



PRODUCT SAFETY ENGINEERING, INC.

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LVD Report

MSTronic Co., Ltd.

**Models: MIT-07XX-1748CC, MIT-07XX-2024CC, MIT-07XX-1818CC
and MIT-07XX-2448CC**



PSE99-1161



PSE INC. TAIWAN

9F-1 No.80, Sec. 2, Guang Fu Rd., San Chung Dist., New Taipei City, Taiwan
Tel:+886-2-85123188 Fax:+886-2-29959169



Certificate of Compliance

Low Voltage Directive 2006/95/EC

Certificate Number: PSE99-1161

Applicant: MStronic Co., Ltd.
2F., No. 12, Gong Shang Rd., Wugu District, New Taipei City 248,
Taiwan

Product: Power over Ethernet Device
Model/Type: MIT-07XX-1748CC, MIT-07XX-2024CC, MIT-07XX-1818CC and
MIT-07XX-2448CC

Electrical Rating: I/P: 100-240Vac.; 0.5A; 47-63Hz

Trade Mark: 

Specification:

Standards applied: IEC 60950-1:2005, Second Edition And/or EN 60950-1:2006

The tested samples of the above products are in conformity with the technical provisions of
the

Following European Directive -
- Low Voltage Directive 2006/95/EC -

Date Issued: 2011-10-14

Approve &
Authorized Signer: 
Jeff Chang



EU Declaration of Conformity



According to the Low Voltage Directive 2006/95/EC

For the following equipment:

Product:

Power over Ethernet Device

Type Designation/Trademark:

MIT-07XX-1748CC, MIT-07XX-2024CC,
MIT-07XX-1818CC and MIT-07XX-2448CC

Manufacturer's Name:

MSTronic Co., Ltd.

Manufacturer's Address:

2F., No. 12, Gong Shang Rd., Wugu District,
New Taipei City 248, Taiwan

is herewith confirmed to comply with the requirements set out in the Council Directive 2006/95/EC for electrical equipment used within certain voltage limits. For the evaluation of the compliance with this Directives, the following standards were applied:

IEC 60950-1:2005, Second Edition And/or EN 60950-1:2006

Responsible for making this declaration is the :

Manufacturer ☐

Authorized representative established within the EU ☐

Authorized representative established within the EU (if applicable) :

Company Name :

Company Address :

Person responsible for making this declaration

Name, Surname :

Position/Title :

(Place)

(Date)

(Company stamp and legal signature)

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Test Report

TEST REPORT
IEC 60950-1
Information technology equipment – Safety –
Part 1: General requirements

Report Number: PSE99-1161

Date of issue: 2011-10-14

Total number of pages: 51

Testing Laboratory: Product Safety Engineering Inc. Taiwan

Address: 9F-1 No.80, Sec. 2, Guang Fu Rd., San Chung Distr., New Taipei City 241, Taiwan

Applicant's name: MStronic Co., Ltd.

Address: 2F., No. 12, Gong Shang Rd., Wugu District, New Taipei City 248, Taiwan

Manufacturer's name: MStronic Co., Ltd.

Address: 2F., No. 12, Gong Shang Rd., Wugu District, New Taipei City 248, Taiwan

Test specification:

Standard: IEC 60950-1:2005 (2nd Edition); A1:2009
EN 60950-1:2006 (2nd Edition); A11:2009

Test procedure: LVD of CE

Non-standard test method: N/A

Test Report Form No: IEC60950_1B

Test Report Form(s) Originator: SGS Fimko Ltd

Master TRF: Dated 2010-04

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description: Power over Ethernet Device

Trade Mark: 

Manufacturer: MStronic Co., Ltd.

Model/Type reference: 1) MIT-07XX-1818CC
2) MIT-07XX-2024CC
3) MIT-07XX-1748CC
4) MIT-07XX-2448CC
(Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, C, H or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and C means current indicator CC means different parts suppliers)

Ratings: **Input:**
1) 100-240Vac, 0.5A; 47-63 Hz
Output:

- | | |
|----|--------------------------------------|
| 1) | +18Vdc, 1.0A, 18W (MIT-07XX-1818CC) |
| 2) | +24Vdc, 0.8A, 20W (MIT-07XX-2024CC) |
| 3) | +48Vdc, 0.35A, 17W (MIT-07XX-1748CC) |
| 4) | +48Vdc, 0.5A, 24W (MIT-07XX-2448CC) |

Testing procedure and testing location:		
☐	CB Testing Laboratory: Testing location/ address.....:	
☐	Associated CB Laboratory: Testing location/ address :	
	Tested by (name + signature): Jacky Hsu	
	Approved by (+ signature).....: Jeff Chang	
☐	Testing procedure: TMP Tested by (name + signature): Approved by (+ signature).....: Testing location/ address.....:	
☐	Testing procedure: WMT Tested by (name + signature): Witnessed by (+ signature): Approved by (+ signature).....: Testing location/ address.....:	
☐	Testing procedure: SMT Tested by (name + signature): Approved by (+ signature).....: Supervised by (+ signature): Testing location/ address.....:	
☐	Testing procedure: RMT Tested by (name + signature): Approved by (+ signature).....: Supervised by (+ signature): Testing location/ address.....:	

Summary of testing:

Unless otherwise indicated, all tests were conducted at PSE Inc. Taiwan, 9F-1 No.80, Sec. 2, Guang Fu Rd., San Chung Dist., New Taipei City, Taiwan

Tests performed (name of test and test clause)

Testing location:

MAXIMUM OUTPUT VOLTAGE, CURRENT, AND VOLT AMPERE MEASUREMENT TEST (1.2.2.1)

INPUT TEST: SINGLE-PHASE (1.6.2)

DURABILITY OF MARKING TEST (1.7.11)

SELV RELIABILITY TEST (2.2.2, 2.2.3, 2.2.4, PART 22 6.1)

LIMITED CURRENT CIRCUIT MEASUREMENTS (2.4.1, 2.4.2)

LIMITED POWER SOURCE MEASUREMENTS (2.5)

PROTECTIVE BONDING TEST II (2.6.3.4, 2.6.1)

HUMIDITY TEST (2.9.1, 2.9.2, 5.2.2)

DETERMINATION OF WORKING VOLTAGE - WORKING VOLTAGE MEASUREMENT TEST (2.10.2)

DETERMINATION OF WORKING VOLTAGE - HAZARDOUS VOLTAGE (CIRCUIT) MEASUREMENT TEST (2.10.2, PART 22 6.1)

THIN SHEET MATERIAL TESTS (2.10.5.9, 2.10.5.10, 2.10.5.6)

TRANSFORMER AND WIRE INSULATION ELECTRIC STRENGTH TEST (2.10.5.13)

STEADY FORCE TEST (4.2.1-4.2.4)

IMPACT TEST (4.2.5, 4.2.1, PART 22 10.2)

STRESS RELIEF (4.2.7, 4.2.1)

SHARP EDGE TEST(4.3.1)

HEATING TEST (4.5.1, 1.4.12, 1.4.13)

BALL PRESSURE (4.5.5)

TOUCH CURRENT TEST (SINGLE-PHASE; TN/TT SYSTEM) (5.1, ANNEX D)

ELECTRIC STRENGTH TEST (5.2.2)

COMPONENT FAILURE TEST (5.3.1, 5.3.4, 5.3.7)

POWER SUPPLY OUTPUT SHORT-CIRCUIT/OVERLOAD TEST (5.3.7)

Copy of marking plate

MIT-07-1748

AC Input		DC Output
100-240Vac 0.5A,47-63Hz		48V/0.35A L.P.S
Pin	RJ45 Input	RJ45 Output
4	NC	Vdc(+)
5	NC	Vdc(+)
7	NC	Vdc(-)
8	NC	Vdc(-)

CE FC  US
S/N:  LISTED
IT& E314090
MADE IN TAIWAN

MIT-07-1818

AC Input		DC Output
100-240Vac 0.5A,47-63Hz		18V/1.0A L.P.S
Pin	RJ45 Input	RJ45 Output
4	NC	Vdc(+)
5	NC	Vdc(+)
7	NC	Vdc(-)
8	NC	Vdc(-)

CE FC  US
S/N:  LISTED
IT& E314090
MADE IN TAIWAN

MIT-07-2024

AC Input		DC Output
100-240Vac 0.5A,47-63Hz		24V/0.8A L.P.S
Pin	RJ45 Input	RJ45 Output
4	NC	Vdc(+)
5	NC	Vdc(+)
7	NC	Vdc(-)
8	NC	Vdc(-)

CE FC  US
S/N:  LISTED
IT& E314090
MADE IN TAIWAN

MIT-07-2448

AC Input		DC Output
100-240Vac 0.5A,47-63Hz		48V/0.5A L.P.S
Pin	RJ45 Input	RJ45 Output
4	NC	Vdc(+)
5	NC	Vdc(+)
7	NC	Vdc(-)
8	NC	Vdc(-)

CE FC  US
S/N:  LISTED
IT& E314090
MADE IN TAIWAN

"The above labels are drafts of an artwork for marking plate pending approval by national Certification Bodies and it shall not be affixed to products prior to such an approval"

- 1) MIT-07XX-1818CC
- 2) MIT-07XX-2024CC
- 3) MIT-07XX-1748CC
- 4) MIT-07XX-2448CC

(Where C can be 0-9, a-z, A-Z or blank and X can be D, T, R, C, H or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and C means current indicator CC means different parts suppliers)

Test item particulars	Power over Ethernet Device
Equipment mobility.....	☒ movable ☐ hand-held ☐ transportable ☐ stationary ☐ for building-in ☐ direct plug-in
Connection to the mains	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition.....	☒ continuous ☐ rated operating / resting time:
Access location	☒ operator accessible ☐ restricted access location
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:
Mains supply tolerance (%) or absolute mains supply values	Class I equipment.
Tested for IT power systems	☒ Yes ☐ No
IT testing, phase-phase voltage (V)	230V for Norway
Class of equipment	☐ Class I ☐ Class II ☒ Class III ☐ Not classified
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class	IPX0
Altitude during operation (m)	2000
Altitude of test laboratory (m)	100
Mass of equipment (kg)	0.13
Possible test case verdicts:	
- test case does not apply to the test object : N/A (or N)	
- test object does meet the requirement : P (Pass)	
- test object does not meet the requirement : F (Fail)	
Testing	
Date of receipt of test item.....	2011-04-08
Date(s) of performance of tests.....	2011-04-08 to 2011-07-06
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(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 ☒ comma / ☐ point is used as the decimal separator.	

Name and address of factory (ies) : 1)	Lih Rong Electronic Enterprise Co., Ltd. 2F, No. 2, Lane 387, Hsin Shu Road, Hsin Chung District, New Taipei City, 242 Taiwan R.O.C
2)	CHATA ELECTRONICS LTD 43 LAN 57 DONGSHUN ST.SHULIN DISTRICT NEW TAIPEI CITY 238 TW

General product information:

Power over Ethernet device is used for information technology network equipment. The device supply DC power and connects Ethernet network equipment, such as the access Point, Hub, Router, Personal computer and so on.

Power over Ethernet considered a Network Environment o per IEC TR 62102, and thus the interconnected ITE circuits may be considered SELV. The installation instructions clearly state that the ITE is to be connected onlyto PoE networks without routing to the outside plant.

Model Difference:

All models are same except for the output voltage and different transformer (T1), output diode, capacitor used.

Technical Considerations

The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of 50°C

The product was investigated to the following additional standards : EN 60950-1:2006+A11:2009(which includes all European national difference, including those specified in this report)

Abbreviations used in the report:			
- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI
Indicate used abbreviations (if any)			

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		P
1.5	Components		P
1.5.1	General	See as below.	P
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	P
1.5.2	Evaluation and testing of components	Components certified to IEC harmonized standard and checked for correct application. Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component Standard. Components, for which no relevant IEC-Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.	P
1.5.3	Thermal controls	No thermal controls provided	N/A
1.5.4	Transformers	Transformer used are suitable for the intended application and comply with the relevant requirements of the standard and particularly with those of Annex C.	P
1.5.5	Interconnecting cables	Unit intended for building-in. To be determined in the endproduct. However the output didn't exceed 240VA.	N/A
1.5.6	Capacitors bridging insulation	Primary-to-earth capacitors are subclass Y1 or Y2. Between lines: min. X2 capacitors according to IEC 60384-14 with 21 days damp heat test. Primary and secondary bridged by one capacitor, which used was certified as Y1 capacitor according to IEC 60384-14 with 21 days damp heat test.	P
1.5.7	Resistors bridging insulation	See below	P
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Bleeder resistor is located after current fuse, treat as providing protective device while short circuit.	P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	No such resistors provided.	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	No such resistors provided.	N/A
1.5.8	Components in equipment for IT power systems	All the sources of the capacitor connected between primary and earth rated 250 V.	P
1.5.9	Surge suppressors	See below.	P
1.5.9.1	General	Approved Varistor comply with Annex Q used in primary circuit.	P
1.5.9.2	Protection of VDRs	A fuse is connected in series with VDR.	P
1.5.9.3	Bridging of functional insulation by a VDR	Approved Varistor locate between mains lines.	P
1.5.9.4	Bridging of basic insulation by a VDR	No VDR provided in basic insulation.	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	No VDR provided in double or reinforced insulation.	N/A

1.6	Power interface		P
1.6.1	AC power distribution systems	IT power system for Norway only, TN power system for others.	P
1.6.2	Input current	(see appended table 1.6.2) The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD.	P
1.6.3	Voltage limit of hand-held equipment	Not hand-held equipment.	N/A
1.6.4	Neutral conductor	Neutral serve as Line conductor, Neutral is insulated from earth with basic insulation.	P

1.7	Marking and instructions		P
1.7.1	Power rating and identification markings		P
1.7.1.1	Power rating marking	Rating marking readily visible to operator.	P
	Multiple mains supply connections.....:	Not multiple powers.	N/A
	Rated voltage(s) or voltage range(s) (V)	100-240Vac	P
	Symbol for nature of supply, for d.c. only	AC source	N/A
	Rated frequency or rated frequency range (Hz) ...:	47-63Hz	P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
	Rated current (mA or A)	0.5A	P
1.7.1.2	Identification markings	See as below.	P
	Manufacturer's name or trade-mark or identification mark	MSTronic Co., Ltd. or 	P
	Model identification or type reference	1) MIT-07XX-1818CC 2) MIT-07XX-2024CC 3) MIT-07XX-1748CC 4) MIT-07XX-2448CC (Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, C, H or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and C means current indicator CC means different parts suppliers)	P
	Symbol for Class II equipment only	Class I equipment.	N/A
	Other markings and symbols	Additional symbols or markings do not give rise to misunderstanding.	P
1.7.2	Safety instructions and marking	See below.	P
1.7.2.1	General	Safety instruction in English. Other languages will be provided when submitted for national approval.	P
1.7.2.2	Disconnect devices	Appliance inlet is provided as disconnection device.	P
1.7.2.3	Overcurrent protective device	PLUGGABLE EQUIPMENT TYPE A.	N/A
1.7.2.4	IT power distribution systems	Only for Norway	P
1.7.2.5	Operator access with a tool	No operator accessible area which needs to be accessed by use of a tool.	N/A
1.2.7.6	Ozone	No ozone produces within this equipment.	N/A
1.7.3	Short duty cycles	The equipment is intended for continuous operation	N/A
1.7.4	Supply voltage adjustment	No Voltage adjustment device provided	N/A
	Methods and means of adjustment; reference to installation instructions	Same as above.	N/A
1.7.5	Power outlets on the equipment	No outlets provided.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	Fuse marking printed adjacent to the fuse reads as F1 T1AH/ 250V	P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.7	Wiring terminals	Appliance Inlet provided.	P
1.7.7.1	Protective earthing and bonding terminals	The earth terminal is marked with standard earth symbol (60417-2-IEC-5019) near the terminal.	P
1.7.7.2	Terminals for a.c. mains supply conductors	Not permanently connected equipment and no non-detachable power supply cords provided.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	Mains from AC source only.	N/A
1.7.8	Controls and indicators	See below.	N/A
1.7.8.1	Identification, location and marking	No identification, location and marking provided.	N/A
1.7.8.2	Colours	No safety indicators.	N/A
1.7.8.3	Symbols according to IEC 60417	No symbols provided.	N/A
1.7.8.4	Markings using figures	No figures provided.	N/A
1.7.9	Isolation of multiple power sources	No multiple power sources provided.	N/A
1.7.10	Thermostats and other regulating devices	No thermostats or similar regulating devices provided.	N/A
1.7.11	Durability	All markings provided on UL Recognized Component labels suitable for surface they are applied upon and meet the durability test and the label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 s and then again for 15 s 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 nor lifting of the label edge.	P
1.7.12	Removable parts	No marking is located on removable parts.	N/A
1.7.13	Replaceable batteries	No battery provided.	N/A
	Language(s)	Same as above.	—
1.7.14	Equipment for restricted access locations.....	Equipment is not intended for use in restricted access locations.	N/A
2	PROTECTION FROM HAZARDS		P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in operator access areas	See below.	P
2.1.1.1	Access to energized parts	The operator has access to bare parts of SELV CIRCUITS.	P
	Test by inspection	All accessible circuits are SELV circuits.	P
	Test with test finger (Figure 2A)	The test finger was unable to contact bare hazardous parts, basic insulation, or ELV circuits.	P
	Test with test pin (Figure 2B)	The test pin was unable to contact bare hazardous parts.	P
	Test with test probe (Figure 2C)	No TNV circuit provided.	N/A
2.1.1.2	Battery compartments	No TNV circuit provided.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm)	Same as above.	—
2.1.1.4	Access to hazardous voltage circuit wiring	No internal wiring accessible to the user.	N/A
2.1.1.5	Energy hazards	The hazardous energy circuits can't be bridged by the test finger in a straight position.	P
2.1.1.6	Manual controls	No manual controls provided.	N/A
2.1.1.7	Discharge of capacitors in equipment	No risk of electric shock, see below.	P
	Measured voltage (V); time-constant (s)	4 V at 1 s.	—
2.1.1.8	Energy hazards – d.c. mains supply	Mains from AC source only.	N/A
	a) Capacitor connected to the d.c. mains supply ...	Same as above.	N/A
	b) Internal battery connected to the d.c. mains supply	Same as above.	N/A
2.1.1.9	Audio amplifiers	No audio amplifiers provided.	N/A
2.1.2	Protection in service access areas	No bare parts operating at HAZARDOUS VOLTAGES in a service access area.	N/A
2.1.3	Protection in restricted access locations	The equipment is not intended to be used in restricted locations.	N/A
2.2	SELV circuits		P
2.2.1	General requirements	See below.	P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
2.2.2	Voltages under normal conditions (V)	All accessible voltages are less than 42.4 Vp or 60 V dc and are classified as SELV (see appended table 2.2)	P
2.2.3	Voltages under fault conditions (V)	Under fault conditions voltages never exceed 71V peak and 120Vdc and do not exceed 42.4V peak or 60V dc for more than 0.2 sec. (see appended table 2.2)	P
2.2.4	Connection of SELV circuits to other circuits	SELV circuits are only connected to other secondary circuits.	P

2.3	TNV circuits		N/A
2.3.1	Limits	No TNV circuits provided.	N/A
	Type of TNV circuits	Same as above.	—
2.3.2	Separation from other circuits and from accessible parts	Same as above.	N/A
2.3.2.1	General requirements	Same as above.	N/A
2.3.2.2	Protection by basic insulation	Same as above.	N/A
2.3.2.3	Protection by earthing	Same as above.	N/A
2.3.2.4	Protection by other constructions	Same as above.	N/A
2.3.3	Separation from hazardous voltages	Same as above.	N/A
	Insulation employed	Same as above.	—
2.3.4	Connection of TNV circuits to other circuits	Same as above.	N/A
	Insulation employed	Same as above.	—
2.3.5	Test for operating voltages generated externally	Same as above.	N/A

2.4	Limited current circuits		P
2.4.1	General requirements	The output connector is accessible to the user and connected to the primary circuit by one Y1 bridging capacitor.	P
2.4.2	Limit values	0.7mA	P
	Frequency (Hz).....	60Hz	—
	Measured current (mA)	--	—
	Measured voltage (V)	0.65	—
	Measured circuit capacitance (nF or µF)	C9:1000pF	—

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
2.4.3	Connection of limited current circuits to other circuits	Output circuit as limited current circuit connected to other circuits.	P

2.5	Limited power sources	(see appended table 2.5)	P
	a) Inherently limited output	No Inherently limited output	N/A
	b) Impedance limited output	No Impedance limited output	N/A
	c) Regulating network limited output under normal operating and single fault condition	(see appended table 2.5)	P
	d) Overcurrent protective device limited output	No overcurrent protective device limited output provided.	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) ..	No overcurrent protective device provided.	-
	Use of integrated circuit (IC) current limiters	No IC used.	N/A

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Protective earthing provided as one level of protection against electric shock.	P
2.6.2	Functional earthing	Functional Earthing connected to protective bonding.	P
2.6.3	Protective earthing and protective bonding conductors		P
2.6.3.1	General	See 2.6.3.4.	P
2.6.3.2	Size of protective earthing conductors	Power supply cord earthing conductor complies with Table 3B.	P
	Rated current (A), cross-sectional area (mm ²), AWG	Rated input 0.5A, min. 0.75 mm ² / 18AWG wire shall be used.	—
2.6.3.3	Size of protective bonding conductors	Protective bonding conductors evaluated based on 2.6.3.3 and 2.6.3.4.	P
	Rated current (A), cross-sectional area (mm ²), AWG	Rated input 0.5A, 0.75mm ² / 18AWG wire was used, see 2.6.3.4 for test result also.	—
	Protective current rating (A), cross-sectional area (mm ²), AWG	Same as above.	—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)	From the appliance inlet to the accessible conductive parts: 0.02ohm; 0.64 V; 32A; 2min	P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.5	Colour of insulation.....:	Protective earthing conductor is green with yellow stripe. Protective bonding	P
2.6.4	Terminals	See below.	P
2.6.4.1	General	Appliance inlet employed and the unit meet the test requirement of 2.6.3.4	P
2.6.4.2	Protective earthing and bonding terminals	Same as above.	N/A
	Rated current (A), type, nominal thread diameter (mm)	Same as above.	—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Protective earthing conductor is in appliance inlet.	P
2.6.5	Integrity of protective earthing	See below.	P
2.6.5.1	Interconnection of equipment	The unit has its own earthing connection. Any other units connected via the output wires to other unit shall provide SELV only.	P
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	No switches or fuses in earthing conductors.	N/A
2.6.5.3	Disconnection of protective earth	Disconnection of the protective earth at one assembly remove connection of HAZARDOUS VOLTAGES from the other assemblies at the same time.	P
2.6.5.4	Parts that can be removed by an operator	It is not possible to disconnect earth without disconnecting mains.	P
2.6.5.5	Parts removed during servicing	An appliance coupler used.	P
2.6.5.6	Corrosion resistance	No risk of corrosion. Complies with Annex J.	P
2.6.5.7	Screws for protective bonding	Metal thickness at least twice the pitch of the screw.	P
2.6.5.8	Reliance on telecommunication network or cable distribution system	No TNV circuit provided.	N/A

2.7	Overcurrent and earth fault protection in primary circuits		P
2.7.1	Basic requirements	Protective devices are integrated in the equipment.	P
	Instructions when protection relies on building installation	The equipment is pluggable Type A.	N/A
2.7.2	Faults not simulated in 5.3.7	Adequate fault protection provided.	N/A
2.7.3	Short-circuit backup protection	Pluggable Type A.	P

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Clause	Requirement + Test	Result - Remark	Verdict
2.7.4	Number and location of protective devices	Over current protection by one current fuse.	P
2.7.5	Protection by several devices	Only one current fuse.	N/A
2.7.6	Warning to service personnel.....	No service work necessary.	N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks provided.	N/A
2.8.2	Protection requirements	Same as above.	N/A
2.8.3	Inadvertent reactivation	Same as above.	N/A
2.8.4	Fail-safe operation	Same as above.	N/A
	Protection against extreme hazard	Same as above.	N/A
2.8.5	Moving parts	Same as above.	N/A
2.8.6	Overriding	Same as above.	N/A
2.8.7	Switches, relays and their related circuits	Same as above.	N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	Same as above.	N/A
2.8.7.2	Overload test	Same as above.	N/A
2.8.7.3	Endurance test	Same as above.	N/A
2.8.7.4	Electric strength test	Same as above.	N/A
2.8.8	Mechanical actuators	Same as above.	N/A

2.9	Electrical insulation		P
2.9.1	Properties of insulating materials	Electrical insulation does not rely upon driving belts or couplings. Natural rubber materials containing asbestos and hygroscopic materials are not used as insulation. Adequate clearances and creepage distances.	P
2.9.2	Humidity conditioning	Humidity treatment performed to 120hrs in condition: 95% humidity, 40°C. Electric strength test conducted after the humidity treatment.	P
	Relative humidity (%), temperature (°C)	95%, 40°C	—
2.9.3	Grade of insulation	No flash over or breakdown of insulation.5.2	P
2.9.4	Separation from hazardous voltages	See below.	P
	Method(s) used	Method 1 used.	—

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Clause	Requirement + Test	Result - Remark	Verdict
2.10	Clearances, creepage distances and distances through insulation		P
2.10.1	General	See below.	P
2.10.1.1	Frequency:	47-63Hz	P
2.10.1.2	Pollution degrees:	Pollution degree 2 applicable	P
2.10.1.3	Reduced values for functional insulation	See sub-clause 5.3.4.	P
2.10.1.4	Intervening unconnected conductive parts	No such conductive parts.	N/A
2.10.1.5	Insulation with varying dimensions	Not applicable.	N/A
2.10.1.6	Special separation requirements	No TNV circuit provided.	N/A
2.10.1.7	Insulation in circuits generating starting pulses	No lamps provided.	N/A
2.10.2	Determination of working voltage	See below.	P
2.10.2.1	General	The rms and the peak voltage were measured on the switching power supply. The unit was connected to a 240V TN power system. (See appended table 2.10.2)	P
2.10.2.2	RMS working voltage	(See appended table 2.10.2)	P
2.10.2.3	Peak working voltage	(See appended table 2.10.2)	P
2.10.3	Clearances	(See appended table 2.10.3 and 2.10.4).	P
2.10.3.1	General	Annex F and minimum clearances considered.	P
2.10.3.2	Mains transient voltages	See below.	P
	a) AC mains supply:	Overvoltage category II for primary circuit and transient voltage 2500V _{peak} .	P
	b) Earthed d.c. mains supplies:	Not applicable.	N/A
	c) Unearthed d.c. mains supplies:	Not applicable.	N/A
	d) Battery operation:	Not applicable.	N/A
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 and 2.10.4)	P
2.10.3.4	Clearances in secondary circuits	(see appended table 2.10.3 and 2.10.4)	P
2.10.3.5	Clearances in circuits having starting pulses	No lamps provided.	N/A
2.10.3.6	Transients from a.c. mains supply:	The highest transient in a SECONDARY CIRCUIT assume that the highest transient is in the PRIMARY CIRCUIT.	N/A
2.10.3.7	Transients from d.c. mains supply:	Mains from AC source only.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.8	Transients from telecommunication networks and cable distribution systems	No networks and cable distribution systems provided.	N/A
2.10.3.9	Measurement of transient voltage levels	See sub-clause 2.10.3.6.	N/A
	a) Transients from a mains supply	Same as above.	N/A
	For an a.c. mains supply	Same as above.	N/A
	For a d.c. mains supply	Same as above.	N/A
	b) Transients from a telecommunication network :	Same as above.	N/A
2.10.4	Creepage distances	See as below.	P
2.10.4.1	General	(see appended table 2.10.3 and 2.10.4)	P
2.10.4.2	Material group and comparative tracking index	Material group IIIb is assumed to be used	P
		Material group IIIb; $100 \leq CTI < 175$.	—
	CTI tests	(see appended table 2.10.3 and 2.10.4)	P
2.10.4.3	Minimum creepage distances	See below.	P
2.10.5	Solid insulation		P
2.10.5.1	General	See below.	P
2.10.5.2	Distances through insulation	(see appended table 2.10.5)	P
2.10.5.3	Insulating compound as solid insulation	Optocoupler is the certified component.	P
2.10.5.4	Semiconductor devices	See 2.10.5.3.	P
2.10.5.5	Cemented joints	(see appended table 2.10.3 and 2.10.4)	P
2.10.5.6	Thin sheet material – General	Complied.	P
2.10.5.7	Separable thin sheet material	Reinforced insulation.	P
	Number of layers (pcs)	Two layers used, each of which complies with the required electric strength test (see appended table 2.10.5)	—
2.10.5.8	Non-separable thin sheet material	No Non-separable thin sheet material employed.	N/A
2.10.5.9	Thin sheet material – standard test procedure	See below.	P
	Electric strength test	(see appended table 2.10.5)	—
2.10.5.10	Thin sheet material – alternative test procedure	See below.	P
	Electric strength test	Electric strength test applied to each two layers.	—
2.10.5.11	Insulation in wound components	See sub-clause 2.10.5.12.	P

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.12	Wire in wound components	Certified source of triple insulated wire used in T1 for Reinforced insulation.	P
	Working voltage	See 2.10.2.	P
	a) Basic insulation not under stress	Not applied for.	N/A
	b) Basic, supplementary, reinforced insulation	Not applied for.	N/A
	c) Compliance with Annex U	Triple insulated wire is used in secondary winding for reinforced insulation for T1, also see annex U and appended table 1.5.1.	P
	Two wires in contact inside wound component; angle between 45° and 90°	Insulation tape and/or tubing provided.	P
2.10.5.13	Wire with solvent-based enamel in wound components	Not applicable.	N/A
	Electric strength test	Same as above.	—
	Routine test	Same as above.	N/A
2.10.5.14	Additional insulation in wound components	Not applicable.	N/A
	Working voltage	Same as above.	N/A
	- Basic insulation not under stress	Same as above.	N/A
	- Supplementary, reinforced insulation	Same as above.	N/A
2.10.6	Construction of printed boards	See below.	P
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	P
2.10.6.2	Coated printed boards	No coated printed board provided.	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	Not applicable.	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	Not applicable.	N/A
	Distance through insulation	Same as above.	N/A
	Number of insulation layers (pcs).....	Same as above.	N/A
2.10.7	Component external terminations	Not applicable.	N/A
2.10.8	Tests on coated printed boards and coated components	Not applicable.	N/A
2.10.8.1	Sample preparation and preliminary inspection	Same as above.	N/A
2.10.8.2	Thermal conditioning	Same as above.	N/A
2.10.8.3	Electric strength test	Same as above.	N/A
2.10.8.4	Abrasion resistance test	Same as above.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.9	Thermal cycling	Not applicable.	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Not applicable.	N/A
2.10.11	Tests for semiconductor devices and cemented joints	Not applicable.	N/A
2.10.12	Enclosed and sealed parts	Not applicable.	N/A

3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		P
3.1.1	Current rating and overcurrent protection	All wires/conductors possess adequate cross-sectional areas for their intended application and Internal wiring are adequately insulated.	P
3.1.2	Protection against mechanical damage	The wires are routed away from sharp edges and parts which could damage insulation.	P
3.1.3	Securing of internal wiring	The wires are positioned in such a manner that prevents excessive strain, loosening of terminal connections and damage of conductor insulation.	P
3.1.4	Insulation of conductors	Uninsulated conductors have been adequately fixed to prevent, in normal use, any reduction of creepage of clearance distances below those prescribed by in 2.9.	P
3.1.5	Beads and ceramic insulators	The equipment does not have any beads or similar insulators.	N/A
3.1.6	Screws for electrical contact pressure	All electrical screw connections are by metal screw with more than 2 threads into a metal plate.	P
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N/A
3.1.8	Self-tapping and spaced thread screws	No spaced threads screws for electrical connections.	N/A
3.1.9	Termination of conductors	All conductors are reliably secured.	P
	10 N pull test	10 N pull test performed for all relevant conductors. No hazards caused hereby.	P
3.1.10	Sleeving on wiring	No such sleeving on wiring provided.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.2	Connection to a mains supply		P
3.2.1	Means of connection	The unit is provided with an appliance inlet.	P
3.2.1.1	Connection to an a.c. mains supply	The unit is provided with an appliance inlet for connection of a detachable power supply cord.	P
3.2.1.2	Connection to a d.c. mains supply	Mains from AC source only.	N/A
3.2.2	Multiple supply connections	Single mains supply.	N/A
3.2.3	Permanently connected equipment	The equipment is not permanently connected.	N/A
	Number of conductors, diameter of cable and conduits (mm)	Same as above.	—
3.2.4	Appliance inlets	The appliance inlet complies with IEC 60320.	P
3.2.5	Power supply cords	No power supply cords provided.	N/A
3.2.5.1	AC power supply cords	Same as above.	N/A
	Type	Same as above.	—
	Rated current (A), cross-sectional area (mm ²), AWG	Same as above.	—
3.2.5.2	DC power supply cords	Mains from AC source only.	N/A
3.2.6	Cord anchorages and strain relief	The equipment does not use a non-detachable power supply cord.	N/A
	Mass of equipment (kg), pull (N)	Same as above.	—
	Longitudinal displacement (mm)	Same as above.	—
3.2.7	Protection against mechanical damage	The equipment does not use a non-detachable power supply cord.	N/A
3.2.8	Cord guards	The equipment does not use a non-detachable power supply cord.	N/A
	Diameter or minor dimension D (mm); test mass (g)	Same as above.	—
	Radius of curvature of cord (mm).....	Same as above.	—
3.2.9	Supply wiring space	The equipment is not permanently connected or provided with a non-detachable power supply cord.	N/A
3.3	Wiring terminals for connection of external conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.3.1	Wiring terminals	The equipment is not permanently connected of provided with a non-detachable power supply cord.	N/A
3.3.2	Connection of non-detachable power supply cords	Same as above.	N/A
3.3.3	Screw terminals	Same as above.	N/A
3.3.4	Conductor sizes to be connected	Same as above.	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²).....:	Same as above.	—
3.3.5	Wiring terminal sizes	Same as above.	N/A
	Rated current (A), type, nominal thread diameter (mm)	Same as above.	—
3.3.6	Wiring terminal design	Same as above.	N/A
3.3.7	Grouping of wiring terminals	Same as above.	N/A
3.3.8	Stranded wire	Same as above.	N/A

3.4	Disconnection from the mains supply		P
3.4.1	General requirement	See below.	P
3.4.2	Disconnect devices	The appliance inlet is considered to be the disconnect device.	P
3.4.3	Permanently connected equipment	The unit is not permanently connected equipment.	N/A
3.4.4	Parts which remain energized	No parts remained energy after disconnection of plug.	P
3.4.5	Switches in flexible cords	No such switch provided.	N/A
3.4.6	Number of poles - single-phase and d.c. equipment	Disconnect device disconnects both poles simultaneously.	P
3.4.7	Number of poles - three-phase equipment	Single-phase equipment.	N/A
3.4.8	Switches as disconnect devices	No switch or the switch is not a disconnect device.	N/A
3.4.9	Plugs as disconnect devices	Not used.	N/A
3.4.10	Interconnected equipment	Not interconnected equipment.	N/A
3.4.11	Multiple power sources	Only one supply connection provided.	N/A

3.5	Interconnection of equipment		P
3.5.1	General requirements	See as below.	P

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Clause	Requirement + Test	Result - Remark	Verdict
3.5.2	Types of interconnection circuits	SELV CIRCUIT are only connected to SELV CIRCUITS or LIMITED CURRENT CIRCUITS.	P
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection.	N/A
3.5.4	Data ports for additional equipment	No such part provided.	N/A

4	PHYSICAL REQUIREMENTS		P
4.1	Stability		N/A
	Angle of 10°	Total mass not exceed 7kg.	N/A
	Test force (N)	Equipment is not a floor standing unit.	N/A

4.2	Mechanical strength		P
4.2.1	General	See below.	P
	Rack-mounted equipment.	Not Rack-mounted equipment.	N/A
4.2.2	Steady force test, 10 N	10N applied to components and parts.	P
4.2.3	Steady force test, 30 N	No internal enclosure provided.	N/A
4.2.4	Steady force test, 250 N	No hazard as a result of the 250N test.	P
4.2.5	Impact test	Location: 1) Top side 2) Front side 3) Bottom side Result: No energy or other hazards.	P
	Fall test	Same as above	P
	Swing test	Not applicable.	N/A
4.2.6	Drop test; height (mm)	Unit is not hand-held, direct plug-in, or transportable.	N/A
4.2.7	Stress relief test	No indication of shrinkage or distortion on enclosures due to the stress relief test 85.2°C/7h. See enclosed test record.	P
4.2.8	Cathode ray tubes	No cathode ray tubes provided.	N/A
	Picture tube separately certified	Same as above	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)	No such construction provided.	N/A
4.2.11	Rotating solid media	No such part.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test to cover on the door.....:	Same as above.	N/A
4.3	Design and construction		P
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute a hazard.	P
4.3.2	Handles and manual controls; force (N)..... :	No handles or manual controls provided.	N/A
4.3.3	Adjustable controls	No control devices provided.	N/A
4.3.4	Securing of parts	No loosening of parts impairing creepage distances or clearances over supplementary or reinforced insulation is likely to occur.	P
4.3.5	Connection by plugs and sockets	No misconnection to mains is likely for output (SELV) connector. Connectors complying with IEC 60083 or IEC 60320 is not be used for SELV circuit output.	N/A
4.3.6	Direct plug-in equipment	Not Direct plug-in equipment.	N/A
	Torque	Same as above.	—
	Compliance with the relevant mains plug standard	Same as above.	N/A
4.3.7	Heating elements in earthed equipment	The equipment does not have any heating elements.	N/A
4.3.8	Batteries	No batteries provided.	N/A
	- Overcharging of a rechargeable battery	Same as above.	N/A
	- Unintentional charging of a non-rechargeable battery	Same as above.	N/A
	- Reverse charging of a rechargeable battery	Same as above.	N/A
	- Excessive discharging rate for any battery	Same as above.	N/A
4.3.9	Oil and grease	No oil or grease provided.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment does not product dust or employ powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases	The equipment does not contain liquid.	N/A
4.3.12	Flammable liquids	No flammable liquids in this unit.	N/A
	Quantity of liquid (l)	Same as above.	N/A
	Flash point (°C)	Same as above.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.3.13	Radiation		P
4.3.13.1	General	See below.	P
4.3.13.2	Ionizing radiation	No Ionizing radiation provided.	N/A
	Measured radiation (pA/kg)	Same as above.	-
	Measured high-voltage (kV)	Same as above.	-
	Measured focus voltage (kV)	Same as above.	-
	CRT markings	Same as above.	-
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No UV radiation provided.	N/A
	Part, property, retention after test, flammability classification	Same as above.	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	No UV radiation provided.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	See below.	P
4.3.13.5.1	Lasers (including laser laser diodes)	No lasers provided.	N/A
	Laser class	No other types provided.	-
4.3.13.5.2	Light emitting diodes (LEDs)	This product contains only visible indicator LEDs (Class 1) operating in the range of 400 - 700 nm wavelength. No IEC60825-1 evaluation was deemed necessary. Additional review may be required at the discretion of the accepting NCB.	P
4.3.13.6	Other types	No Ionizing radiation provided.	N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No moving parts provided	N/A
4.4.2	Protection in operator access areas	Same as above.	N/A
	Household and home/office document/media shredders	Same as above.	N/A
4.4.3	Protection in restricted access locations	Same as above.	N/A
4.4.4	Protection in service access areas	Same as above.	N/A
4.4.5	Protection against moving fan blades	Same as above.	N/A
4.4.5.1	General	Same as above.	N/A
	Not considered to cause pain or injury. a).....	Same as above.	N/A
	Is considered to cause pain, not injury. b)	Same as above.	N/A
	Considered to cause injury. c)	Same as above.	N/A
4.4.5.2	Protection for users	Same as above.	N/A
	Use of symbol or warning	Same as above.	N/A
4.4.5.3	Protection for service persons	Same as above.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Use of symbol or warning	Same as above.	N/A

4.5	Thermal requirements		P
4.5.1	General	See as below.	P
4.5.2	Temperature tests	(see appended table 4.5)	P
	Normal load condition per Annex L	Operated in the most unfavourable way of operation given in the operating instructions until steady conditions established.	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat	(see appended table 4.5.5)	P

4.6	Openings in enclosures		P
4.6.1	Top and side openings	See below.	P
	Dimensions (mm)	No opening provided.	-
4.6.2	Bottoms of fire enclosures	See below.	P
	Construction of the bottom, dimensions (mm) ..	No opening provided.	-
4.6.3	Doors or covers in fire enclosures	No such Doors or covers	N/A
4.6.4	Openings in transportable equipment	Not transportable equipment.	N/A
4.6.4.1	Constructional design measures	Same as above.	N/A
	Dimensions (mm)	Same as above.	—
4.6.4.2	Evaluation measures for larger openings	Same as above.	N/A
4.6.4.3	Use of metallized parts	Same as above.	N/A
4.6.5	Adhesives for constructional purposes	No barrier or screen secured with adhesive.	N/A
	Conditioning temperature (°C), time (weeks).....	Same as above.	—

4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	See below.	P
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	P
	Method 2, application of all of simulated fault condition tests	Not applicable.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.7.2	Conditions for a fire enclosure	With having the following components: Components with windings Wiring, Semiconductor devices, transistors, diodes, integrated circuits, resistor, capacitors, inductors The fire enclosure is required.	P
4.7.2.1	Parts requiring a fire enclosure	A fire enclosure covers all parts.	P
4.7.2.2	Parts not requiring a fire enclosure	Same as above.	N/A
4.7.3	Materials		P
4.7.3.1	General	The propagation of fire is minimized through the fire enclosure construction.	P
4.7.3.2	Materials for fire enclosures	Min. V-1 or better.	P
4.7.3.3	Materials for components and other parts outside fire enclosures	No such component provided.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	All internal materials are rated minimum V-2 or better or are mounted on a PWB rated V-1 or better.	P
4.7.3.5	Materials for air filter assemblies	No air filter assemblies.	N/A
4.7.3.6	Materials used in high-voltage components	No high voltage component used.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current		P
5.1.1	General	See sub-clause 5.1.2 to 5.1.7.	P
5.1.2	Configuration of equipment under test (EUT)	See below.	P
5.1.2.1	Single connection to an a.c. mains supply	EUT has only one mains connections.	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply	See 5.1.2.1.	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	See 5.1.2.1	N/A
5.1.3	Test circuit	Equipment of figure 5A used.	P
5.1.4	Application of measuring instrument	Tests are conducted using one of the measuring instruments in annex D, or any other circuit giving the same results.	P

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Clause	Requirement + Test	Result - Remark	Verdict
5.1.5	Test procedure	The touch current was measured from mains to output connector and protective earthing terminal.	P
5.1.6	Test measurements	See below.	P
	Supply voltage (V)	264Vac.	—
	Measured touch current (mA)	(See appended table 5.1)	—
	Max. allowed touch current (mA)	(See appended table 5.1)	—
	Measured protective conductor current (mA)	N/A	—
	Max. allowed protective conductor current (mA)....	N/A	—
5.1.7	Equipment with touch current exceeding 3,5 mA	Touch current does not exceed 3.5mA	N/A
5.1.7.1	General	Same as above.	N/A
5.1.7.2	Simultaneous multiple connections to the supply	Same as above.	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	No TNV circuit provided.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	Same as above.	N/A
	Supply voltage (V)	Same as above.	—
	Measured touch current (mA)	Same as above.	—
	Max. allowed touch current (mA)	Same as above.	—
5.1.8.2	Summation of touch currents from telecommunication networks	Same as above.	N/A
	a) EUT with earthed telecommunication ports	Same as above.	N/A
	b) EUT whose telecommunication ports have no reference to protective earth	Same as above.	N/A

5.2	Electric strength		P
5.2.1	General	Based on the electric strength test the use of the insulating materials within the equipment is satisfactory. (see appended table 5.2)	P
5.2.2	Test procedure	No insulation breakdown detected during the test (see appended table 5.2)	P

5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.2	Motors	No motors provided.	N/A
5.3.3	Transformers	Transformers are constructed in accordance with the applicable Clause and Annex C.	P
5.3.4	Functional insulation.....:	Functional insulation complies with the requirements c).	P
5.3.5	Electromechanical components	No electromechanical components.	N/A
5.3.6	Audio amplifiers in ITE	No audio amplifiers provided.	N/A
5.3.7	Simulation of faults	(see appended table 5.3)	P
5.3.8	Unattended equipment	None of them are used.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No fire, emission of molten metal or deformation was noted during the tests. Electric Strength tests performed after abnormal and fault tests.	P
5.3.9.1	During the tests	Neither fire burns the equipment nor molten metal.	P
5.3.9.2	After the tests	Electric strength test made.	P

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements	No TNV circuit provided.	N/A
	Supply voltage (V)	Same as above.	—
	Current in the test circuit (mA)	Same as above.	—
6.1.2.2	Exclusions	Same as above.	N/A

6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.2.1	Separation requirements	No TNV circuit provided.	N/A
6.2.2	Electric strength test procedure	Same as above.	N/A
6.2.2.1	Impulse test	Same as above.	N/A
6.2.2.2	Steady-state test	Same as above.	N/A
6.2.2.3	Compliance criteria		N/A

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
6.3	Protection of the telecommunication wiring system from overheating		N/A
	Max. output current (A):	No TNV circuit provided.	—
	Current limiting method:	Same as above.	—

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		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	Same as above.	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	Same as above.	N/A
7.4	Insulation between primary circuits and cable distribution systems	Same as above.	N/A
7.4.1	General	Same as above.	N/A
7.4.2	Voltage surge test	Same as above.	N/A
7.4.3	Impulse test	Same as above.	N/A

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
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)	Total mass not exceeding 18kg.	N/A
A.1.1	Samples	Same as above.	—
	Wall thickness (mm).....	Same as above.	—
A.1.2	Conditioning of samples; temperature (°C)	Same as above.	N/A
A.1.3	Mounting of samples	Same as above.	N/A
A.1.4	Test flame (see IEC 60695-11-3)	Same as above.	N/A
	Flame A, B, C or D	Same as above.	—
A.1.5	Test procedure	Same as above.	N/A
A.1.6	Compliance criteria	Same as above.	N/A
	Sample 1 burning time (s).....	Same as above.	—
	Sample 2 burning time (s).....	Same as above.	—
	Sample 3 burning time (s).....	Same as above.	—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material	Fire enclosure used approved material.	—
	Wall thickness (mm).....	Same as above.	—
A.2.2	Conditioning of samples; temperature (°C)	Same as above.	N/A
A.2.3	Mounting of samples	Same as above.	N/A
A.2.4	Test flame (see IEC 60695-11-4)	Same as above.	N/A
	Flame A, B or C	Same as above.	—
A.2.5	Test procedure	Same as above.	N/A
A.2.6	Compliance criteria	Same as above.	N/A
	Sample 1 burning time (s).....	Same as above.	—
	Sample 2 burning time (s).....	Same as above.	—
	Sample 3 burning time (s).....	Same as above.	—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	Same as above.	N/A
	Sample 1 burning time (s).....	Same as above.	—
	Sample 2 burning time (s).....	Same as above.	—
	Sample 3 burning time (s).....	Same as above.	—
A.3	Hot flaming oil test (see 4.6.2)	Fire enclosure used approved material.	N/A
A.3.1	Mounting of samples	Same as above.	N/A

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
A.3.2	Test procedure	Same as above.	N/A
A.3.3	Compliance criterion	Same as above.	N/A

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements	No motor provided.	N/A
	Position	Same as above.	—
	Manufacturer	Same as above.	—
	Type	Same as above.	—
	Rated values	Same as above.	—
B.2	Test conditions	Same as above.	N/A
B.3	Maximum temperatures	Same as above.	N/A
B.4	Running overload test	Same as above.	N/A
B.5	Locked-rotor overload test	Same as above.	N/A
	Test duration (days)	Same as above.	—
	Electric strength test: test voltage (V)	Same as above.	—
B.6	Running overload test for d.c. motors in secondary circuits	Same as above.	N/A
B.6.1	General	Same as above.	N/A
B.6.2	Test procedure	Same as above.	N/A
B.6.3	Alternative test procedure	Same as above.	N/A
B.6.4	Electric strength test; test voltage (V)	Same as above.	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	Same as above.	N/A
B.7.1	General	Same as above.	N/A
B.7.2	Test procedure	Same as above.	N/A
B.7.3	Alternative test procedure	Same as above.	N/A
B.7.4	Electric strength test; test voltage (V)	Same as above.	N/A
B.8	Test for motors with capacitors	Same as above.	N/A
B.9	Test for three-phase motors	Same as above.	N/A
B.10	Test for series motors	Same as above.	N/A
	Operating voltage (V)	Same as above.	—

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		P
	Position	(see appended table 1.5.1)	—
	Manufacturer	(see appended table 1.5.1)	—
	Type	(see appended table 1.5.1)	—

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
	Rated values	(see appended table 1.5.1)	—
	Method of protection	(see appended table 1.5.1)	—
C.1	Overload test	(see appended table 5.3)	P
C.2	Insulation	(see appended table C.2)	P
	Protection from displacement of windings	(see appended table C.2)	P

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		P
D.1	Measuring instrument	Figure D.1 used.	P
D.2	Alternative measuring instrument	Not applicable.	N/A

E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N/A
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F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		P
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G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Clearances	Not applicable.	N/A
G.1.1	General	Same as above.	N/A
G.1.2	Summary of the procedure for determining minimum clearances	Same as above.	N/A
G.2	Determination of mains transient voltage (V)	Same as above.	N/A
G.2.1	AC mains supply	Same as above.	N/A
G.2.2	Earthed d.c. mains supplies	Same as above.	N/A
G.2.3	Unearthed d.c. mains supplies	Same as above.	N/A
G.2.4	Battery operation	Same as above.	N/A
G.3	Determination of telecommunication network transient voltage (V)	Same as above.	N/A
G.4	Determination of required withstand voltage (V)	Same as above.	N/A
G.4.1	Mains transients and internal repetitive peaks	Same as above.	N/A
G.4.2	Transients from telecommunication networks	Same as above.	N/A
G.4.3	Combination of transients	Same as above.	N/A
G.4.4	Transients from cable distribution systems	Same as above.	N/A
G.5	Measurement of transient voltages (V)	Same as above.	N/A
	a) Transients from a mains supply	Same as above.	N/A
	For an a.c. mains supply	Same as above.	N/A
	For a d.c. mains supply	Same as above.	N/A

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Transients from a telecommunication network	Same as above.	N/A
G.6	Determination of minimum clearances	Same as above.	N/A

H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
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J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		P
	Metal(s) used	Metals which the combination electrochemical potential is less than 0.6V.	—

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A
K.1	Making and breaking capacity	No thermal controls provided.	N/A
K.2	Thermostat reliability; operating voltage (V)	Same as above.	N/A
K.3	Thermostat endurance test; operating voltage (V)	Same as above.	N/A
K.4	Temperature limiter endurance; operating voltage (V)	Same as above.	N/A
K.5	Thermal cut-out reliability	Same as above.	N/A
K.6	Stability of operation	Same as above.	N/A

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		P
L.1	Typewriters	Not such type.	N/A
L.2	Adding machines and cash registers	Not such type.	N/A
L.3	Erasers	Not such type.	N/A
L.4	Pencil sharpeners	Not such type.	N/A
L.5	Duplicators and copy machines	Not such type.	N/A
L.6	Motor-operated files	Not such type.	N/A
L.7	Other business equipment	Continuous operation at rated output load.	P

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction	No ringing signals provided.	N/A
M.2	Method A	Same as above.	N/A
M.3	Method B	Same as above.	N/A
M.3.1	Ringing signal	Same as above.	N/A
M.3.1.1	Frequency (Hz)	Same as above.	—
M.3.1.2	Voltage (V)	Same as above.	—

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Clause	Requirement + Test	Result - Remark	Verdict
M.3.1.3	Cadence; time (s), voltage (V)	Same as above.	—
M.3.1.4	Single fault current (mA)	Same as above.	—
M.3.2	Tripping device and monitoring voltage	Same as above.	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Same as above.	N/A
M.3.2.2	Tripping device	Same as above.	N/A
M.3.2.3	Monitoring voltage (V)	Same as above.	N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		N/A
N.1	ITU-T impulse test generators	No such construction.	N/A
N.2	IEC 60065 impulse test generator	Same as above.	N/A
P	ANNEX P, NORMATIVE REFERENCES		P
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		P
	a) Preferred climatic categories	Varistor is certified component, see appended table 1.5.1.	P
	b) Maximum continuous voltage	Same as above.	P
	c) Pulse current	Same as above.	P
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	No such construction.	N/A
R.2	Reduced clearances (see 2.10.3)	Same as above.	N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment	No such construction.	N/A
S.2	Test procedure	Same as above.	N/A
S.3	Examples of waveforms during impulse testing	Same as above.	N/A
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
		IPX0	—
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
		Certified triple insulated wire used. (see appended table 1.5.1)	—

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		P
V.1	Introduction	See below.	P
V.2	TN power distribution systems	Single-phase TN power system considered and used for testing. 230V for Norway.	P

W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits	Not used.	N/A
W.1.1	Floating circuits	Same as above.	N/A
W.1.2	Earthed circuits	Same as above.	N/A
W.2	Interconnection of several equipments	Same as above.	N/A
W.2.1	Isolation	Same as above.	N/A
W.2.2	Common return, isolated from earth	Same as above.	N/A
W.2.3	Common return, connected to protective earth	Same as above.	N/A

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N/A
X.1	Determination of maximum input current	Not apply for.	N/A
X.2	Overload test procedure	Same as above.	N/A

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Y.1	Test apparatus	Not apply for.	N/A
Y.2	Mounting of test samples	Same as above.	N/A
Y.3	Carbon-arc light-exposure apparatus	Same as above.	N/A
Y.4	Xenon-arc light exposure apparatus	Same as above.	N/A

Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		P
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AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
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BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—
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CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
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IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
CC.1	General	No such part.	N/A
CC.2	Test program 1.....:	Same as above.	N/A
CC.3	Test program 2.....:	Same as above.	N/A

DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment		N/A
DD.1	General	No such part.	N/A
DD.2	Mechanical strength test, variable N.....:	Same as above.	N/A
DD.3	Mechanical strength test, 250N, including end stops.....:	Same as above.	N/A
DD.4	Compliance.....:	Same as above.	N/A

EE	ANNEX EE, Household and home/office document/media shredders		N/A
EE.1	General	No such part.	N/A
EE.2	Markings and instructions	Same as above.	N/A
	Use of markings or symbols.....:	Same as above.	N/A
	Information of user instructions, maintenance and/or servicing instructions.....:	Same as above.	N/A
EE.3	Inadvertent reactivation test.....:	Same as above.	N/A
EE.4	Disconnection of power to hazardous moving parts:	Same as above.	N/A
	Use of markings or symbols.....:	Same as above.	N/A
EE.5	Protection against hazardous moving parts	Same as above.	N/A
	Test with test finger (Figure 2A):	Same as above.	N/A
	Test with wedge probe (Figure EE1 and EE2):	Same as above.	N/A

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾	
1. Enclosure (Plastic)	Chi Mei Corporation	PA-765A(+)	V-1; 80°C; Min. 1,5 mm thickness	UL 94 UL 746	UL	
(Alternate)	Sabic Innovative Plastics B V (or Japan and US)	C6200(GG)	V-0; 75°C; Min. 1,5 mm thickness	UL 94 UL 746	UL	
(Alternate)	Teijin Polycarbonate Singapore Pte Ltd	LN-1250G#(f1)*	V-0; 105°C; Min. 1,0 mm thickness	UL 94 UL 746	UL	
2. PCB	Various	Variuos	Rated V-1 or better 130°C	UL 796	UL	
3. Appliance Inlet (P1)	Supercom Electronics Co., Ltd.	SC-14	250 V a.c.; 2,5 A; 70°C	EN 60320-1	FIMKO	
4. Fuse (F1)	Conquer electronics	PTU	250 V a.c.; T1AH	EN 60127-1 EN 60127-2	VDE	
5. Bleeder resisters (R1,R2)	Various	Various	1/4 W; 1 M (SMD type)	IEC 60950-1	Tested in equipment	
6. Varistor (ZP1)	Joyin Company Ltd.	JVR14N471K	Climatic category: 40/85/56 Maximum continuous voltage: 300 V a.c. Current pulse rating: 6 kV/3 kA	IEC 61051-1 IEC 61051-2 IEC 61051-2-2 CECC 42000 CECC 42200 CECC 42201 IEC 60065 Clause 14.12 and IEC 60950-1 Annex Q	VDE	
(Alternate)	Centra Science Corp.	CNR14D471K	Climatic category: 40/85/56 Maximum continuous voltage: 300 V a.c. Current pulse rating: 6 kV/3 kA	IEC 61051-1 IEC 61051-2 IEC 61051-2-2 CECC 42000 CECC 42200 CECC 42201 IEC 60065 Clause 14.12 and IEC 60950-1 Annex Q	VDE	
7. Y-capacitor	TDK	CS	250 Va.c.; 1000	EN 60384-14	VDE FIMKO	

IEC 60950-1/Am1					
Clause	Requirement + Test			Result - Remark	Verdict
1.5.1	TABLE: List of critical components				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾
(C2,C3)			pF; Y2; 125°C		
8. Bridging Capacitor (C9)	Panasonic Corporation (Matsushita)	NS-A	250 Va.c.; 1000 pF; Y1; 125°C	EN 60384-14	VDE FIMKO
9. X-capacitor (C1)	Cheng Tung Industrial	CTX	300 V a.c.; 0,47 µF; X1; 100°C	IEC 60384-14	VDE FIMKO
10. Line Choke (L1)	Taiwan Transmore Electronics Co., Ltd.	UU10.5	130°C	IEC 60950-1	--
11. Transformer (T1) (MIT-07XX-1818CC)	Taiwan Transmore Electronics Co., Ltd.	13-01MIT07-18V5	Class B	IEC 60950-1	--
(MIT-07XX-2024CC)	Taiwan Transmore Electronics Co., Ltd.	13-01MIT07-24V5	Class B	IEC 60950-1	--
(MIT-07XX-1748CC and MIT-07XX-2448CC)	Taiwan Transmore Electronics Co., Ltd.	13-01MIT07-48V	Class B	IEC 60950-1	--
12. Triple insulation wire (Use in all Transformer)	Furukawa Electric Co. Ltd.	TEX-E	Reinforced insulation Class E(120°C)	IEC 60950-1 EN 60950-1	VDE
13. Optical Isolator (PL1)	Sharp Corporation	PC123	Di = 0,7 mm Int = 5,0 mm Ext = 8,0 mm	EN 60950-1	FIMKO
(Alternate)	Lite-On Technology Corporation	LTV817	Di = 0,8 mm; Int dcr = 5,2 mm Ext dcr = 0,8 mm	IEC 60950-1 EN 60950-1	FIMKO
(Alternate)	Everlight Electronics Co., Ltd.	EL817.	Di = 0,5 mm Int = 6,0 mm Ext = 7,7 mm	EN 60950-1	FIMKO
Supplementary information:					
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.1	TABLE: Opto Electronic Devices		N/A
Manufacturer			
Type			
Separately tested			
Bridging insulation			
External creepage distance			
Internal creepage distance			
Distance through insulation			
Tested under the following conditions			
Input			
Output			
supplementary information			

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
Model No.: MIT-07XX-1818CC							
90	0,403	-	22,6	F1	0,403	47 Hz / Max. Normal Load	
90	0,402	-	22,5	F1	0,402	63 Hz / Max. Normal Load	
100	0,359	0,5	22,2	F1	0,359	47 Hz / Max. Normal Load	
100	0,364	0,5	22,2	F1	0,364	63 Hz / Max. Normal Load	
240	0,206	0,5	22,2	F1	0,206	47 Hz / Max. Normal Load	
240	0,205	0,5	22,2	F1	0,205	63 Hz / Max. Normal Load	
264	0,194	-	22,3	F1	0,194	47 Hz / Max. Normal Load	
264	0,192	-	22,3	F1	0,192	63 Hz / Max. Normal Load	
Model No.: MIT-07XX-2024CC							
90	0,434	-	24,0	F1	0,434	47 Hz / Max. Normal Load	
90	0,421	-	23,7	F1	0,421	63 Hz / Max. Normal Load	
100	0,378	0,5	23,4	F1	0,378	47 Hz / Max. Normal Load	
100	0,380	0,5	23,4	F1	0,380	63 Hz / Max. Normal Load	
240	0,211	0,5	23,0	F1	0,211	47 Hz / Max. Normal Load	
240	0,213	0,5	23,1	F1	0,213	63 Hz / Max. Normal Load	

IEC 60950-1/Am1						
Clause	Requirement + Test				Result - Remark	Verdict
264	0,202	-	23,4	F1	0,202	47 Hz / Max. Normal Load
264	0,201	-	23,4	F1	0,201	63 Hz / Max. Normal Load
Model No.: MIT-07XX-1748CC						
90	0,369	-	20,8	F1	0,369	47 Hz / Max. Normal Load
90	0,372	-	20,7	F1	0,372	63 Hz / Max. Normal Load
100	0,332	0,5	20,5	F1	0,332	47 Hz / Max. Normal Load
100	0,340	0,5	20,5	F1	0,340	63 Hz / Max. Normal Load
240	0,198	0,5	20,9	F1	0,198	47 Hz / Max. Normal Load
240	0,195	0,5	20,8	F1	0,195	63 Hz / Max. Normal Load
264	0,187	-	21,3	F1	0,187	47 Hz / Max. Normal Load
264	0,187	-	21,3	F1	0,187	63 Hz / Max. Normal Load
Model No.: MIT-07XX-2448CC						
90	0,557	-	30,7	F1	0,557	47 Hz / Max. Normal Load
90	0,539	-	30,5	F1	0,539	63 Hz / Max. Normal Load
100	0,487	0,5	301	F1	0,487	47 Hz / Max. Normal Load
100	0,475	0,5	299	F1	0,475	63 Hz / Max. Normal Load
240	0,256	0,5	293	F1	0,256	47 Hz / Max. Normal Load
240	0,266	0,5	29,4	F1	0,266	63 Hz / Max. Normal Load
264	0,244	-	29,7	F1	0,244	47 Hz / Max. Normal Load
264	0,251	-	29,7	F1	0,251	63 Hz / Max. Normal Load
Supplementary information:						

2.1.1.5 c) 1)	TABLE: max. V, A, VA test					p
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)		
supplementary information: See 2.1.1.5						

2.1.1.5 c) 2)	TABLE: stored energy			N/A
Capacitance C (μF)	Voltage U (V)	Energy E (J)		
supplementary information:				

2.2	TABLE: evaluation of voltage limiting components in SELV circuits	N/A
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IEC 60950-1/Am1				
Clause	Requirement + Test	Result - Remark		Verdict
Component (measured between)		max. voltage (V) (normal operation)		Voltage Limiting Components
		V peak	V d.c.	
Model No.: MIT-07XX-1818CC				
After T1	--	28	After D3	
Model No.: MIT-07XX-2024CC				
After T1	--	36	After D3	
Model No.: MIT-07XX-2448CC				
After T1	--	56	After D3	
Fault test performed on voltage limiting components		Voltage measured (V) in SELV circuits (V peak or V d.c.)		
Model No.: MIT-07XX-1818CC				
D3 short	0V			
Model No.: MIT-07XX-2024CC				
D3 short	0V			
Model No.: MIT-07XX-2448CC				
D3 short	0V			
supplementary information:				

2.5	TABLE: limited power sources			P
Model No.: MIC-07XX-1748CC				
Circuit output tested: Output				
Measured Uoc (V) with all load circuits disconnected: 49.2				
	I _{sc} (A)		VA	
	Meas.	Limit	Meas.	Limit
Normal condition	0.86	≤3.0 (150/49.2)	42.7	≤100
Single fault: ZD1 short	0.87	≤3.0 (150/49.2)	43.1	≤100
Single fault: R15 short	1.9	≤3.0 (150/49.2)	95.2	≤100
Single fault: R12 short	0.52	≤3.0 (150/49.2)	28.7	≤100
Model No.: MIC-07XX-2024CC				
Circuit output tested: Output				
Measured Uoc (V) with all load circuits disconnected: 24.5Vdc				

IEC 60950-1/Am1					
Clause	Requirement + Test	Result - Remark		Verdict	
		I _{sc} (A)		VA	
		Meas.	Limit	Meas.	Limit
	Normal condition	1.56	≤8	38.02	≤100
	Single fault: ZD1 short	1.59	≤8	39.41	≤100
	Single fault: R15 short	2.6	≤8	62.29	≤100
Single fault: R12 short	1.04	≤8	25.82	≤100	
Circuit output tested: MIC-07XX-1818CC					
Measured Uoc (V) with all load circuits disconnected: 18.62Vdc					
		I _{sc} (A)		VA	
		Meas.	Limit	Meas.	Limit
	Normal condition	2.45	≤8	25.12	≤100
	Single fault: ZD1 short	2.48	≤8	25.44	≤100
	Single fault: R15 short	3.04	≤8	54.47	≤100
Single fault: R12 short	1..8	≤8	21.14	≤100	
Circuit output tested: MIC-07XX-2448CC					
Measured Uoc (V) with all load circuits disconnected: 48.9Vdc					
		I _{sc} (A)		VA	
		Meas.	Limit	Meas.	Limit
	Normal condition	0.8	≤3.06 (150/48.9)	38.76	≤100
	Single fault: ZD1 short	0.82	≤3.06 (150/48.9)	38.96	≤100
	Single fault: R15 short	1.8	≤3.06 (150/48.9)	84.5	≤100
Single fault: R12 short	0.62	≤3.06 (150/48.9)	29.3	≤100	
supplementary information: See clause 2.5					
Sc=Short circuit, Oc=Open circuit					

2.10.2	Table: working voltage measurement			P
Location		RMS voltage (V)	Peak voltage (V)	Comments
Between T1		222	504	
supplementary information:				

IEC 60950-1/Am1							
Clause	Requirement + Test			Result - Remark			Verdict
2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						N/A
Clearance (cl) and creepage distance (cr) at/of/between:		U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:							
L → N (before F1)		420	250	1.5	7.0	2.5	10.9
Basic/supplementary:							
Trace between F1 two leads		420	250	2.0	14.5	2.5	14.5
Primary trace to earth trace		420	250	2.0	2.5	2.5	6.5
Reinforced:							
C4 to P2		420	250	4.0	5.3	5.0	9.5
L1 to P2		420	250	4.0	8.7	5.0	13.8
under PL1		420	250	4.0	5.0	5.0	8.0
under T1(Pin 2 to pin 6)		504	222	4,4	4,6	5,0	8,3
Supplementary information:							

2.10.5	TABLE: Distance through insulation measurements						P
Distance through insulation (DTI) at/of:			U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
Optical isolator (PL1)			< 420	< 250	3000 V a.c.	0,4	0,5
Mylar sheet			< 420	< 250	3000 V a.c.	0,4	> 0,4
Supplementary information:							

4.3.8	TABLE: Batteries								N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available									
Is it possible to install the battery in a reverse polarity position?									
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									

IEC 60950-1/Am1									
Clause	Requirement + Test					Result - Remark			Verdict
4.3.8	TABLE: Batteries								N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available									
Is it possible to install the battery in a reverse polarity position?									
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during fault condition									
Test results:									Verdict
- Chemical leaks									
- Explosion of the battery									
- Emission of flame or expulsion of molten metal									
- Electric strength tests of equipment after completion of tests									
Supplementary information:									

4.3.8	TABLE: Batteries	N/A
Battery category	(Lithium, NiMh, NiCad, Lithium Ion ...)	
Manufacturer		
Type / model		
Voltage		
Capacity	mAh	
Tested and Certified by (incl. Ref. No.)		
Circuit protection diagram:		

MARKINGS AND INSTRUCTIONS (1.7.12, 1.7.15)

Location of replaceable battery	
Language(s):	

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict
Close to the battery			
In the servicing instructions			
In the operating instructions			

4.5	TABLE: Thermal requirements						P
	Supply voltage (V)	90Vac, 63Hz	264Vac , 63Hz	--	--	--	—
	Ambient T _{min} (°C)	--	--	--	--	--	—
	Ambient T _{max} (°C)	50	50	--	--	--	—
Maximum measured temperature T of part/at::		T (°C)					Allowed T _{max} (°C)
Model No.: MIT-07XX-1818CC							
AC Inlet		59,1	54,5	--	--	--	70
L1 coil		108,0	77,2	--	--	--	130
ZP1 body		80,1	70,9	--	--	--	100
C1 body		94,7	77,5	--	--	--	105
PCB near BD1		92,6	79,9	--	--	--	130
T1 coil		83,2	81,1	--	--	--	110
T1 core		86,9	84,6	--	--	--	110
PCB near T1		91,3	91,9	--	--	--	130
C9 body		79,9	79,0	--	--	--	105
PL1 body		68,6	67,2	--	--	--	100
PCB near D3		77,9	76,4	--	--	--	130
C12 body		60,3	59,7	--	--	--	105
PCB near C13		61,7	60,9	--	--	--	130
Enclosure inside		59,7	58,2	--	--	--	-
Enclosure outside		55,3	54,0	--	--	--	95
Model No.: MIT-07XX-2024CC							
AC Inlet		59,5	55,0	--	--	--	70
L1 coil		93,4	81,3	--	--	--	130
ZP1 body		86,3	75,3	--	--	--	100
C1 body		92,6	77,8	--	--	--	105
PCB near BD1		103,3	88,0	--	--	--	130
T1 coil		89,7	88,4	--	--	--	110
T1 core		93,9	91,4	--	--	--	110
PCB near T1		84,4	81,3	--	--	--	130
C9 body		87,7	85,6	--	--	--	105

IEC 60950-1/Am1							
Clause	Requirement + Test			Result - Remark			Verdict
PL1 body	70,3	66,7	--	--	--		100
PCB near D3	80,2	83,4	--	--	--		130
C12 body	63,6	65,6	--	--	--		105
PCB near C13	63,8	64,3	--	--	--		130
Enclosure inside	65,4	65,2	--	--	--		-
Enclosure outside	57,6	57,4	--	--	--		95
Model No.: MIT-07XX-2448CC							
AC Inlet	61,1	58,0	--	--	--		70
L1 coil	111,4	91,1	--	--	--		130
ZP1 body	84,9	82,6	--	--	--		100
C1 body	96,7	91,9	--	--	--		105
PCB near BD1	101,9	100,4	--	--	--		130
T1 coil	91,7	97,4	--	--	--		110
T1 core	92,2	97,6	--	--	--		110
PCB near T1	89,7	98,1	--	--	--		130
C9 body	93,8	87,5	--	--	--		105
PL1 body	79,9	82,6	--	--	--		100
PCB near D3	80,7	84,1	--	--	--		130
C12 body	72,1	75,2	--	--	--		105
PCB near C13	71,1	73,6	--	--	--		130
Enclosure inside	73,0	75,2	--	--	--		-
Enclosure outside	64,3	65,6	--	--	--		95
Supplementary information:							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
Supplementary information:							

4.5.5	TABLE: Ball pressure test of thermoplastic parts			P
	Allowed impression diameter (mm)	:	≤ 2 mm	—
Part		Test temperature (°C)	Impression diameter (mm)	
L1 Bobbin		126.4	1.1	
T1 Bobbin		125	0.8	
Supplementary information:				

IEC 60950-1/Am1			
Clause	Requirement + Test	Result - Remark	Verdict

4.7	TABLE: Resistance to fire					P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
Supplementary information: see component list.						

5.1	TABLE: touch current measurement			P
Measured between:		Measured (mA)	Limit (mA)	Comments/conditions
Model No.: MIT-07XX-2448CC				
L to Earth		0.16	3.5	
N to Earth		0.16	3.5	
supplementary information:				

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Model No.: MIT-07XX-2448CC, MIT-07XX-2024CC, MIT-07XX-1818CC				
Functional:				
Basic/supplementary:				
Unit: Primary to Earth	DC	2506	No	
Reinforced:				
Unit: Primary to Secondary	DC	4242	No	
Unit: Primary to Plastic Enclosure with foil	DC	4242	No	
T1 Primary to secondary of 13-01MIT07-18V5	AC	3000	No	
T1 Secondary to core of 13-01MIT07-18V5	AC	3000	No	
T1 Primary to secondary of 13-01MIT07-24V5	AC	3000	No	
T1 Secondary to core of 13-01MIT07-24V5	AC	3000	No	
T1 Primary to secondary of 13-01MIT07-48V	AC	3000	No	
T1 Secondary to core of 13-01MIT07-48V	AC	3000	No	
Two layers of insulation tape used in T1	AC	3000	No	
Supplementary information:				

IEC 60950-1/Am1						
Clause	Requirement + Test				Result - Remark	
5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C) :				50	—
	Power source for EUT: Manufacturer, model/type, output rating :				--	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
BD1 (1-4)	S	264 V a.c.	< 1 s	F1	0	Fuse(F1)opened; CD(BD1); NT; NB; NC
C4	S	264 V a.c.	< 1 s	F1	0	Fuse(F1)opened; CD(BD1); NT; NB; NC
Q1 (G-D)	S	264 V a.c.	< 1 s	F1	0	Fuse(F1)opened; CD(Q1); NT; NB; NC
Q1 (D-S)	S	264 V a.c.	< 1 s	F1	0	Fuse(F1)opened; CD(Q1); NT; NB; NC
Q1 (G-S)	S	264 V a.c.	10 min	F1	0,21→ 0,04	Unit shutdown; NT; NB; NC
PL1 (1-2)	S	264 V a.c.	10 min	F1	0,21→ 0,07	Unit shutdown; NT; NB; NC
PL1 (3-4)	S	264 V a.c.	10 min	F1	0,21→ 0,06	Unit shutdown; NT; NB; NC
T1 (5-6)	S	264 V a.c.	10 min	F1	0,21→ 0,09	Unit shutdown; NT; NB; NC
18 V Output	O/L	264 V a.c.	10 h 21 min	F1	0,274→ 0,04	Load 1,5 A stable; Load 1,7 A Unit shutdown; Max. temp.T1 Coil / Core: 97,5 °C / 103,7 °C; Ambient: 24,1 °C; NT; NB; NC
24 V Output	O/L	264 V a.c.	8 h 2 min	F1	0,302→ 0,09	Load 1,2 A stable; Load 1,5 A Unit shutdown; Max. temp.T1 Coil / Core:107,2 °C / 89,1 °C; Ambient: 25,6 °C; NT; NB; NC
48 V Output	O/L	264 V a.c.	23 h 36 min	F1	0,308→ 0,06	Load 0,65 A stable; Load 0,8 A Unit shutdown; Max. temp. T1 Coil / Core: 94,2 °C / 93,7 °C; Ambient: 24,5 °C; NT; NB; NC
18 V Transformer	O/L	264 V a.c.	24 h 31 min	F1	0,28→ 0,06	Load 1,5 A stable; Load 1,7 A Unit shutdown; Max. temp.T1 Coil / Core: 105 °C / 95,5 °C; Ambient: 25 °C; NT; NB; NC
24 V Transformer	O/L	264 V a.c.	20 h 44 min	F1	0,343→ 0,07	Load 1,5 A stable; Load 1,7 A Unit shutdown; Max. temp. T1 Coil / Core: 110,7 °C / 112,3 °C; Ambient: 25,3 °C; NT; NB; NC

IEC 60950-1/Am1						
Clause	Requirement + Test				Result - Remark	Verdict
48 V Transformer	O/L	264 V a.c.	23 h 42 min	F1	0,353→0,07	Load 0,8 A stable; Load 0,9 A Unit shutdown; Max. temp. T1 Coil / Core: 101,9 °C / 98,1 °C; Ambient: 24.9 °C; NT; NB; NC
18 V Output	S	264 V a.c.	10 min	F1	0,206→0,05	Unit shutdown; NT; NB; NC
24 V Output	S	264 V a.c.	10 min	F1	0,213→0,08	Unit shutdown; NT; NB; NC
48 V Output	S	264 V a.c.	10 min	F1	0,198→0,06	Unit shutdown; NT; NB; NC
Supplementary information:						

C.2	TABLE: transformers						P
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 to Secondary (Reinforced)	504	222	3000Vac	4.4	5.0	0.4
T1	Secondary to Core	504	222	3000Vac	4.4	5.0	0.4
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
T1	Primary to Secondary (Reinforced)			3000Vac	7.0	7.0	--
T1	Secondary to Core			3000Vac	7.0	7.0	--
supplementary information:							

C.2	TABLE: transformers	P
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Test Results and Calculations

EQUIPMENT LIST

TABLE: EQUIPMENT LIST						P
No.	Manufacturer	Name	Model No.	Ser. No.	Calibration Date	Calibration Due Date
1	IDRC	Power Meter	CP-350	355920	2011-05-04	2012-05-04
2	CHROMA	Electronic Load	6312	63120271	2011-05-04	2012-05-04
3	MULTI	AC/DC Clamp Meter	230	96834	2011-07-01	2012-07-01
4	ED&D	Test Wire	TRP-02	20915	2011-09-02	2012-09-02
5	Vibration Source	Reactive type vibration test	VS-5060M Program 1.10 edition	2090	2010-10-13	2011-10-13
6	PTL	Socket-Outlet Torque tester	F37.16	5050003	2011-03-04	2012-03-04
7	ED&D	Impact Test Ball	ITB-01	PSE 7	2011-04-01	2012-04-01
8	EXTECH PSE ASIA	HIPOT, INSULATION Instrument for IEC 69050-1 IEC 60065 instrument for UL 1310	7451 PSE-DSTI HPA-UL	1310153 PSE 8 0702	2011-01-26	2012-01-26
9	PSE	Cord Torsion Tester	PSE-C01	PSE 9	2011-03-04	2012-03-04
10	YOKOGAWA	THERMQ RECORDER	UR1000	12V510639	2011-09-02	2012-09-02
11	FLUKE	Dual Display Meter	45	5865114	2010-10-08	2011-10-08
12	YOKOGAWA	THERMQ RECORDER ter	UR1000	12V510633	2011-09-02	2012-09-02
13	FRANCO	Pointer Clock	TW-2552	112387	2011-03-04	2012-03-04
15	SIMPSON	Leakage Current Meter	228	PSE 15	2011-02-16	2012-02-16
16	YOKOGAWA	THERMQ RECORDER	UR1000	12V510637	2011-09-02	2012-09-02
17	INTERTEK	Pink-Noise Generator	NG8280	104	2011-04-01	2012-04-01
18	ED&D	Test Hook	TH-01	20918	2010-12-10	2011-12-10
19	SHIBA	TV Generator	SOKU/216/1	M-76912	2011-03-04	2012-03-04
20	ASIA QTECH	Rod pressure	RP-UL	0701	2011-05-04	2012-05-04
21	YOKOGAWA	THERMQ RECORDER	UR1000	12V510638	2011-08-12	2012-08-12

22	ADVANTEST	Optical Power Meter	TQ8210	120301563	2010-12-16	2011-12-16
23	ED&D	Test Pin	HLP-01	20916	2010-12-10	2011-12-10
24	EXTECH	Leakage Current Meter	7611	1330416	2011-02-16	2012-02-16
25	TEKTRONIX	Oscilloscope	TDS 320	B020889	2011-08-12	2012-08-12
26	YOKOGAWA	THERMQ RECORDER	DR130	12W51251 6	2011-02-16	2012-02-16
27	ASIA QTECH	Test Finger	TFP-1	0707	2011-05-04	2012-05-04
28	RAY-RAN	Vicat softening Point System	RR HDV2	RR/HDV2/ 075	2011-04-01	2012-04-01
29	ED&D	Test Rod	TRP-01	20917	2010-12-10	2011-12-10
30	CHROMA	Electronic Load	6314	63141170	2011-05-04	2012-05-04
31	TOHNICHI	TORQUE DRIVER	RTD260CN	413344N	2011-06-24	2012-06-24
32	CHROMA	Electronic Load	6314	63146569	2011-04-01	2012-04-01
33	CHROMA	Electronic Load	6314	63146570	2011-04-01	2012-04-01
34	TESTING	Thermometer/Timer Needle Flame Burner Barrel	T3-53 T4-31 T4-33	10/05 30/05 30/05	2011-03-04	2012-03-04
35	CHROMA	Electronic Load	6314	63141173	2011-05-04	2012-05-04
36	GIANT FORCE	Chamber	GPO-125	MAK1007- 007	2011-07-01	2012-07-01
37	CHROMA	Electronic Load	6314	63146571	2011-03-04	2012-03-04
38	GOTECH	Cord Anchorage Tester	7305-A	TC040238 5	2011-04-01	2012-04-01
39	PTL	Impact-Test Apparatus	F 22.50	5021025	2011-01-26	2012-01-26
40	MITUTOYO	Caliper	CD-6"CSX	06057621	2011-01-26	2012-01-26
41	YOKOGAWA	THERMQ RECORDER	DR231-00-32-1 D	12B823473	2011-09-02	2012-09-02
42	ED&D	Test Finger	ULP-01	20920	2011-09-02	2012-09-02
43	PSE	Pin With Different Diameters	PSE-D01	PSE 43	2011-03-04	2012-03-04
44	MITUTOYO	MICRO METER	293-821	65081055	2011-04-01	2012-04-01

45	SAMPO	Function Generator	FG 1627	50800067	2011-03-04	2012-03-04
46	HONGDI	Measuring Tape	26-5019	N339A061 215336396	2011-01-26	2012-01-26
47	TOHNICHI	TORQUE DRIVER	RTD60CN	433336Q	2011-06-24	2012-06-24
48	ED&D	Test Probe	TTP-01	20919	2010-12-10	2011-12-10
49	TOHNICHI	Torque Gauge	15BTG-S	503304S	2011-06-24	2012-06-24
50	ASIA QTECH	Resistor	950-2K-2W	95011	2011-07-01	2012-07-01
51	IDRC	Power Meter	CP-350	355921	2011-05-04	2012-05-04
52	CHROMA	Electronic Load	6312	63120244	2011-05-04	2012-05-04
53	ATTREZZATURE	Glow-Wire Tester	02.06	002160/05	2011-01-26	2012-01-26
54	PSE	Steel Ball	PSE-BO1	PSE-54	2011-05-04	2012-05-04
55	CHROMA	Electronic Load	6312	63120268	2011-07-01	2012-07-01
56	CHUYI	IMPULSE	IEC-950	91005	2011-05-04	2012-05-04
57	PLT	SURGE	H 06e	5011395	2011-03-04	2012-03-04
58	ALGOL	Push Pull Gauge	HF-50	HF-104872	2011-06-02	2012-06-02
59	CHROMA	Electronic Load	6314	63141181	2011-05-04	2012-05-04
60	GIANT FORCE	Chamber	GTH-225-40-1 P-U	MAA0406- 019	2011-05-04	2012-05-04
61	TEKTRONIX	Oscilloscope	TDS-3032B	B015275	2010-11-05	2011-11-05
62	SIMPSON	Leakage Current Meter	229-2	PSE 62	2010-11-05	2011-11-05
64	YOKOGAWA	THERMQ RECORDER	DR130	47JE0095	2011-05-04	2012-05-04
65	LUTRON	Millohm Meter	MO-2001	L093865	2011-03-04	2012-03-04
66	CHROMA	Electronic Load	6314	63141179	2011-05-04	2012-05-04
67	ASIA QTECH	Resistor	950-5K	0603	2011-01-19	2012-01-19
68	ASIA	Ball-Pressure apparatus	PSE-B02	BPT-1	2011-08-12	2012-08-12
69	CHROMA	Electronic Load	6304	63042081	2011-05-04	2012-05-04
70	PSE	Test Pin	PSE-TP01	PSE 70	2011-05-04	2012-05-04
71	CHROMA	Electronic Load	6312	63120257	2011-05-04	2012-05-04
72	MITUTOYO	Caliper	CD-6"CSX	06057625	2011-01-26	2012-01-26
73	CHROMA	Electronic Load	6314	63141184	2011-05-04	2012-05-04

74	YOKOGAWA	THERMQ RECORDER	DR 130	7700GC39 0	2010-11-05	2011-11-05
75	YOKOGAWA	THERMQ RECORDER	DR 130	7700GC38 7	2010-11-05	2011-11-05
76	POLYCAST	Pitch Angle Calculator	PATENT 4125490	PSE 76	2010-12-10	2011-12-10
77	CHROMA	Electronic Load	6304	63042076	2011-05-04	2012-05-04
78	CHROMA	Electronic Load	6314	63146573	2011-04-01	2012-04-01
79	ED&D	SHARP EDGE TESTER	SET-50	PSE 79	2011-06-02	2012-06-02
80	WAVETEK	DMM	DM28XT	PSE 80	2011-05-04	2012-05-04
81	VOLTECH	POWER ANALYZER	PM 100	AX124/275 0	2011-06-02	2012-06-02
82	YOKOGAWA	THERMQ RECORDER	DR 230	91G43457 3	2011-05-04	2012-05-04
83	PSE	GRADUATION	NO.1	PSE 83	2010-10-08	2011-10-08
84	Vibration Source	Mechanical Shock	SHOCK--2	0T97	2011-08-01	2012-08-01
85	Hipotronics	AC, DC HIPOT, INSULATION	HD140	029105009 205	2011-07-01	2012-07-01
87	PINTEK	High Voltage Probe	HVP-40	20073092	2010-12-10	2011-12-10
88	GIANT FORCE	Chamber	GTH-150-40-C P-AR	MAA0903- 006	2011-01-26	2012-01-26
89	ED&D	Test Probe	AG-03	PSE 89	2011-05-04	2012-05-04
90	ALL VICTORY	Wire & Plug Bending Tester (90°)	AVI-61010-FPT	T20090601	2011-07-01	2012-07-01
91	CASIO	Timekeeper	HS-5	1B02P291	2010-11-05	2011-11-05
92	YOKOGAWA	THERMQ RECORDER	DR 130	12W51251 5	2011-06-02	2012-06-02
93	PSE	Over Voltage Machine	CS90104	IJ-0354,IJ- 0434	2011-03-04	2012-03-04
94	YOKOGAWA	THERMQ RECORDER	DR 130	27D51876 1	2011-06-02	2012-06-02
95	YOKOGAWA	THERMQ RECORDER	DR 130	27D23682 6	2011-06-02	2012-06-02

96	YOKOGAWA	THERMQ RECORDER	DR 130	27D23682 8	2011-06-02	2012-06-02
98	CHROMA	Electronic Load	6314	63146574	2011-04-01	2012-04-01
99	CHROMA	Electronic Load	6314	63146575	2011-04-01	2012-04-01
100	CHROMA	Electronic Load	6314	63146576	2011-04-01	2012-04-01
101	CHROMA	Electronic Load	6314	63146577	2011-04-01	2012-04-01
102	YOKOGAWA	THERMQ RECORDER	DR 230	27D63152 5	2011-06-02	2012-06-02
103	ASIA QTECH	Accessibility Probe	BEP-1	0702	2011-01-26	2012-01-26
104	ISUZU	Aneroid Barometer	B-125-ON	0115311-9 9	2010-11-03	2011-11-03
105	YOKOGAWA	THERMQ RECORDER	DR 230	91G43457 0	2011-05-04	2012-05-04
106	YOKOGAWA	THERMQ RECORDER	DR 230	91G43457 1	2011-05-04	2012-05-04
107	YOKOGAWA	THERMQ RECORDER	DR 230	91G43457 2	2011-05-04	2012-05-04
109	ED&D	Steel Ball	ITB-04	PSE0 109	2011-05-04	2012-05-04
110	C SUN	Chamber	HC-B6L	CS022913	2011-01-26	2012-01-26
111	ALL VICTORY	Wire & Plug Bending Tester (270°)	AVI-61010-RF	T20090601	2011-07-01	2012-07-01
112	ALL VICTORY	Vacuum Oven	AVI-62133-LP	L20090601	2010-12-10	2011-12-10
113	ALL VICTORY	Battery Pressure Tester	AVI-61010-CR	C2009060 1	2011-07-01	2012-07-01
114	JUSTICE	Tumbling Barrel	JIA-D20	11075	2011-05-04	2012-05-04
115	SHIMADZU	Electronic Balance	BL-2200H	D4552012 75	2011-06-02	2012-06-02
116	QTECHASIC	U1, U2	65-LEAK	65014	2011-09-02	2012-09-02
117	ED&D	Test Finger	UFP-01	0601	2011-09-02	2012-09-02
118	ASIA QTECH	Antenna Coaxial	CTP-1	0701	2011-01-26	2012-01-26
119	FUJI	Radius Gages	272MB	PSE 119	2011-09-02	2012-09-02
120	ASIA QTECH	Small Finger Probe ϕ 5.6	CTF-01	0601	2011-09-02	2012-09-02
121	ASIA QTECH	Small Finger Probe ϕ 8.6	CTF-02	0601	2011-09-02	2012-09-02

122	PSE	800N test tool	GY-E816	0601	2011-09-02	2012-09-02
124	YOKOGAWA	THERMQ RECORDER	DR 130	12W51251 7	2010-11-30	2011-11-30
125	ALL VICTORY	Tracking Index Tester	AVI-60112-TT	T20090601	2011-07-01	2012-07-01
126	IDRC	Power Meter	CP-350	357073	2010-11-05	2011-11-05
127	PSE	Resistor	50K	PSE 127	2011-07-01	2012-07-01
128	PSE	Current measuring circuit	61010 A.3	PSE 128	2011-07-01	2012-07-01
129	SATRUE	Electronic Balance	SA-H1000	09020010	2011-07-01	2012-07-01
130	TES	LUX meter	TES-1330A	080400959	2010-10-08	2011-10-08
131	SATO KEIRYOKI	Thermo hygrograph	SK-L200TH II α	019430	2011-04-01	2012-04-01
132	SATO KEIRYOKI	Thermo hygrograph	SK-L200TH II α	019414	2011-05-04	2012-05-04
133	ATLANTIS	Hydraulic gage	DPG-V3.0-30-2 P-D MG-15-W-9V MG-15-W-9V MG-15-W-9V	090519007 090519017 090519039 090519010	2011-08-12	2012-08-12
B1	PSE	Test Hardwood For Drop	surface Hardwoodx 18 mmx1 Bottom Plywood x 2 (Total 38 mm)	--	--	--
B3	PSE	Steel Plate	With blades holes	--	--	--
B4	PSE	Two Maple Blocks	>0.5 in	--	--	--
B5	PSE	Vinyl Tile	3.2mm	--	--	--
B6	TYPE/TIPO QO	GFCI	240Vac / 15A	--	--	--
B7	UND	GFCI	120Vac / 20A	--	--	--
B8	PSE	Variable Resistor	1 Ω / 1000W	--	--	--
B9	PSE	Variable Resistor	3 Ω , 4 Ω , 5 Ω , 75 Ω / 500W	--	--	--

B10	PSE	Variable Resistor	75 Ω ,100 Ω / 300W	--	--	--
B11	Cotek	DC Power Source	12Vdc / 18Vdc / 24Vdc / 48Vdc / 2000W min	--	--	--
B12	ANMO	Digital Microscope	10x~50x, 200x	--	--	--
B13	PSE	Petroleum spirit	1 l = 0.68Kg	--	--	--
B14	C SUN	CHAMBER	SMO-2	CS 034843	--	--
B15	PSE	Concrete floor	--	--	--	--
B16	PSE	Test enclosure Annex D 61347-1	610x610x610m m	--	--	--
B17	PSE	Draught proof enclosure Annex F 61347-1	1800x1800x 2000 mm	--	--	--
B18	PSE	Hardwood	>700Kg/m ³	--	--	--
B19	ASIA QTECH	Antenna Coaxial	CTP-TW	--	--	--
B20	CHROMA	DC Power Source	60V / 1200W / 20A	--	--	--
B21	PSE	AC load	60000W	--	--	--
B22	PSE	Test box for UL1993	6"	--	--	--
B23	PSE	Test box for UL1993	8"	--	--	--

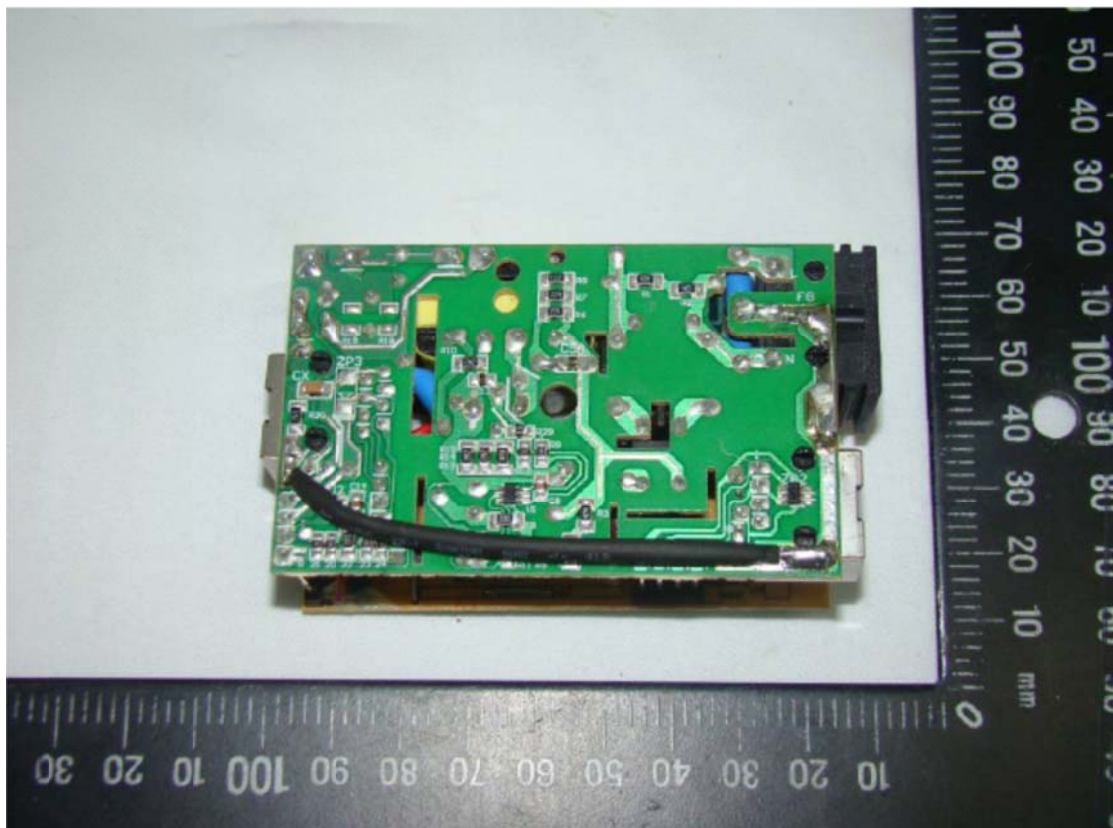
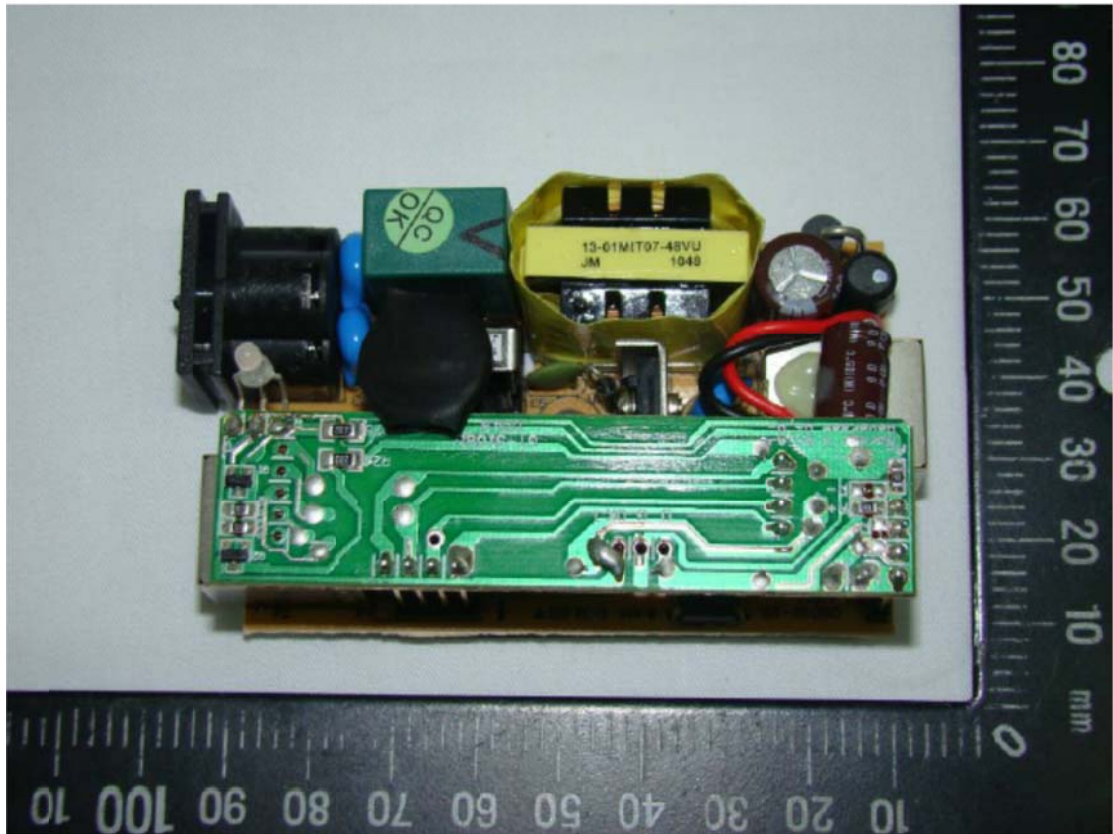


User's Instruction and Photos

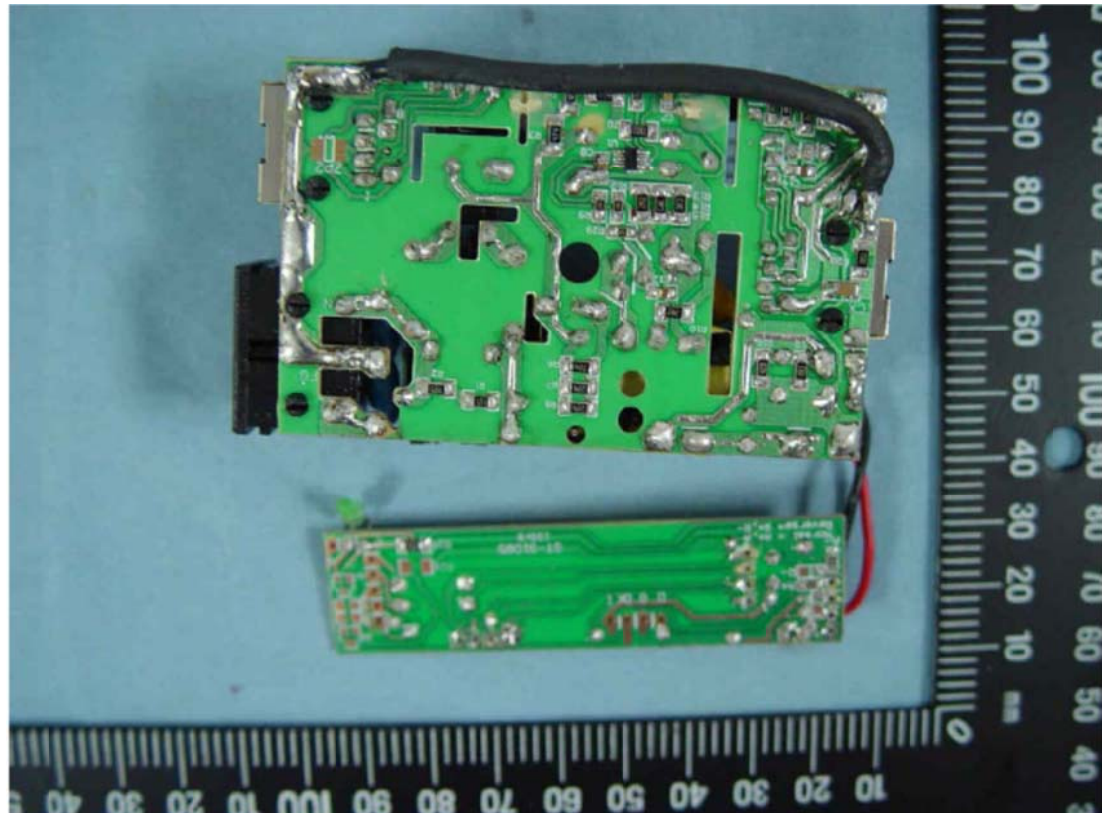
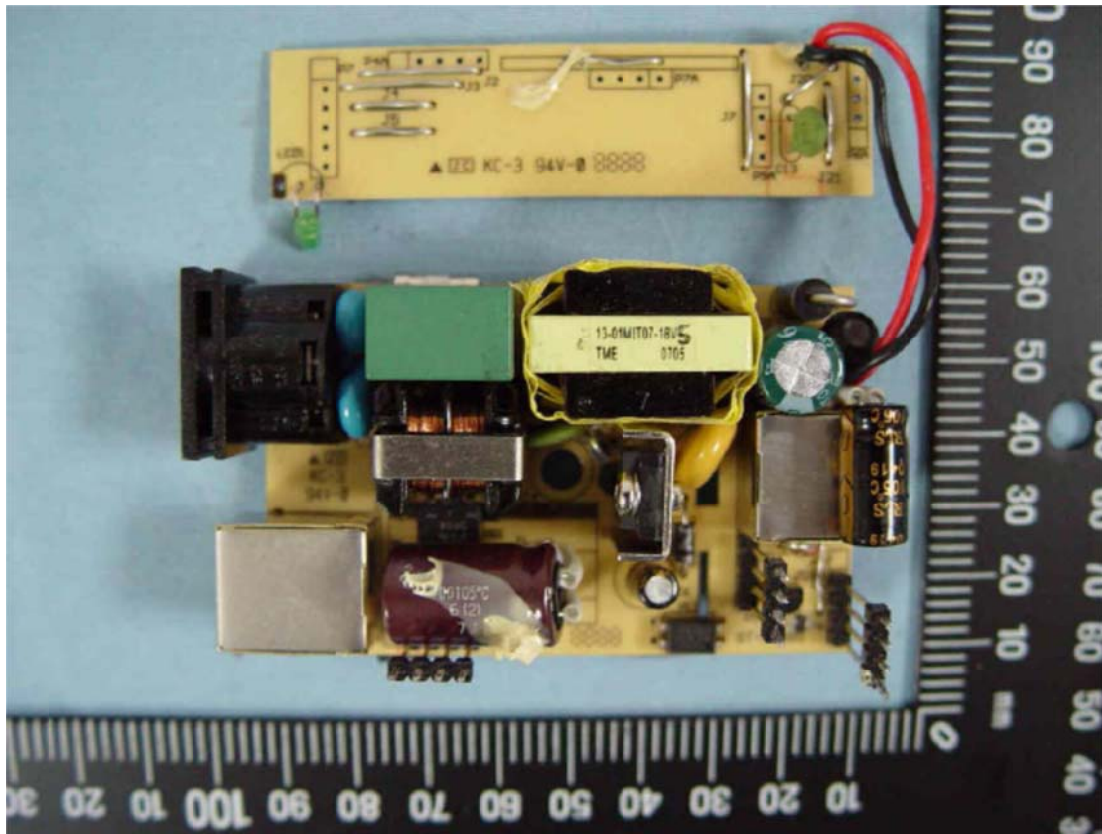




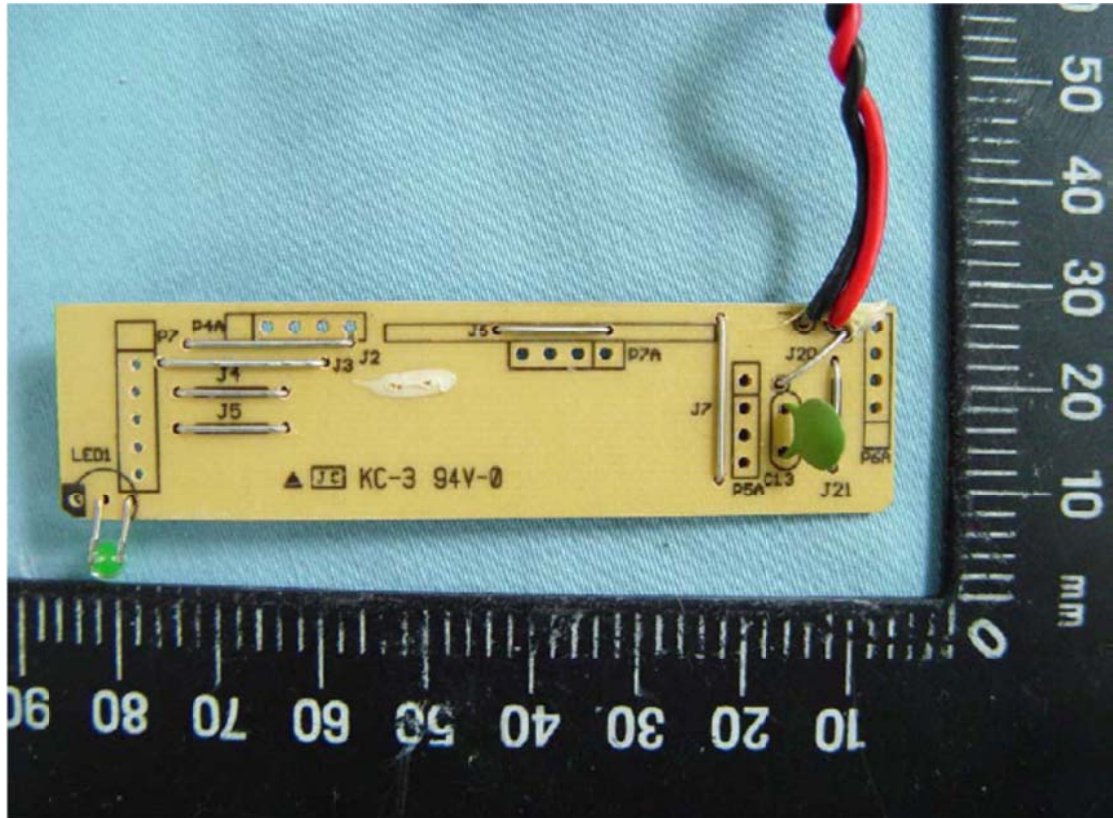
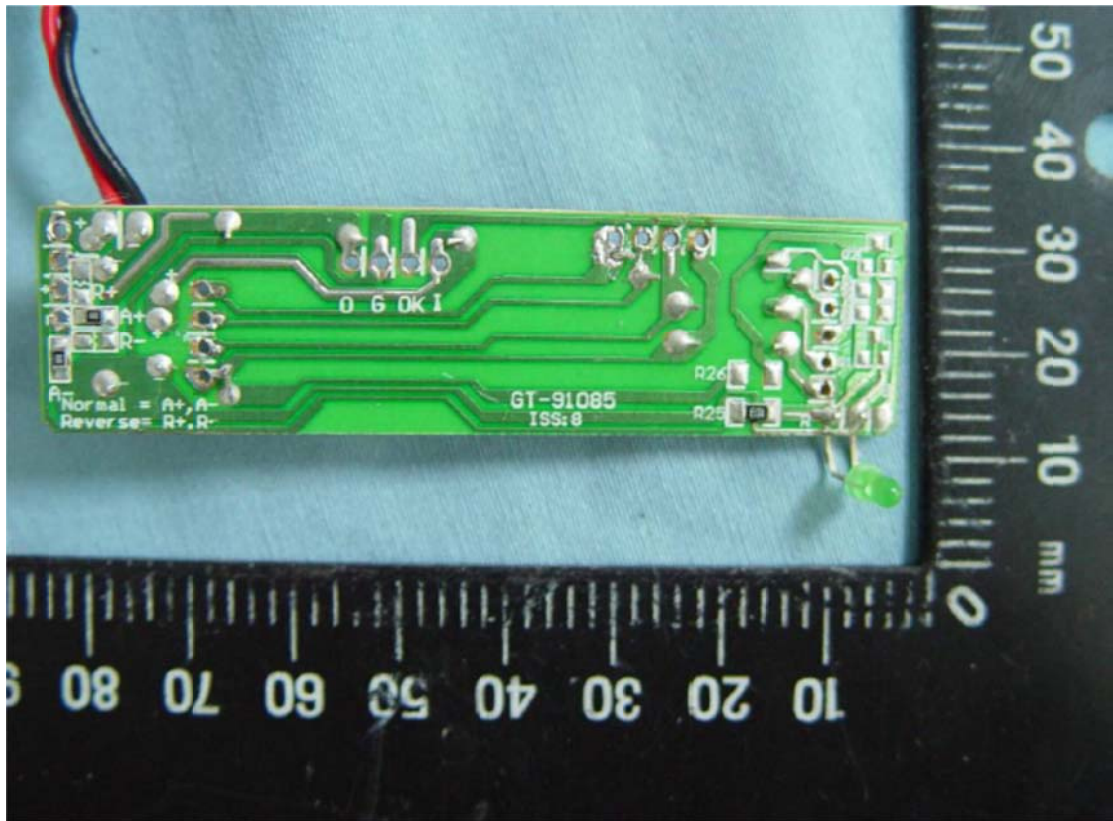
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