	WD-1	W010507	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-004	Glow Wire Test Set	GTR-B	R023207	2015.08.19	2016.08.18	Guangzhou Zhilitong	3
	WSCT S-005	Needle Flame Test Set	ZY-Z	Y021207	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-006	Hot line Coil Resistance Meter	RC-2	200978	2015.08.19	2016.08.18	Hangzhou Weibo	
100	WSCT S-007	Automatic Frequency Converter	AN9703 0TS	069712327L	2015.03.05	2016.03.04	Ainuo	1
	WSCT S-008	Automatic Frequency Converter	AN9703 0TS	069712393L	2015.03.05	2016.03.04	Ainuo	V
	WSCT S-009	Insulation Resistance Tester	AN9671	079602136	2015.08.19	2016.08.18	Ainuo	1
	WSCT S-010	Digital Power Meter	PF210	199764	2015.03.05	2016.03.04	Hangzhou Weibo	V
	WSCT S-011	Digital Power Meter	8716C	870611014	2015.03.05	2016.03.04	Qingdao Qingzhi	V
	WSCT S-012	Data Acquisition/Switch Unit	Agilent/ 34970A	MY44035738	2015.08.19	2016.08.18	Agilent	V
	WSCT S-013	Desktop Multi Meter	GDM-82 45	CG810127	2015.03.05	2016.03.04	Good Will	
	WSCT S-014	Desktop Multi Meter	GDM-82 45	CG810128	2015.03.05	2016.03.04	Good Will	
	WSCT S-015	Temp.&Humi. Chamber	GDJS-5 00-40	0329	2015.07.22	2016.07.21	Guangzhou Gongwen	V
-	WSCT S-017	Pink Noise Generator	DF-168 1	DH06006133	2015.08.19	2016.08.18	Ningbo Zhongce	TA.
	WSCT S-018	Function Generator	GFG-82 16A	CH811153	2015.08.19	2016.08.18	Good Will	
	WSCT S-019	Digital LCR	YD2810 B	3104	2015.08.19	2016.08.18	Yangzi	
	WSCT S-020	Electronic weight	BCSS-3 kg	080556	2015.08.19	2016.08.18	Balance Electron	V
1	WSCT S-021	Audio Generator	GAG-80 9	EG850712	2015.08.19	2016.08.18	Good Will	
	WSCT S-022	Oven	101A-3	33016	2015.07.22	2016.07.21	Rongfeng	
	WSCT S-023	Digital Caliper	SD-089	300609	2015.03.05	2016.03.04	Shanghai	V
	WSCT S-024	Torque Driven	30LTDK	06K189	2015.03.05	2016.03.04	Nakamura	
1	WSCT S-025	tificom Oscilloscope	TDS301 2B	B042290	2015.07.22	2016.07.21	Tektronix	V
	WSCT S-026	Pull & Push Scale	FB-30B	192869	2015.07.22	2016.07.21	Imada	V



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	Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
	WSCT S-027	AC/DC Dielectric Resistance Test Meter	AN9634 H	069610322	2015.07.22	2016.07.21	Ainuo	<b>V</b>
>	WSCT S-028	Ground Bond Meter	AN9616 H	079602157	2015.03.05	2016.03.04	Ainuo	<b>√</b>
5	WSCT S-029	Leakage Current	AN9620 H	079601341	2015.03.05	2016.03.04	Ainuo	4
	WSCT S-030	DC Resistance Meter	YD2511	2073	2015.03.05	2016.03.04	Yangzi	
	WSCT S-031	Voltage Regulator	SVC-20 K	0502072	2015.03.05	2016.03.04	Yangzhou Huatai	<b>V</b>
	WSCT S-032	DC Power	TPR-30 10D	0384970	2015.08.19	2016.08.18	Longwei	
	WSCT S-033	Data Acquisition/ Switch Unit	Agilent/ 34970A	MY44020255	2015.08.19	2016.08.18	Agilent	V
	WSCT S-034	Plug Gauge	4P0533	4P0533	2015.08.19	2016.08.18	Jinghua	GIA
	WSCT S-035	Spring Hammer	CJ-3	C031207	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-036	Spring Hammer	CJ-3	C031307	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-037	Spring Hammer	CJ-3	C031107	2015.08.19	2016.08.18	Guangzhou Zhilitong	
	WSCT S-038	Ball Pressure	QY-1	Q010707	2015.08.19	2016.08.18	Guangzhou Zhilitong	V
	WSCT S-039	Stop Watch	PC396	101	2015.08.19	2016.08.18	Shenzhen Huibo	<b>√</b>
	WSCT S-040	Digital Multimeter	F-115C	93420101	2015.08.19	2016.08.18	Fluke	
	WSCT S-041	Digital Multimeter	F-115C	93420057	2015.08.19	2016.08.18	Fluke	A
	WSCT S-042	Test pin	TZ-31	V310307	2015.04.15	2016.04.14	Guangzhou Zhilitong	
C	WSCT S-043 WSCT	Test pin	TZ-32	V320307	2013.11.27	2016.11.26	Guangzhou Zhilitong	
	S-044 WSCT	Test probe	ST-1	S011107	2015.08.19	2016.08.18	Guangzhou Zhilitong Guangzhou	
	S-045 WSCT	Test pin	ZX-14	X140107	2013.11.27	2016.11.26	Zhilitong Guangzhou	
	S-046 WSCT	Ball Pressure	QY-1	Q012807	2015.04.15	2016.04.14	Zhilitong Guangzhou	
	S-047	Test finger	WZ-1	E010907	2015.04.15	2016.04.14	Zhilitong Guangzhou	
	WSCT S-048	Test finger	WZ-2	E020907	2015.04.15	2016.04.14	Zhilitong	41
	WSCT S-049	Test Flat pin	TZ-40	V400107	2014.11.27	2016.11.26	Guangzhou Zhilitong	
	WSCT S-050	Test Small pin	TZ-14	V140207	2013.11.27	2016.11.26	Zhilitong	
	WSCT   S-051	Test finger	TZ-12	H020507	2015.04.15	2016.04.14	Guangzhou Zhilitong	
	134	161						





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5		1727020	_	ALC: NO		ACC. NO. ESTAS			II
	Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not	
	WSCT S-052	Test finger	ZJ-1	Z011207	2015.04.15	2016.04.14	Guangzhou Zhilitong	1	
	WSCT S-054	Test finger	GZ-1	F011107	2015.08.19	2016.08.18	Guangzhou Zhilitong		
	WSCT S-055	Test finger	ZX-1	X010707-1	2015.08.19	2016.08.18	Guangzhou Zhilitong	$\checkmark$	
5	WSCT S-056	Test pin	ZX-1	X010707-2	2013.11.27	2016.11.26	Guangzhou Zhilitong	TANK.	
	WSCT S-057	Test pin	ZX-1	X010707-3	2015.08.19	2016.08.18	Guangzhou Zhilitong	√	
	WSCT S-062	Test hook	WSCTS 01	001	2015.08.19	2016.08.18	Shenzhen Hengxintai		
	WSCT S-063	Clock	8120	X	2015.08.19	2016.08.18	PanyuMingzh uxing	V	
4	WSCT S-064	Таре	7.5m	7025	2015.03.05	2016.03.04	Rongsheng	V	
	WSCT S-065	Data Acquisition/ Switch Unit	Agilent/ 34970A	MY44026389	2015.08.19	2016.08.18	Agilent		
	WSCT S-066	DC Power	RXN-30 10D	2008006875	2015.03.05	2016.03.04	Zhaoxin	2	
	WSCT S-067	Digital Power Meter	CP-280	280902	2015.08.19	2016.08.18	Chyng hong	-	
	WSCT S-068	Electronic scale	XJ-3K81 3 I	002	2015.03.05	2016.03.04	Yinuowei		
	WSCT S-069	Leakage Current	Simpso n 228	10-866030	2015.04.21	2016.04.20	USA Simpson	$\sim$	
	WSCT S-070	Steel Ball	GQ-1	GQ011307	2015.07.22	2016.07.21	Guangzhou Zhilitong	$\sqrt{}$	
	WSCT S-071	Insulation Comparison Tester		002	2015.08.19	2016.08.18	Shenzhen Hengxintai	<b>V</b>	f
	WSCT S-072	Touch Current	420B	0706GD47	2015.08.19	2016.08.18	CEPREI		
	WSCT S-073	Digital Power Meter	PF9800	709393	2015.03.05	2016.03.04	YUANFANG		
	WSCT S-074	Digital Power Meter	PF9800	709387	2015.07.22	2016.07.21	YUANFANG		5
	WSCT S-075	Digital Power Meter	PF9800	709387	2015.07.22	2016.07.21	YUANFANG		
	WSCT S-078	Metal Rod	W507	0021877	2015.08.19	2016.08.18	7514		
1	WSCT S-081	Electronic Load	IT8512	0020021863 76001076	2015.03.05	2016.03.04	ITECH Eletronics	V	
7	WSCT S-082	Electronic Load	IT8512	0020021863 76001077	2015.03.05	2016.03.04	ITECH Eletronics	V	
	WSCT S-087	Oven	101A-3	32232	2015.08.19	2016.08.18	SHENZHEN RONGFENG		
	WSCT S-088	Steel Ball	GQ-2	0021486	2015.08.19	2016.08.18	Zhilitong		
	WSCT S-090	Weight	M1-35	M1-35	2014.02.11	2017.02.10	Penglaishi Shuiling		
>	WSCT - S-091	tification Weight	M1-30	M1-30	2014.02.11	2017.02.10	Penglaishi Shuiling		
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	Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
	WSCT S-092	Weight	M1-20	M1-20	2014.02.11	2017.02.10	Penglaishi Shuiling	1
	WSCT S-093	Weight	M1-10	M1-10	2014.02.11	2017.02.10	Penglaishi Shuiling	
	WSCT S-094	Weight	M1-05	M1-05	2014.02.11	2017.02.10	Penglaishi Shuiling	
	WSCT S-095	Weight	M1-01	M1-01	2014.02.11	2017.02.10	Penglaishi Shuiling	
	WSCT S-096	Digital Power Meter	8705B	870906342	2015.08.19	2016.08.18	Qingdao Qingzhi	
	WSCT S-097	Digital Power Meter	8705B	870906341	2015.08.19	2016.08.18	Qingdao Qingzhi	A
	WSCT S-098	Digital Power Meter	8716C	870906281	2015.08.19	2016.08.18	Qingdao Qingzhi	
	WSCT S-099	Digital Power Meter	8716C	870906280	2015.08.19	2016.08.18	Qingdao Qingzhi	
	WSCT S-100	Data Acquisition/Switch Unit	34970A	MY44047073	2015.08.19	2016.08.18	Agilent	
	WSCT S-101	Data Acquisition/Switch Unit	34970A	MY44046852	2015.08.19	2016.08.18	Agilent	
	WSCT S-102	ELectronic Load	IT8512	0020021863 76001048	2015.08.19	2016.08.18	ITECH Eletronics	
	WSCT S-103	ELectronic Load	IT8512	0020021863 74001002	2015.08.19	2016.08.18	ITECH Eletronics	7
_	WSCT S-105	Probe	TZ-60	V600108	2015.08.19	2016.08.18	<del>\</del> \	
_	WSCT S-106	Probe	TZ-60	V600208	2015.08.19	2016.08.18	77.	1
	WSCT S-107	Oscilloscope Carbon	P310	020213402	2015.07.22	2016.07.21	Tektronix	
	WSCT S-108	Oscilloscope Carbon	TX3125	020213401	2015.07.22	2016.07.21	Tektronix	V
	WSCT S-109	Magnifier	CT-200 U	AWATTA	2015.08.19	2016.08.18		
	WSCT S-110	digital power  Meter	WT210	91LA25633	2015.08.19	2016.08.18	YOKOGAWA	
	WSCT S-112	Salt mist tester	GL-015	8930148	2014.12.25	2015.12.24	GOTO	1
	WSCT S-113	Tracking Index Tester	HD-NH-	11012725	2015.01.03	2016.01.02	HongDu	
	WSCT S-194		DTE-D2 00	<del></del>	2015.08.19	2016.08.18	Huangcetong	V
	WSCT P-001	Breaking Capacity & Normal Operation Tester	HD-LL-2	11012730	2015.08.19	2016.08.18	HongDu	
	WSCT P-002	Pure Resistance Load Power Supplier	HD-RL- 40B	11012727	2015.08.19	2016.08.18	HongDu	1
	WSCT P-003	Voltage drop Tester	HD-YL- 2	11012728	2015.08.19	2016.08.18	HongDu	
1	WSCT P-004	Touch polarity tester	HD-303 AX	11012734	2015.08.19	2016.08.18	HongDu	
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	Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
	WSCT P-006	Dumbbell-knife	С	- - -	2015.08.19	2016.08.18	Zhilitong	1
	WSCT P-007	Dumbbell-knife	D		2015.08.19	2016.08.18	Zhilitong	
-	WSCT P-008	Soft cable's flexibility tester	HD-730 2	11012729	2015.08.19	2016.08.18	HongDu	
	WSCT P-009	Image measurement instrument	YVM201 0VT	8660	2015.08.19	2016.08.18	DONGGUAN YUANXIN	7.4
	WSCT P-010	Cable retention tester	JN-BCL- 2099	BCL-2099-11 76	2015.08.19	2016.08.18	JEN	
	WSCT P-011	Plug Bending Tester	HD-887 0	11012726	2015.08.19	2016.08.18	HongDu	_/
	WSCT P-012	testing under high temperature & pressure equipment	HD-PHT -1	001	2015.08.19	2016.08.18	HongDu	
	WSCT P-013	Heat cable distortion tester	110462	HD-8120	2015.08.19	2016.08.18	HongDu	ET \