

CE-LVD TEST REPORT

For ARTNET DMX

Model No.: SSL-C8U, SSL-CR10A

Applicant: SUN STAGE LIGHT CO., LIMITED

No.63, Zhugang Road, Shijing Town, Baiyun District, Guangzhou

City, China.

Manufacturer: SUN STAGE LIGHT CO., LIMITED

No.63, Zhugang Road, Shijing Town, Baiyun District, Guangzhou

City, China.

Prepared By: Global-Standard Testing Service Co., Ltd.

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Report Number: F00.14.0030S

Issued Date: February 15, 2017

Date of Report: February 15, 2017

Note:

- 1. The test data and result is based on the tested sample only.
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TEST REPORT EN 60950-1

Information Technology Equipment including-Safety

Part 1: General equipments

Part 1: General equipments		
Report reference No	F00.14.0030S	
Testing laboratory:	Global-Standard Testing Service Co., Ltd.	
Location:	Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An district, Shenzhen, Guangdong, China.	
Applicant:	SUN STAGE LIGHT CO., LIMITED	
Address::	No.63, Zhugang Road, Shijing Town, Baiyun District,	
, add occ	Guangzhou City, China.	
Manufacturer:	SUN STAGE LIGHT CO., LIMITED	
Address:	No.63, Zhugang Road, Shijing Town, Baiyun District,	
Address	Guangzhou City, China.	
Standards:		
Procedure deviation:	N/A	
Non-standard test method N/A		
Type of test equipment:	ARTNET DMX	
Trade mark:	Sunstage	
Model/Type designation:	SSL-C8U, SSL-CR10A	
Rating:	85-264VAC, 47-63Hz,0.1A, Max.8W.	
Copyright blank test report:	Global-Standard Testing Service Co., Ltd.	
Test item particulars:	N/A	
Equipment mobility:	Portable equipment	
Operating Condition	Continuous	
Tested for IT power systems:	No	
IT testing, phase-phase voltage (V):	N.A.	
Class of equipment:	Class II equipment	
Mass of equipment (Kg)	2.21kg	
Protection against ingress of water:	IP20	



Possible test case verdicts :	
test case does not apply to the test object	N(/A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)
Name and address of the testing laboratory :	Global-Standard Testing Service Co., Ltd. Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An district, Shenzhen, Guangdong, China.
Tested by : Sean Xiao / Engire Name/title	Date
Reviewed by : Reviewed by :	
Approved by : Sometime	VED S February 15, 2017 Date



General remarks:

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

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

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

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

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Until otherwise specified, all tests are done under normal ambient condition 25°C±10°C, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.

Attached with:

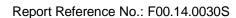
Attachment - A. Photo Documentation

The test samples were pre-production samples without serial numbers. This report shall not be reproduced except in full without the written approval of the testing laboratory.

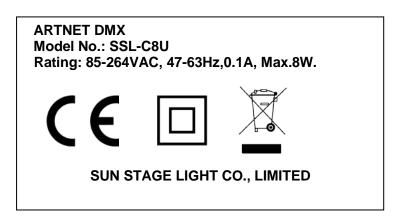
The maximum ambient is 40°C.

Models SSL-C8U, SSL-CR10A have been selected for testing, and unless otherwise specified ,the model SSL-C8U was tested.

The test result presented in this report relate only to the object tested. The samples tested comply with the requirements of this standard.







Remark:

- The above copy of marking plates as an example, All the other models will have the same marking plate except the difference of model number, input connnection method and output rating only.
- -The above markings are the minimum requirements required by the safety standard. For the final productions samples, the additional markings which do not give rise to misunderstanding may be added.
- -The dimension for height of CE mark is at least 5mm height and the height of WEEE directive mark is at least 7mm height.



EN 60950-1			
Clause	Requirement	Result - Remark	Verdict
1	GENERAL		Р
			T
1.5	Components		Р
1.5.1	General		Р
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Р
1.5.2	Evaluation and testing of components		Р
1.5.3	Thermal controls	No thermal controls.	N/A
1.5.4	Transformers	Transformers used are suitable for their intended applications and comply with relevant parts of this standard and particularly Annex C, see Annex C – Transformers.	P
1.5.5	Interconnecting cables		Р
1.5.6	Capacitors bridging insulation		Р
1.5.7	Resistors bridging insulation	No such resistors	N/A
1.5.7.1	Resistors bridging functional, basic or suppementary insulation		N/A
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		N/A
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of function insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR	No such construction	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	No such construction	N/A
1.6	Power interface		Р
1.6.1	AC power distribution systems	TN; IT for Norway only.	P
1.6.2	Input current	(see appended table 1.6.2)	Р
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1



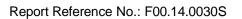


	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
1.6.4	Neutral conductor	The neutral conductor is regarded as line conductor	Р
1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
	Rated voltage(s) or voltage range(s) (V):	AC85-264V	Р
	Symbol for nature of supply, for d.c. only:	Mains from AC source	N/A
	Rated frequency or rated frequency range (Hz):	50/60Hz	Р
	Rated current (mA or A):	0.1A	Р
	Manufacturer's name or trademark or identification mark:	See copy of marking label	Р
	Type/model or type reference:	See copy of marking label	Р
	Symbol for Class II equipment only:	Double square symbol provided.	Р
	Other marking and symbols:	See copy of marking label	Р
1.7.2	Safety instructions and marking	Operating Instructions provided to the operator, containing necessary instructions and caution information. English version checked.	P
1.7.2.1	General	"User Manual" provided that contains information regarding the maximum ambient temperature	Р
1.7.2.2	Disconnect device	Direct plug-in equipment	N/A
1.7.2.3	Overcurrent protective device	Direct plug-in equipment	N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool	No operator accessible area that needs to be accessed by the use of a tool	N/A
1.7.2.6	Ozone	Not such equipment	N/A
1.7.3	Short duty cycles	Continuous operation.	N/A
1.7.4	Supply voltage adjustment:		N/A
	Methods and means of adjustment; reference to installation instructions:		N/A
1.7.5	Power outlets on the equipment:	No standard power outlet	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N/A





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Clause	Requirement	Result - Remark	Verdict
1.7.7	Wiring terminals	See below.	N/A
1.7.7.1	Protective earthing and bonding terminals:	Class II equipment	N/A
1.7.7.2	Terminal for a.c. mains supply conductors	Direct plug-in equipment	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	No d, c mains supply	N/A
1.7.8	Controls and indicators	No safety related switches or indicators.	N/A
1.7.8.1	Identification, location and marking:		N/A
1.7.8.2	Colours:		N/A
1.7.8.3	Symbols according to IEC 60417:		N/A
1.7.8.4	Markings using figures:		N/A
1.7.9	Isolation of multiple power sources:	Only one supply from the mains.	N/A
1.7.10	Thermostats and other regulating devices	No such components provided.	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 15sec. And then again for 15sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label.The marking on the label did not fade.There was no curling and lifting of the label edge.	P
1.7.12	Removable parts	No removable part.	N/A
1.7.13	Replaceable batteries	No battery provided	N/A
	Language(s)		
1.7.14	Equipment for restricted access locations	Not intended for use in restricted access locations	N/A
2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards	3	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.	Р
2.1.1.1	Access to energized parts	See above	Р
	Test by inspection:	See above	Р





	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
	Test with test finger:	See above	Р
	Test with test pin:	See above	Р
	Test with test probe:	See above	Р
2.1.1.2	Battery compartments:	No TNV circuits.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area	N/A
	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation		
2.1.1.4	Access to hazardous voltage circuit wiring	Not accessible to operator.	N/A
2.1.1.5	Energy hazards:	No energy hazard. (see appended table 2.1.1.5)	Р
2.1.1.6	Manual controls	No manual controls	N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V);time-constant(s):	(see appended table 2.1.1.7)	_
2.1.1.8	Energy hazards-d.c.mains supply	Connected to a.c mains.	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 to be installed in a restricted access location.	N/A
	1		
2.2	SELV circuits		Р
2.2.1	General requirements	The secondary circuits were tests as SELV .See 2.2.1 to 2.2.4.	Р
2.2.2	Voltages under normal conditions (V):	Between any conductors of the SELV circuits 42.4 V peak or 60 Vd.c. are not exceeded.	Р



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Clause	Requirement	Result - Remark	Verdict	
2.2.3	Voltages under fault conditions (V):	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120V d.c. were not exceeded within 0.2 seconds and limits 42.4V peak and 60V d.c. were not exceeded for longer than 0.2 seconds.	P	
2.2.4	Connection of SELV circuits to other circuits:	See 2.2.2 and 2.2.3.	Р	
2.3	TNV circuits		N/A	
2.3.1	Limits	No TNV circuits	N/A	
	Type of TNV circuits:			
2.3.2	Separation from other circuits and from accessible parts		N/A	
2.3.2.1	General requirements		N/A	
2.3.2.2	Protection by basic insulation		N/A	
2.3.2.3	Protection by earthing		N/A	
2.3.2.4	Protection by other constructions:		N/A	
2.3.3	Separation from hazardous voltages		N/A	
	Insulation employed:			
2.3.4	Connection of TNV circuits to other circuits		N/A	
	Insulation employed:			
2.3.5	Test for operating voltages generated externally		N/A	
			Т	
2.4	Limited current circuits	Г	Р	
2.4.1	General requirements	(see appended table 2.4.2)	Р	
2.4.2	Limit values	(see appended table 2.4.2)	Р	
	Frequency (Hz)		_	
	Measured current (mA):	See appended table 2.4.2		
	Measured voltage (V):	See appended table 2.4.2		
	Measured circuit capacitance (Nf or μF):			
2.4.3	Connection of limited current circuits to other circuits	The limited current circuit is supplied from SELV circuits	Р	
2.5	Limited power sources		Р	



2.6.4

2.6.4.1

2.6.4.2

2.6.4.3

2.6.5

2.6.5.1

2.6.5.2

Terminals

Protective earthing and bonding terminals

Rated current (A), type and nominal thread diameter (mm).....

from protective bonding conductors

and protective bonding conductors

Integrity of protective earthing

Interconnection of equipment

Separation of the protective earthing conductor

Components in protective earthing conductors

General

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	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
			·
	a)Inherently limited output		N/A
	b)Impedance limited output		N/A
	c)Regulating network limited output under normal operating and single fault condition	See appended table 2.5	Р
	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	_
	Current rating of overcurrent protective device (A)		
2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class II equipment	N/A
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG:		_
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm2), AWG:		_
	Protective current rating(A), cross-sectional area(mm2), AWG:		N/A
2.6.3.4	Resistance (Ω) of earthing conductors and their terminations, resistance (Ω) voltage drop (V) test current (A) , duration (M) .		N/A
2.6.3.5	Colour of insulation:		N/A
			_

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N/A

N/A

N/A

N/A

N/A

N/A

N/A



2.8.6

Overriding

Report Reference No.: F00.14.0030S

	EN 60950-1			
Clause	Requirement	Result - Remark	Verdict	
2.6.5.3	Disconnection of protective earth		N/A	
2.6.5.4	Parts that can be removed by an operator		N/A	
2.6.5.5	Parts removed during servicing		N/A	
2.6.5.6	Corrosion resistance		N/A	
2.6.5.7	Screws for protective bonding		N/A	
2.6.5.8	Reliance on telecommunication network or cable distribution system	No TNV	N/A	
2.7	Overcurrent and earth fault protection in primary c	ircuits	Р	
2.7.1	Basic requirements	The built-in device fuse provides overcurrent protection. Pluggable equipment type A Equipment relies on 16A rated fuse or circuit breaker of the building installation for short circuit and earth fault.	P	
	Instructions when protection relies on building installation	Pluggable equipment type A Instruction regarding socket outlet provided in manual.	Р	
2.7.2	Faults not simulated in 5.3.7	Considered.	Р	
2.7.3	Short-circuit backup protection	Pluggable equipment type A, the building installation is considered as providing short circuit protection. Additionally verification by short / abnormal tests	Р	
2.7.4	Number and location of protective devices:	Single-phase; one fuse is located in primary circuit.	Р	
2.7.5	Protection by several devices		N/A	
2.7.6	Warning to service personnel:		N/A	
2.8	Safety interlocks		N/A	
2.8.1	General principles	No safety interlocks.	N/A	
2.8.2	Protection requirements		N/A	
2.8.3	Inadvertent reactivation		N/A	
2.8.4	Fail-safe operation		N/A	
2.8.5	Moving parts		N/A	

N/A





2.10.2

2.10.2.1

2.10.2.2

General

RMS working voltage

Determination of working voltage

	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
2.8.7	Switches and relays		N/A
2.8.7.1	Contact gaps (mm):		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A
2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	Р
2.9.2	Humidity conditioning	Humidity treatment conducted for 48h.	Р
	Relative humidity (%),temperature (°C) :	93%R.H, 30°C	_
2.9.3	Grade of insulation	Kind of insulation and working voltage considered.	Р
2.9.4	Separation from hazardous voltages	The secondary circuit is from hazardous voltages by reinforce insulation.	Р
	Method(s) used:	Method 1 used.	
	Tai		1 _
2.10	Clearances, creepage distances and distances thr	_	Р
2.10.1	General	Adequate dimensioning confirmed. Overvoltage category I used to determine clearances in secondary circuits.	P
2.10.1.1	Frequency:		Р
2.10.1.2	Pollution degrees:	2	Р
2.10.1.3	Reduced values for functional insualtion	See 5.3.4	N/A
2.10.1.4	Intervening unconnected conductive parts	No such part	N/A
2.10.1.5	Insulation with varying dinensions	No such transformer used	N/A
2.10.1.6	Special separation requirements	No TNV	N/A
2.10.1.7	Insulation in circuits generating starting pulses	No such circuit	N/A
		†	1

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Ρ

Ρ

The r.m.s. and the peak

See above

voltages were measured.





	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
2.10.2.3	Peak working voltage		Р
2.10.3	Clearances	(see appended table 2.10.3 and 2.10.4)	Р
2.10.3.1	General	Comply with 2.10.3.1 and 2.10.3.2, Annex G not applied.	Р
2.10.3.2	Mains transient voltages	See below	Р
	a)AC mains supply:	Normal transient voltage considered(See appended table 2.10.3 and 2.10.4)	Р
	b)Earthed d.c.mains supplies	AC mains	N/A
	c)Unearthed d.c.mains supplies		N/A
	d)Battery operation		N/A
2.10.3.3	Clearances in primary circuits	Annex F and minimum clearances considered.(see appended table 2.10.3 and 2.10.4)	Р
2.10.3.4	Clearances in secondary circuits	See 5.3.4	Р
2.10.3.5	Clearances in circuits having starting pulses	No such circuit	N/A
2.10.3.6	Transients from a.c.mains supply	See 2.10.3.2	N/A
2.10.3.7	Transients from d.c.mains supply		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	No TNV circuit	N/A
2.10.3.9	Measurement of transient voltage levels	See 2.10.3.6	N/A
	a)Transients from a mains supply		N/A
	For an a.c.mains supply		N/A
	For an d.c.mains supply		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances	See below	Р
2.10.4.1	General	(see appended table 2.10.3 and 2.10.4)	
2.10.4.2	Material group and comparative tracking index		Р
	CTI test	CTI rating for all materials of min.100.	Р
2.10.4.3	Minimum creepage distance	(see appended table 2.10.3 and 2.10.4)	Р
2.10.5	Solid insulation		Р
2.10.5.1	General	See below	Р





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Clause	Requirement	Result - Remark	Verdict
2.10.5.2	Distances through insulation	Enclosure provided(see appended table 2.10.5)	Р
2.10.5.3	Insulating compound as soild insulation	No such component	N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5	Cemented joints	No such construction	N/A
2.10.5.6	Thin sheet material-General		Р
2.10.5.7	Separable thin sheet material	See above	Р
	Number of layers (pcs)		_
2.10.5.8	Non-separable thin sheet material	Not such material	N/A
2.10.5.9	Thin sheet material- standard test procedure		Р
	Electric strength test		_
2.10.5.10	Thin sheet material- alternative test procedure		N/A
	Electric strength test		_
2.10.5.11	Insulation in wound components	Approved source of triple insulated wire used in transformer secondary winding for reinforced insulation	Р
2.10.5.12	Wire in wound components	See above	Р
	Working voltage	276V, 424V	Р
	a)Basic insulation not under stress		N/A
	b)Basic,supplemetary,reinforced insulation		N/A
	c)Compliance with Annex U	Approved source of triple insulated wire used in transformer secondary winding for reinforced insulation	Р
	Two wires in contact inside wound component;angle between 45°C and90°C	By insulation tape	Р
2.10.5.13	Wire with solvent-based enamel in wound components	No such construction	N/A
	Electric strength test		
	Routine test		N/A
2.10.5.14	Additional insulation in wound components	No such construction	N/A
	Working voltage		N/A
	-Basic insulation not under stress		N/A
	Supplemetary,reinforced insulation:		N/A

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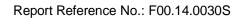


EN 60950-1			
Clause	Requirement	Result - Remark	Verdict
2.10.6	Construction of printed insulation	See below	N/A
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.6.2	Coated printed boards	No coated printed boards.	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	No multi-layer PCBs provided	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	No multi-layer PCBs provided	N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations	(see appended table 2.10.3 and 2.10.4)	Р
2.10.8	Tests on coated printed boards and coated components	No such boards and components	N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for pollution degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts	No hermetically sealed component	N/A
3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection	Sufficient cross sectional area of internal wiring.	Р
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges and heat sinks that could damage the insulation and cause hazard.	Р





	EN 60950-1		
Clause	Requirement	Result - Remark	Verdict
			<u> </u>
3.1.3	Securing of internal wiring	Internal wires with basic insulation are routed so that they are not close to any live bare components. Wires are adequately fixed to prevent excessive strain or damage of the conductors' insulation.	Р
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage. (see appended table 5.2)	P
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections		N/A
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors	All conductors are reliable secured.	Р
	10 N pull test	Force of 10N applied to the termination points of the conductors.	Р
3.1.10	Sleeving on wiring		Р
3.2	Connection to a mains supply		N/A
3.2.1	Means of connection:		N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter (mm) of cable and conduits		_
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Туре:		N/A
	Rated current (A), cross-sectional area (mm²), AWG:		_

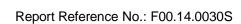




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Clause	Requirement	Result - Remark	Verdict
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief	No power cord	N/A
	Mass of equipment (kg), pull (N):		
	Longitudinal displacement (mm):		
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	Diameter or minor dimension D (mm); test mass (g):		_
	Radius of curvature of cord (mm):		
3.2.9	Supply wiring space	Not permanent connection or non-detachable power cord type	N/A
3.3	Wiring terminals for connection of external conduction	etors	N/A
3.3.1	Wiring terminals		N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		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		N/A
	Rated current (A), type and nominal thread diameter (mm)		_
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
3.4	Disconnection from the mains supply		N/A
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles-single-phase and d.c. equipment		N/A
3.4.7	Number of poles-three-phase equipment	Single phase equipment	N/A



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Clause	Requirement	Result - Remark	Verdict
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment	No interconnections using hazardous voltages.	N/A
3.4.11	Multiple power sources	Only one supply connection provided.	N/A
3.5	Interconnection of equipment		Р
3.5.1	General requirements	SELV circuits to SELV circuits	P
3.5.2	Types of interconnection circuits:	SELV circuits	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection	N/A
3.5.4	Data ports for additional equipment	No such ports	N/A
4	PHYSICAL REQUIREMENTS		Р
 4.1	Stability		' Р
	Angle of 10°	Stable mechanical construction, equipment does not overbalance when tilted to an angle of 10° from its normal upright position.	Р
	Test: force (N)	Not a floor-standing unit.	N/A
4.2	Mechanical strength		Р
4.2.1	General	See below. After tests, unit	 Р
4.2.1	General	comply with 2.1.1, 2.6.1, 2.10 and 4.4.1	Г
4.2.2	Steady force test, 10 N	Applied to relevant parts, no hazard.	Р
4.2.3	Steady force test, 30 N	No internal enclosure	N/A
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No engery or other hazards.	Р
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height(mm)	No hazard as result from drop test	N/A





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Clause	Requirement	Result - Remark	Verdict
4.2.7	Stress relief test	After 7h at 71°C and cooling down to room temperature, no shrinkage, distortion or loosing of enclosure parts was noticeable on the unit.	Р
4.2.8	Cathode ray tubes	No CRT provided	N/A
	Picture tube separately certified:		N/A
4.2.9	High pressure lamps	No high pressure lamps provided	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	Direct plug-in equipment	N/A
4.3	Design and construction		Р
4.3.1	Edges and corners	All edges and corners are rounded and / or smoothed.	Р
4.3.2	Handles and manual controls; force (N):	No such part	N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts	Electrical and mechanical connections can be expected to withstand usual mechanical stress.	Р
4.3.5	Connection of plugs and sockets	In operator and service areas, mismating prevented by incompatible form or location.	Р
4.3.6	Direct plug-in equipment		Р
	Torque:	0.03Nm≤0.25NM	
	Compliance with the relevant mains plug standard		Р
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		N/A
	-Overcharging of a rechargeable battery		N/A
	-Unintentional charging of a non-rechargeable battery		N/A
	-Reverse charging of a rechargeable battery		N/A
	-Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	Insulation not in contact with oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N/A



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Clause	Requirement	Result - Remark	Verdict
4.3.11	Containers for liquide or goods	No container for liquid or goo	NI/A
	Containers for liquids or gases	No container for liquid or gas.	N/A
4.3.12	Flammable liquids:	No flammable liquids present.	N/A
	Quantity of liquid (I):		N/A
1010	Flash point (°C)	N. P. C. I.	N/A
4.3.13	Radiation	No radiation hazards.	N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation	No ionizing radiation.	N/A
	Measured radiation (pA/kg)		
	Measured high-voltage (kV)		_
	Measured focus voltage (kV)		_
	CRT markings		_
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet (UV) radiation.	N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:		N/A
4.3.13.5	Laser (including LEDs)	No laser.	N/A
	Laser class		
4.3.13.6	Other types		N/A
	Ta		NI/A
4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No hazardous moving part	N/A
4.4.2	Protection in operator access areas		N/A
4.4.3	Protection in restricted access locations		N/A
4.4.4	Protection in service access areas		N/A
4.5	Thermal requirements		Р
4.5.1	General	See below	Р
4.5.2	Temperature tests	(see appended table 4.5.2)	Р
	Normal load condition per Annex L:	(see appended table 1.6.2)	
4.5.3	Temperature limits for materials	(see appended table 4.5.2)	Р
4.5.4	Touch Temperature limits	(see appended table 4.5.2)	Р
4.5.5	Resistance to abnormal heat	(see appended table 4.5.5)	Р



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Clause	Requirement		Result - Remark	Verdict

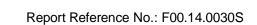
4.6	Openings in enclosures	N/A
4.6.1	Top and side openings	N/A
	Dimensions (mm):	_
4.6.2	Bottoms of fire enclosures	N/A
	Construction of the bottom, dimensions (mm):	_
4.6.3	Doors or covers in fire enclosures	N/A
4.6.4	Openings in transportable equipment	N/A
4.6.4.1	Constructional design measures	N/A
	Dimensions (mm)	_
4.6.4.2	Evaluation measures for larger openings	N/A
4.6.4.3	Use of metallized parts	N/A
4.6.5	Adhesives for constructional purposes	N/A
	Conditioning temperature (°C), time (weeks):	_

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Materials with the required flammability classes are used. Safety relevant components used within their specified rating. Electrical parts are not likely to ignite nearby materials. Temperatures see 4.5.2.	Р
	Method 1, selection and application of components wiring and materials	(see appended table 1.5.1)	Р
	Method 2, application of all of simulated fault condition tests	See below.	N/A
4.7.2	Conditions for a fire enclosure		Р
4.7.2.1	Parts requiring a fire enclosure		Р
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Р
4.7.3.1	General	Parts were mounted on V-1or better PCB Materials with the required flammability classes are used.	Р
4.7.3.2	Materials for fire enclosures	Fire enclosure is V-0 material.	Р





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Clause	Requirement	Result - Remark	Verdict
4.7.3.3	Materials for components and other parts outside fire enclosures	No part outside fire enclosure.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2, HF-2 or better. Insulating material consists of PVC.	Р
4.7.3.5	Materials for air filter assemblies	No air filters provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage components provided.	N/A
5	ELECTRICAL REQUIREMENTS AND SIMULATE	D ADMODMAL CONDITIONS	Р
5.1		ED ABNORIVIAL CONDITIONS	P
5.1.1	Touch current and protective conductor current General	Measurement circuit according	P
5.1.1	General	to annex D used as described in cl. 5.1.2 to 5.1.7	Г
5.1.2	Configuration equipment under test (EUT)	EUT has only one mains connection	Р
5.1.2.1	Single connection to an a.c.mains supply		Р
5.1.2.2	Redundant multiple connection to an a.c.mains supply		N/A
5.1.2.3	Simultaneous multiple connection to an a.c.mains supply		N/A
5.1.3	Test circuit	Per figure 5A.	Р
5.1.4	Application of measuring instrument	Per Annex D.	Р
5.1.5	Test procedure		Р
5.1.6	Test measurements		Р
	Supply voltage (V)::	(see appended table 5.1.6)	_
	Measured touch current (mA):	(see appended table 5.1.6)	
	Max. allowed touch current (mA):	0.25mA	_
	Measured protective conductor current (mA):		_
	Max. allowed protective conductor current (mA):		_
5.1.7	Equipment with touch current exceeding 3.5 mA	Neither stationary permanently connected equipment nor stationary pluggable equipment type B.	N/A
5.1.7.1	General		N/A





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Clause	Requirement	Result - Remark	Verdict
5.1.7.2	Simultaneous multiple connection to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	No TNV	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N/A
	Supply voltage (V):		
	Measured touch current (mA):		
	Max. allowed touch current (mA):		_
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	(see appended table 5.2)	Р
5.2.2	Test procedure	(see appended table 5.2)	Р
5.3	Abnormal operating and fault conditions		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	Adequate protection against overload provided. (see appended Annex C)	Р
5.3.4	Functional insulation:	Short circuit tests. (see appended table 5.3)	Р
5.3.5	Electromechanical components	Not provided.	N/A
5.3.6	Audio amplifiers in ITE:	No such component	N/A
5.3.7	Simulation of faults	Results see appended table 5.3	Р
5.3.8	Unattended equipment	None of the listed components was provided	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No fire propagated beyond the equipment. No molten metal was emitted.	Р



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Clause	Requirement	Result - Remark	Verdict
5.3.9.1	During the tests		P
5.3.9.2	After the tests		Р
6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network service equipment connected to the network, from hazard		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2.1	Requirements		N/A
	Test voltage (V):		_
	Current in the test circuit (mA):		_
6.1.2.2	Exclusions		N/A
6.2	Protection of equipment users from overvoltages	on telecommunication networks	N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A
6.3	Protection of the telecommunication wiring system from overheating		N/A
	Max. output current (A):		_
	Current limiting method:		_
7	CONNECTION TO CABLE DISTRIBUTION SYST	rems .	N/A
7.1	General	Not connected 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		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		N/A



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Clause	Requirement	Result - Remark	Verdict		
		T			
7.4.3	Impulse test		N/A		
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N/A		
A.1	Flammability test for fire enclosures of movable ed exceeding 18 kg, and of stationary equipment (see		N/A		
A.1.1	Samples:				
	Wall thickness (mm):		_		
A.1.2	Conditioning of samples; temperature (°C):		N/A		
A.1.3	Mounting of samples:		N/A		
A.1.4	Test flame (see IEC 60695-11-3)		N/A		
	Flame A, B, C or D		_		
A.1.5	Test procedure		N/A		
A.1.6	Compliance criteria		N/A		
	Sample 1 burning time (s)				
	Sample 2 burning time (s)				
	Sample 3 burning time (s)				
A.2	Flammability test for fire enclosures of movable ed exceeding 18 kg, and for material and component (see 4.7.3.2 and 4.7.3.4)		N/A		
A.2.1	Samples, material:		—		
	Wall thickness (mm):		_		
A.2.2	Conditioning of samples		N/A		
A.2.3	Mounting of samples:		N/A		
A.2.4	Test flame (see IEC 60695-11-4)		N/A		
	Flame A, B or C		_		
A.2.5	Test procedure		N/A		
A.2.6	Compliance criteria		N/A		
	Sample 1 burning time (s)		—		
	Sample 2 burning time (s)		_		
	Sample 3 burning time (s):				
A.2.7	Alternative test acc. to IEC 60695-2-2, cl. 4 and 8		N/A		
	Sample 1 burning time (s):		_		
	Sample 2 burning time (s):		_		
	Sample 3 burning time (s)		_		

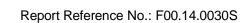




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Clause	Requirement	Result - Remark	Verdict		
			1		
A.3	Hot flaming oil test (see 4.6.2)		N/A		
A.3.1	Mounting of samples		N/A		
A.3.2	Test procedure		N/A		
A.3.3	Compliance criterion		N/A		
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N/A		
B.1	General requirements		N/A		
	Position	(see appended table 1.5.1)	_		
	Manufacturer:	(see appended table 1.5.1)	_		
	Type:	(see appended table 1.5.1)			
	Rated values:	(see appended table 1.5.1)	_		
B.2	Test conditions		N/A		
B.3	Maximum temperatures	(see appended table 5.3)	N/A		
B.4	Running overload test	(see appended table 5.3)	N/A		
B.5	Locked-rotor overload test		N/A		
	Test duration (days):		_		
	Electric strength test: test voltage (V):		_		
B.6	Running overload test for d.c. motors in secondary circuits		N/A		
B.7	Locked-rotor overload test for d.c. motors in secon	ndary circuits	N/A		
B.7.1	Test procedure	(see appended table 5.3)	N/A		
B.7.2	Alternative test procedure; test time (h):		N/A		
B.7.3	Electric strength test	(see appended table 5.2)	N/A		
B.8	Test for motors with capacitors	(see appended table 5.3)	N/A		
B.9	Test for three-phase motors	(see appended table 5.3)	N/A		
B.10	Test for series motors		N/A		
	Operating voltage (V):		—		
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Р		
	Position		_		
	Manufacturer:		_		
	Type:		_		
	Rated values				



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Clause	Requirement	Result - Remark	Verdict
	Method of protection:		—
C.1	Overload test	(see appended table 5.3)	Р
C.2	Insulation	(see appended table 5.2)	Р
	Protection from displacement of windings:	Fixed by insulation tape, margin tape and tube.	Р
D	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	OUCH-CURRENT TESTS	Р
D.1	Measuring instrument		Р
D.2	Alternative measuring instrument		N/A
Е	ANNEX E, TEMPERATURE RISE OF A WINDING	G (see 1.4.13)	N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES A (see 2.10)	AND CREEPAGE DISTANCES	Р
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		
G.1	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V):		N/A
G.2.1	AC mains supply		N/A
G.2.2	DC mains supply		N/A
G.3	Determination of telecommunication network transient voltage (V)		N/A
G.4	Determination of required withstand voltage (V).:		N/A
G.5	Measurement of transient levels (V)		N/A
G.6	Determination of minimum clearances		N/A
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ΓENTIALS (see 2.6.5.6)	N/A
	Metal used	stainless steel	_
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	d 5.3.7)	N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V):		N/A





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Clause	Requirement	Result - Remark	Verdict			
K.3	Thermostat endurance test; operating voltage (V)	:	N/A			
K.4	Temperature limiter endurance; operating voltage (V)	:	N/A			
K.5	Thermal cut-out reliability		N/A			
K.6	Stability of operation	(see appended table 5.3)	N/A			
L	ANNEX L, NORMAL LOAD CONDITIONS FOR BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1		Р			
L.1	Typewriters		N/A			
L.2	Adding machines and cash registers		N/A			
L.3	Erasers		N/A			
L.4	Pencil sharpeners		N/A			
L.5	Duplicators and copy machines		N/A			
L.6	Motor-operated files		N/A			
L.7	Other business equipment		Р			
M	ANNEX M, CRITERIA FOR TELEPHONE RING	ING SIGNALS (see 2.3.1)	N/A			
M.1	Introduction		N/A			
M.2	Method A		N/A			
M.3	Method B		N/A			
M.3.1	Ringing signal		N/A			
M.3.1.1	Frequency (Hz)	:				
M.3.1.2	Voltage (V)	:				
M.3.1.3	Cadence; time (s), voltage (V)	:				
M.3.1.4	Single fault current (mA)	:				
M.3.2	Tripping device and monitoring voltage	:	N/A			
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A			
M.3.2.2	Tripping device		N/A			
M.3.2.3	Monitoring voltage (V)	:	N/A			
N	ANNEX N, IMPULSE TEST GENERATORS (se clause G.5)	e 2.10.3.4, 6.2.2.1, 7.3.2 and	N/A			
N.1	ITU-T impulse test generators		N/A			
N.2	IEC 60065 impulse test generator		N/A			



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Clause	Requirement Result - Remark	Verdict				
	·					
Р	ANNEX P, NORMATIVE REFERENCES	Р				
Q	ANNEX Q, BIBLIOGRAPHY	N/A				
	ANNEY D. EVANDI EQ OF DEGUIDEMENTO FOR QUALITY CONTROL	N1/A				
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N/A				
R.1	Minimum separation distances for unpopulated	N/A				
	coated printed boards (see 2.10.6)					
R.2	Reduced clearances (see 2.10.3)	N/A				
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N/A				
S.1	Test equipment	N/A				
S.2	Test procedure	N/A				
S.3	Examples of waveforms during impulse testing	N/A				
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)					
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED	N/A				
	INSULATION (see 2.10.5.4)					
		—				
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	Р				
V.1	Introduction	P				
V.2	TN power distribution systems	N/A				
W	ANNEX W, SUMMATION OF TOUCH CURRENTS	Р				
W.1	Touch current from electronic circuits	Р				
W.1.2	Earthed circuits	N/A				
W.2	Interconnection of several equipments	N/A				
W.2.1	Isolation	N/A				
W.2.2	Common return, isolated from earth	N/A				
W.2.3	Common return, connected to protective earth	N/A				



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Clause	Requirement	Result - Remark	Verdict			
Х	ANNEX X, MAXIMUM HEATING EFFECT IN TRA	ANSRORMER TESTS	Р			
X.1	Determination of maximum input current					
X.2	Overload test procedure					
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING	G TEST (see 4.3.13.3)	N/A			
Y.1	Test apparatus		N/A			
Y.2	Mounting of test samples		N/A			
Y.3	Carbon-arc light-exposure apparatus		N/A			
Y.4	Xenon-arc light exposure apparatus		N/A			
Annex ZA	Replace the current Annex ZA Normative references to international publications with their corresponding European publications(60950-1 2006+A11:2009 clause)		N/A			
Annex ZB	Change the existing special national conditions as follows: (60950-1 2006+A11:2009 clause)		N/A			
1.1.1	NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For television sets EN 60065 applies. (60950-1 2006+A1:2010 clause)		N/A			
1.2.3	PORTABLE SOUND SYSTEM (60950-1 2006+A1:2010 clause)		N/A			
	whose prime purpose is to listen to recorded or broadcasted sound;		N/A			
	that uses headphones or earphones that can be worn in or on or around the ears;		N/A			
	that allows the user to walk around		N/A			
1.2.13.14	In Norway and Sweden, for requirements see 1.7.2.1 and 7.3 of this annex. (60950-1 2006+A11:2009 clause)		N/A			



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Clause	Requirement	Result - Remark	Verdict		
1.5.7.1	Replace the existing SNC by the following: In Finland, Norway and Sweden, resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2. (60950-1 2006+A11:2009 clause)		N/A		
1.7.2.1	In Norway and Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: "Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)." Translation to Norwegian (the Swedish text will also be accepted in Norway): (see standard) Translation to Swedish: (see standard) (60950-1 2006+A11:2009 clause)		N/A		





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Clause	Requirement	Result - Remark	Verdict		
	In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause: 1. If this insulation is solid, including insulation forming part of a component, 2. there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing,		N/A		
	(60950-1 2006+A1:2010 clause6.1.2.1) In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss. (60950-1 2006+A1:2010 clause)		N/A		
1.7.5	Add the following paragraph to the existing SNC for Denmark: For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a. (60950-1 2006+A11:2009 clause)		N/A		
4.3.13.6	NOTE Z1 Attention is drawn to :1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. (60950-1 2006+A1:2010 clause)		N/A		
7.3	Delete the existing SNC for Norway and Sweden (based on NOTE 1 of IEC 60950-1:2005 + corr. 1). Add as new SNC (based on future NOTE 3 of IEC 60950-1:200X): In Norway and Sweden, for requirements see 1.2.13.14 and 1.7.2.1 of this annex. (60950-1 2006+A11:2009 clause)		N/A		
Annex ZC	With below modification (60950-1 2006+A11:2009 clause)		N/A		
1.5.1	Sweden (Ordinance 1990:944) Delete		N/A		



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Clause	Requirement Result - Remark		Verdict	
			1	
1.7.2.1	Denmark (Heavy Current Regulations) Delete		N/A	
1.7.5	Denmark (Heavy Current Regulations) Delete		N/A	
5.1.7.1	Denmark (Heavy Current Regulations, Chapter 707, clause 707.4) Delete		N/A	



	EN 60950-1				
Clause	Requirement	Result - Remark	Verdict		

TABLE 1.5.1	List of critical cor	mponents and ma	terials		
Component	manufacturers / trademark	Type / model	Value / rating	standard	Approval/ Reference
PCB	Kingboard	KB-3151S	V-0 130° C	UL 94	Test with
	Laminates Holdings Ltd				appliance and UL
Plug	New Square Company Ltd.	MT-11	2.5A 250V	EN 50525 IEC 60227	VDE
Supply cord	New Square Company Ltd.	H03VVH2-F	300/300V, 2*0.75mm2	EN 50525 IEC 60227	VDE
Plug(outlet)	New Square Company Ltd.	MT-18	2.5A 250V	EN 50525 IEC 60227	VDE
Internal wire	Yang Tai Wire & Cable Co,.Ltd	1015	Min.20AWG, VW-1, 600V, 105°C		Test with appliance and UL
Fuse (F1)	Shenzhen Lanson	3N	AC250V, 8A;Time-lag	IEC/EN 60127-1 IEC/EN 60127-3	VDE
Components use	d in T1:				
Bobbin for	Chang Chun	T375J	PMC;V-0; 150° C		Test with
transformer(T1)	Plastics Co Ltd				appliance and UL
Magnet Wire for	Dong Guan Yida	*UEW/155 or	155°C		Test with
transformer(T1)	Industrial Co Ltd	QA-*/155			appliance and UL
Triple insulated wire for transformer(T1)	Great Leoflon Industrial Co Ltd	TRW(B)Serie(s)	Insulation voltage:1000Vpeak max,;Class B		VDE
Insulation tape inside transformer(T1)	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	PF	Polimide film tape;180℃		Test with appliance and UL
Teflon tube inside transformer(T1)	Changyuan Electronics (Shenzhen) Co Ltd	CB-TT-S	PTFE not-heat-shrinkable tubing;600V;200℃		Test with appliance and UL



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Clause Requirement Result - Remark Verdict						Verdict
Varnish for transforme		Hang Cheung Petrochemical Ltd	8562(a)	HC;155℃		Test with appliance and UL



EN 60950-1				
Clause	Requirement	Result - Remark	Verdict	

1.6.2 TABLE: electrical data (in normal conditions)						Р	
fuse #	Irated (A)	U (V)	P (W)	I (A)	Ifuse (A)	condition/status	
		76Va.c./50Hz	7.8	0.1	0.1	Max. Normal Load	
		76Va.c./60Hz	8.4	0.1	0.1	Max. Normal Load	
F1	0.1	85Va.c./50Hz	7.9	0.1	0.1	Max. Normal Load	
F1	0.1	85Va.c./60Hz	8.3	0.1	0.1	Max. Normal Load	
F1	0.1	265Va.c./50Hz	7.7	0.1	0.1	Max. Normal L	oad
F1	0.1	265Va.c./60Hz	8.2	0.1	0.1	Max. Normal Load	
		291Va.c./50Hz	7.9	0.1	0.1	Max. Normal Load	
		291Va.c./60Hz	8.0	0.1	0.1	Max. Normal Load	

2.1.1.5	TABLE: max	ABLE: max. V, A, VA test					
Voltage (V	` '	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (n (V	•	
	-		-	-		-	
Supplied by	Supplied by AC253V 60Hz						

2.2.2	TABLE: I	TABLE: Hazardous voltage measurement				
Transformer		Location	max. Voltage		Voltage Limitation	
			V peak	V d.c.	Component	
Transformer		Pin sec	267V			

2.2.3	TABLE: SEL vol	TABLE: SEL voltage measurement				
Location Voltage measured (V) Comments						
Output term	inal					
Note:						



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Clause	Requirement	Result - Remark	Verdict	

2.5	TABLE: limited power	er source measurement		N/A	
		Limits	Measured	Verdict	
Uoc =24.5\	/ (measured under no	load conditions)			
		Limits	Measured	Verdict	
According to	o Table 2B with the ma	ax. load conditions			
current (A)		≤8		N/A	
power (VA)		≤100		N/A	
According to	o Table 2B with BD1 o	pen-circuited:			
current (A)		≤8		N/A	
power (VA)		≤100		N/A	
According to	o Table 2B with C1 op	en-circuited:		<u>-</u>	
current (A)		≤8		N/A	
power (VA)		≤100		N/A	
According to	o Table 2B with C1 sh	ort-circuited:			
current (A)		≤8		N/A	
power (VA)		≤100		N/A	
Note: test v	oltage: 264Vac, 60Hz			•	

2.6.3.4	TABLE: ground continue test					
Location		Resistant measured (W)	Comments			
From earth	ing terminal to casing					
Note:	Note:					



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Clause	Requirement	Result - Remark	Verdict	

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					Р	
clearance cl distance dcr	and creepage at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
L to N before	fuse F1, on PCB	340	264	2.0	2.6	2.7	2.6
Two pins of	fuse F1, on PCB	340	264	2.0	2.6	2.7	2.6
core to secon transformer ((Reinforced)		521	276	6.4	7.9	5.4	7.9
core to secon	ndary pins inside (Reinforced)	512	276	6.4	6.6	5.4	6.6
Primary to a (Reinforced)	ccessible surface	512	276	6.4	6.6	5.4	6.6

2.10.5	TABLE: distance through insulation measurements				Р
distance thre	ough insulation di at/of:	Up (V)	test voltage (V)	required dti (mm)	dti (mm)
Enclosure (Reinforced)		512	3000 ac	0.4	2.15
Remark: 1) further details are provided in table 1.5					



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Clause	Requirement	Result - Remark	Verdict	

4.5	TABLE: maximum temperatures			Р	
	test voltage (V):	76V/60Hz	291V/	/50Hz	_
	t _{amb1} (°C):	40.0	40.0		
	t _{amb2} (°C):				
maximum temperature T of part/at::		T (°C)	T (°C)		allowed
					T _{max} (°C)
Winding of transformer (T1)		83.9	89.6		110
Core of transformer (T1)		82.2	88.7		110
PCB		71.3	77.8		130
Ouput connector		54.5	58.8		80
Enclosure near T1 (inside)		52.7	57.8		95
Enclosure near T1 (outside)		45.8	58.6		95
temperature T of winding:		$R_2\left(\Omega\right)$	T (°C)	allowed	insulation
				T _{max} (°C)	class

Supplementary information:

The maximum ambient temperature permitted by the manufacturer's specification Tma=40°C

4.5.5	TABLE: ball pressure test of thermoplastic parts			Р
	allowed impression diameter (mm) :	≤ 2 mm —		_
part		test temperature (°C)	impression diameter (mm)	
PCB		125	0.92	
Transformer bobbin		125	0.71	
Enclosure		125	1.22	



	EN 60950-		
Clause	Requirement	Result - Remark	Verdict

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests		Р	
test voltage applied between:		test voltage (V) b	breakdown Yes / No	
L and N		1500Vac	No	
L/N and accessible area		3000Vac	No	
L/N and output terminal		3000Vac	No	
supplementary information				

5.3	TABLE: fault condition tests		Р
	ambient temperature (°C):	25.6°C	3/4
	model/type of power supply:		3/4
	manufacturer of power supply:		3/4
	Rated markings of power supply:		3/4

Component no.	Fault	Test voltage (V)	Test time	Result
Output	o-l	264	6h	Input power increased. The max temperature as follows: Transformer (T1) winding: 112.6℃, Ambient:25.2℃;
				no hazard.
Output	S-C	264	10min	Unit shut down, recoverable. No hazard.
Transformer output	S-C	265	10min	Unit shut down, recoverable. No hazard.
Transformer primary (Pin1-3)	s-c	265	10min	Fuse open immediately. No hazard.
Transformer primary (Pin2-4)	S-C	265	10min	Fuse open immediately. No hazard.
Remark: s-c: short c	ircuit, o-l:	overload		



Attachment – A

Report Reference No.: F00.14.0030S

Photo Documentation

Photo 1

View:

[√] Front

[] Rear

[] Right side

[] Left side

[] Top

Bottom

Internal

[]

[]

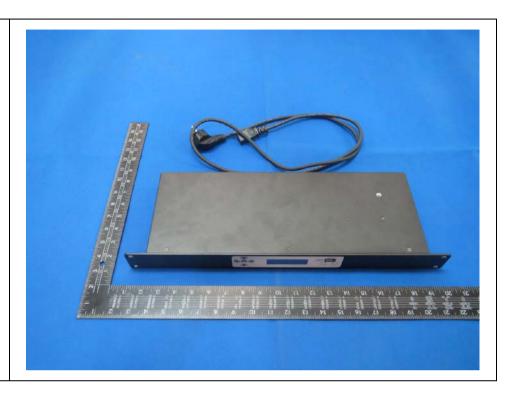


Photo 2

View:

[] Front

[√] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[] Internal

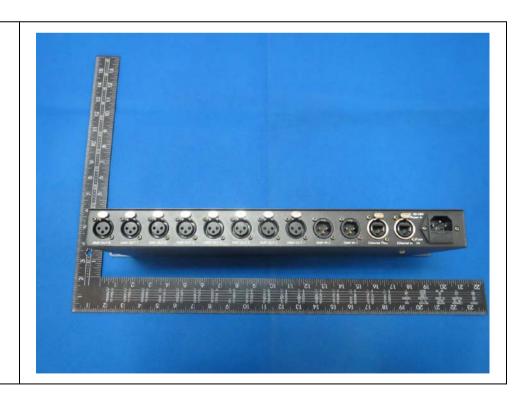




Photo	3	
View:		
[√]	Front	
[]	Rear	
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[]	Тор	
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[]	Internal	The state of the s

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