

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Listing
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	Switching Adapter
Model:	GT-81088-WWVV-X.X-W2 series: WW is the standard rated output wattage, with a maximum "6" VV is the standard rated output voltage designation, with a maximum value of "12"; -X.X is optional or blank and denotes the output voltage differentiator, subtracting or adding X.X volts from standard output voltage VV in 0.1V increments, blank is to indicate the no voltage different. VV-X.X together denotes the voltage range from 5.0 to 7.5Vdc and 8.0 to 12.0Vdc
Rating:	Input: 100 - 240 Vac, 50/60 Hz, 0.2 A Output: 5.0 to 7.5 Vdc, 0.01 to 1.0A, 5.2W maximum or 8.0 to 12.0 Vdc, 0.01 to 0.75A, 6W maximum.
Applicant Name and Address:	GLOBTEK (SUZHOU) CO LTD BLDG 4, #76 JINLING EAST RD SUZHOU PARK SUZHOU JIANGSU 215021 CHINA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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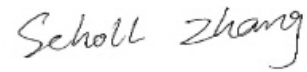
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Report Reference # E336418-A43-UL

Prepared by: Michelle Xu
Underwriters Laboratories Inc.

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Reviewed by: Scholl Zhang
Underwriters Laboratories Inc.

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Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

The equipment is a series of Switching Power Adapters for general use with information technology equipment.

Line and Neutral wire (Input wire) are mechanically secured and glued to L/N terminals of Input Blade; other end secured and solder to PWB. Consisted electrical components mounted on PWB, housed in plastic enclosure.

Model Differences

See enclosure 7-02 for model differences.

Technical Considerations

- Equipment mobility : direct plug-in
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10% (Manufacturer declared)
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : No
- Class of equipment : Class II (double insulated)


- Considered current rating (A) : 20
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : less than 2000
- Altitude of test laboratory (m) : less than 2000
- Mass of equipment (kg) : 0.07
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50°C
- The means of connection to the mains supply is: Pluggable A
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Plug (Input Blades) ,
- The product was investigated to the following additional standards: Direct Plug-in Equipment comply with UL1310 mechanical assembly requirements. "The blade configuration had been evaluated and found compliant with Standard for Wiring Devices-Dimensional Specifications, ANSI/NEMA WD6".
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output connector for all models
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Additional Information

N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number

Power rating - Model	Model Number
Power rating - Class II symbol	Symbol for Class II construction  (60417-2-IEC-5172)
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.
Output Marking	Optional marked with "LPS" or "Limited Power Source"
Special Instructions to UL Representative Inspect the transformer(s) listed in BD1.1 per AA1.1-(C). When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in BD1.1 be conducted at the component manufacturer.	

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All Models	Transformer T1	N/A	Primary to Secondary	300 0	4242	1

Earthing Continuity Test Exemptions - This test is not required for the following models:

All Models in this report.

Electric Strength Test Exemptions - This test is not required for the following models:

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Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A					

TABLE: List of Critical Components

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
01. Enclosure	Various	Various	Two pieces construction secured together by ultrasonic welding. See Enclosure ID 4-01 for dimensions details.	--	--
01-1. Material of Enclosure	Sabic Innovative Plastics Us L L C	SE1X	Rated V-1, 105 degree C. Minimum 2.0 mm thick from top and bottom, minimum 2.5 mm thick from the sides. (HAI 0, HWI 0)	QMFZ2	UL
01-1a. Material of Enclosure (Alternate)	Sabic Innovative Plastics Us L L C	SE100X	Rated V-1, 80 degree C. Minimum 2.0 mm thick from top and bottom, minimum 2.5 mm thick from the sides. (HAI 0, HWI 2)	QMFZ2	UL
02. Label	Various	Various	Rated minimum 65 degree C, suitable for surface applied to Enclosure.	PGDQ2 or PGJ12	UL
03. Output Cable	Various	Various	Non-detachable, maximum 3.05 m long, FEP, PTFE, PVC, TFE neoprene, polyimide or marked VW-1, minimum 80 degree C, minimum 20 V, minimum 26 AWG. One end mechanically secured then soldered to PWB and with glues, not to touch primary, other end is terminated in molded on connector.	AVLV2	UL
04. Strain Relief	Various	Various	Minimum V-2. Integral molded to Output Cable. Strain Relief provided with a molded-on anti-kink bushing held in place by integral slots in top and bottom enclosure. For Strain Relief. See Enclosure ID. 4-02 for construction details.	QMFZ2	UL
05. Input Blades	--	--	Two copper alloy blades are injection molded to plastic Enclosure. Blades located minimum 5.1 mm from Enclosure edge. See Enclosure ID 4-03 for Blade dimensions.	--	--
06. Material of Blade Holder	Sabic Innovative Plastics Us L L C	SE1X	Rated V-0, 90 degree C, minimum 2.6 mm thick (HAI 2, HWI 2).	QMFZ2	UL
07. Internal Primary L/N Wires	Various	Various	FEP, PTFE, PVC, TFE, neoprene or surface marked VW*1; rated minimum 80 degree C, minimum 300 V. One end mechanically secured and soldered to contact spring; other end mechanically secured and soldering to PWB. The wires shall be fixed by glue.	AVLV2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
08. Insulating Tubing / Sleeving (Optional)	Various	Various	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; minimum 105 degree C, minimum 300 V.	UZFT2, YDTU2 or YDPU2	UL
09. Printed Wiring Board	Various	Various	Minimum V-1. Minimum 105 degree C.	ZPMV2	UL
10. Fuse (F1)	Various	Various	Rated T1A or T2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX	UL, VDE
10a. Fuse (F1) (Alternate)	Conquer Electronics Co Ltd	PTU	Rated T1A or T2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX2	UL, VDE
10b. Fuse (F1) (Alternate)	Schurter AG	SPT 5x20	Rated T1A or T2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX2	UL, VDE
10c. Fuse (F1) (Alternate)	Littelfuse Inc	677 Series	Rated T1A or T2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX2	UL, VDE
10d. Fuse (F1) (Alternate)	Littelfuse Inc	876	Rated F2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX2	UL, VDE
10e. Fuse (F1) (Alternate)	Littelfuse Inc	877	Rated T2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX2	UL, VDE
10f. Fuse (F1) (Alternate)	Shenzhen Lanson Electronics Co Ltd	3N	Rated T1A or T2A, 250 V, pig - tai fuse leads soldered to PCB. The body provided with Insulation Tubing / Sleeving (Optional). Fuse ratings marking adjacent to Fuse.	JDYX2	UL, VDE
10g. Fusible Resistor (F1) (Alternate)	Tzai Yuan	KNF	4.7ohm, 1W. The body provided with Insulation Tubing / Sleeving (Optional).	--	--
10h. Fusible Resistor (F1) (Alternate)	VIS Electronics Ltd.	FRT	4.7ohm, 1W. The body provided with Insulation Tubing / Sleeving (Optional).	FPEW2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
10i. Fusible Resistor (F1) (Alternate)	Jiangsu Xinyang Electronic Component Co Ltd	RF10-1W	4.7ohm, 1W. The body provided with Insulation Tubing / Sleeving (Optional).	FPEW2	UL
10j. Fusible Resistor (F1) (Alternate)	Shimeng Electronic (ShenZhen) Co., Ltd.	FKN	4.7ohm, 1W. The body provided with Insulation Tubing / Sleeving (Optional).	--	--
11. Varistor (MOV1) (Optional)	Uppermost Electronic Industries Co Ltd	V07K275, V10K275, V14K275	275Vac, 350Vdc	VZCA2	UL
11a. Varistor (MOV1) (Optional) (Alternate)	Uppermost Electronic Industries Co Ltd	V07K300, V10K300, V14K300	300Vac, 385Vdc	VZCA2	UL
11b. Varistor (MOV1) (Optional) (Alternate)	Centra Science Corp	CNR07D431K	275Vac, 350Vdc	VZCA2	UL
11c. Varistor (MOV1) (Optional) (Alternate)	Centra Science Corp	CNR10D431K, CNR14D431K	275Vac, 350Vdc	VZCA2	UL
11d. Varistor (MOV1) (Optional) (Alternate)	Centra Science Corp	CNR07D471K	300Vac, 385Vdc	VZCA2	UL
11e. Varistor (MOV1) (Optional) (Alternate)	Centra Science Corp	CNR10D471K, CNR14D471K	300Vac, 385Vdc	VZCA2	UL
11f. Varistor (MOV1) (Optional) (Alternate)	Joyin Co Ltd	7N431K, 10N431K, 14N431K	275Vac, 350Vdc	VZCA2	UL
11g. Varistor (MOV1) (Optional) (Alternate)	Joyin Co Ltd	7N471K,	300Vac, 385Vdc	VZCA2	UL
11h. Varistor (MOV1) (Optional) (Alternate)	Joyin Co Ltd	10N471K, 14N471K	300Vac, 385Vdc	VZCA2	UL
11i. Varistor (MOV1) (Optional) (Alternate)	Walsin Technology Corp	VZ7D431K, VZ10D431K, VZ14D431K	250Vac, 350Vdc	VZCA2	UL
11j. Varistor (MOV1) (Optional) (Alternate)	Walsin Technology Corp	VZ7D471K, VZ10D471K, VZ14D471K	300Vac, 385Vdc	VZCA2	UL
11k. Varistor (MOV1) (Optional) (Alternate)	Dongguan Littelfuse Electronics Co Ltd	SAS-431KD07 SAS-431KD10 SAS-431KD14 MOV-431KD07	275Vac, 350Vdc	VZCA2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
		MOV-431KD10 MOV-431KD14			
11l. Varistor (MOV1) (Optional) (Alternate)	Dongguan Littelfuse Electronics Co Ltd	SAS-471KD07 SAS-471KD10 SAS-471KD14 MOV-471KD07 MOV-471KD10 MOV-471KD14	300Vac, 385Vdc	VZCA2	UL
11m. Varistor (MOV1) (Optional) (Alternate)	Panasonic Corporation, Panasonic Corporation Of North America	10K431U, 14K431U	275Vac, 350Vdc	VZCA2	UL
11n. Varistor (MOV1) (Optional) (Alternate)	Panasonic Corporation, Panasonic Corporation Of North America	10K471U, 14K471U	300Vac, 385Vdc	VZCA2	UL
11o. Varistor (MOV1) (Optional) (Alternate)	Thinking Electronic Industrial Co Ltd	TVR07431 TVR10431 TVR14431	275Vac, 350Vdc	VZCA2	UL
11p. Varistor (MOV1) (Optional) (Alternate)	Thinking Electronic Industrial Co Ltd	TVR07471 TVR10471 TVR14471	300Vac, 385Vdc	VZCA2	UL
11q. Varistor (MOV1) (Optional) (Alternate)	Jya-Nay Co Ltd	7D431K, 10D431K, 14D431K	275Vac, 350Vdc	VZCA2	UL
11r. Varistor (MOV1) (Optional) (Alternate)	Jya-Nay Co Ltd	7D471K, 10D471K, 14D471K	300Vac, 385Vdc	VZCA2	UL
12. Choke (LF1) (Optional)		30C-040120-XXH (XX = 00-99 for marking use)	Rated minimum 105 degree C. Open type construction. Core: Ferrite. Copper magnet wire wound on bobbin. See Enclosure ID 4-04 for details.	--	--
12a. Choke (LF1) (Optional) (Alternate)		30D-007520-XXH (XX = 00-99 for	Rated minimum 105 degree C. Core: Ferrite. Copper magnet wire wound on core. The body	--	--

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
		marking use)	provided with Insulation Tubing / Sleeving. See Enclosure ID 4-05 for details.		
13. Bridge Diodes (D1, D2, D3, D4)	--	--	Rated minimum 1 A, minimum 600 V.	--	--
14. Electrolytic Capacitor (C1 and C2)	--	--	Electrolytic Type. Rated 2.2 to 10 uF, minimum 400 V, minimum 85 degree C.	--	--
15. Foam (Optional)	Various	Various	Minimum V-2, minimum 80 degree C. Provided between PWB and Enclosure.	QMFZ2	UL
16. Bridge Capacitor (CY1) (Optional)	TDK Corp	CD	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16a. Bridge Capacitor (CY1) (Optional) (Alternate)	Murata Mfg Co Ltd	KX	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16b. Bridge Capacitor (CY1) (Optional) (Alternate)	Success Electronics Co Ltd	SE	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16c. Bridge Capacitor (CY1) (Optional) (Alternate)	Success Electronics Co Ltd	SB	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16d. Bridge Capacitor (CY1) (Optional) (Alternate)	Jya-Nay Co. Ltd.	JN	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16e. Bridge Capacitor (CY1) (Optional) (Alternate)	Jyh Chung Electronics Co Ltd	JD	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16f. Bridge Capacitor (CY1) (Optional) (Alternate)	Welson Industrial Co Ltd	WD	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
16g. Bridge Capacitor (CY1) (Optional) (Alternate)	Samwha Capacitor Co Ltd	SD	Rated maximum 2200 pF, minimum 250 V. Marked with an *Y1* Certified by VDE, DEMKO or SEV. (Meets IEC60384 - 14.)	FOWX2	UL
17. Transformer (T1)	--	--	Open type construction. Core: Ferrite. Coil: Copper magnet wire-wound on bobbin. See enclosure ID 4-06 Insulation construction. The secondary used Triple Insulation Wires.	--	--

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
17-1. Insulation system of Transformer (T1)		HIS-8A	Class B	OBJY2	UL
17-2. Bobbin of Transformer (T1)	Hitachi Chemical Co Ltd	CP-J-8800	Phenolic, minimum 0.71 mm thick, rated minimum V-2, 150 degree C.	QFMZ2	UL
17-3. Insulating Tape of Transformer (T1)	3M Company Electrical Markets Div (EMD)	1350F-1, 1350F-2	Rated 130 degree C.	OANZ2	UL
17-3a. Insulating Tape of Transformer (T1) (Alternate)	Symbio Inc	MY130	Rated 130 degree C.	OANZ2	UL
17-4. Insulating Tubing of Transformer (T1) (Optional)	Zeus Industrial Products Inc	TFE-TW-300	Rated 200 degree C.	YDPU2	UL
17-5. Magnet Wire of Transformer (T1)	Various	Various	Rated 130 degree C.	OBMW2	UL
17-6. Triple Insulated Wire (T1)	Furukawa Electric Co Ltd	TEX-E	Rated 130 degree C	OBJT2	UL
17-6a. Triple Insulated Wire (T1) (Alternate)	Totoku Electric Co Ltd	TIW-E	Rated 130 degree C	OBJT2	UL
17-7. Varnish of Transformer (T1)	Hitachi Chemical Co Ltd	WP-2952F-2G, WA-238A, WF-285	Rated 130 degree C.	OBOR2	UL
17a-1. Insulation system of Transformer (T1)		YCI-130	Class B	OBJY2	UL
17a-2. Bobbin of Transformer (T1)	Sumitomo Bakelite Co Ltd	PM-9820	Phenolic, minimum 0.71 mm thick, rated minimum V-2, 150 degree C.	QFMZ2	UL
17a-2a. Bobbin of Transformer (T1) (Alternate)	Hitachi Chemical Co Ltd	CP-J-8800	Phenolic, minimum 0.71 mm thick, rated minimum V-2, 150 degree C.	QFMZ2	UL
17a-3. Insulating Tape of Transformer (T1)	3M Company Electrical Markets Div (EMD)	1350F-1, 1350F-2	Rated 130 degree C.	OANZ2	UL
17a-3a. Insulating Tape of Transformer (T1) (Alternate)	Symbio Inc	35660, 35661	Rated 130 degree C.	OANZ2	UL
17a-4. Insulating Tubing	Great Holding	TFT, TFS	Rated 200 degree C.	YDPU2	UL

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Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
of Transformer (T1) (Optional)	Industrial Co Ltd				
17a-4a. Insulating Tubing of Transformer (T1) (Optional) (Alternate)	Zeus Industrial Products Inc	TFE-TW-300, TFE-SW-600	Rated 200 degree C.	YDPU2	UL
17a-5. Magnet Wire of Transformer (T1)	Various	Various	Rated 130 degree C.	OBMW2	UL
17a-6. Triple Insulated Wire (T1)	Young Chang Silicone Co Ltd	STW-B	Rated 130 degree C	OBJT2	UL
17a-7. Varnish of Transformer (T1)	Elantas Electrical Insulation Elantas Pdg Inc	468-2(+)	Rated 130 degree C.	OBJS2	UL
17a-7a. Varnish of Transformer (T1) (Alternate)	Hitachi Chemical Co Ltd	WP-2952F-2G	Rated 130 degree C.	OBOR2	UL
18. Glue	Various	Various	Minimum V-2, minimum 80 degree C.	QMFZ2	UL
19. Thermistor (NTC1)	Various	Various	Rated 2A minimum, 5 ohm at 25 degree C min.	--	--
20. Secondary Switch (Optional)	Various	Various	Plastic part of (QMFZ2) rated minimum V-2.	--	--

Enclosures

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Overall View front side
Photographs	3-02	Overall View rear side
Photographs	3-03	Internal View top side (with Current Fuse)
Photographs	3-04	Internal View top side (with Fusible Resistor)
Photographs	3-05	Internal View top side (with alternate Choke LF1)
Photographs	3-06	Internal View bottom side
Photographs	3-07	Component side view of alternate PWB with NTC1 and LF2 (Secondary side)
Photographs	3-08	Trace side view of alternate PWB with NTC1 and LF2
Photographs	3-09	Overall View_front side (with alternate Secondary Switch)
Diagrams	4-01	Enclosure dimension
Diagrams	4-02	Strain Relief
Diagrams	4-03	Input Blades
Diagrams	4-04	Choke (LF1) (Optional)
Diagrams	4-05	Choke (LF1) (Optional) (Alternate)
Diagrams	4-06	Transformer (T1)
Diagrams	4-07	Transformer T1 (Alternate)
Schematics + PWB	5-01	PCB layout
Schematics + PWB	5-02	PCB layout (Alternate) with NTC1 and LF2 (secondary side)
Manuals		
Miscellaneous	7-01	Addition Test Table
Miscellaneous	7-02	Model differences

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Enclosure

National Differences

USA / Canada

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

USA / Canada - Differences to IEC 60950-1:2005 (Second Edition)			
1.1	Equipment able to be installed in accordance with the National Electrical Code ANSI/NFPA 70 and the Canadian Electrical Code, Part1, and when applicable, the National Electrical Safety Code, IEEE C2.		Pass
1.1.1	Equipment able to be installed in accordance with ANSI/NFPA 75 and NEC Art. 645 unless intended for use outside of computer room and provided with such instructions.		Pass
1.1.2	Equipment in wire-line communication facilities serving high-voltage electric power stations operating at greater than 1kV are excluded.		N/A
1.1.2	Special requirements apply to equipment intended for use outdoors.		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20 A.		Pass
1.5.1	All IEC standards for components identified in Annex P.1 replaced by the relevant requirements of CSA and UL component standards in Annex P.1.		Pass
1.5.1	All IEC standards for components identified in Annex P.2 alternatively satisfied by the relevant requirements of CSA and UL component standards in Annex P.2.		Pass
1.5.5	Interconnecting cables acceptable for the application regarding voltage, current, temperature, flammability, mechanical serviceability and the like.	Output is LPS and output cable is rated VW-1.	Pass
1.5.5	For other than limited power and TNV circuits, the type of output circuit identified for output connector.		N/A
1.5.5	External cable assemblies that exceed 3.05 m in length to be types specified in the NEC and CEC.		N/A
1.5.5	Detachable external interconnecting cables 3.05 m or less in length and provided with equipment marked to identify the responsible organization and the designation for the cable.		N/A
1.5.5	Building wiring and cable for use in ducts, plenums and other air handling space subject to special requirements and excluded from scope.		N/A
1.5.5	Telephone line and extension cords and the like comply with UL 1863 and CSA C22.2 No. 233.		N/A
1.6.1.2	Equipment intended for connection to a d.c. power (mains) distribution system is subject to special		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

	circuit classification requirements (e.g., TNV-2)		
1.6.1.2	Earthing of d.c. powered equipment provided.		N/A
1.7	Lamp replacement information indicated on lampholder in operator access area.		N/A
1.7.1	Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor.		N/A
1.7.1	Equipment voltage rating not higher than rating of the plug except under special conditions.		N/A
1.7.6	Special fuse replacement marking for operator accessible fuses.		N/A
1.7.7	Identification of terminal connection of the equipment earthing conductor.		N/A
1.7.7	Connectors and field wiring terminals for external Class 2 or Class 3 circuits provided with marking indicating minimum Class of wiring to be used.		N/A
1.7.7	Marking located adjacent to terminals and visible during wiring.		N/A
2.1.1.1	Bare TNV conductive parts in the interior of equipment normally protected against contact by a cover intended for occasional removal are exempt provided instructions include directions for disconnection of TNV prior to removal of the cover.		N/A
2.3.1.b	Other telecommunication signaling systems (e.g., message waiting) than described in 2.3.1(b) are subject to M.4.		N/A
2.3.1.b	For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 Vp or 60 V d.c., the maximum current limit through a 2000 Ohm or greater resistor with loads disconnected is 7.1 mA peak or 30 mA d.c. under normal conditions.		N/A
2.3.1.b	Limits for measurements across 5000 ohm resistor in the event of a single fault are replaced after 200 ms with the limits of M.3.1.4.		N/A
2.3.2.1	In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.		N/A
2.3.2.4	Enamel coating on signal transformer winding wire allowed as an alternative to Basic insulation in specific telecommunication applications when subjected to special construction requirements and		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

	routine testing.		
2.5	Overcurrent protection device required for Class 2 and Class 3 limiting in accordance with the NEC, or for a Limited Power Source, not interchangeable with devices of higher ratings if operator replaceable.		N/A
2.6	Equipment having receptacles for output a.c. power connectors generated from an internal separately derived source have the earthed (grounded) circuit conductor suitably bonded to earth.		N/A
2.6.3.3	For Pluggable Equipment Type A, if a) b) or c) are not applicable, the current rating of the circuit is taken as 20 A		N/A
2.6.3.4	Capacity of connection between earthing terminal and parts required to be earthed subject to special conditions based on the current rating of the circuit.		N/A
2.6.3.4	Protective bonding conductors and their terminals of non-standard constructions (e.g. PWB traces) evaluated to limited short-circuit test of CSA C22.2 No.0.4.		N/A
2.6.4.1	Field wiring terminals for earthing conductors suitable for wire sizes (gauge) used in US and Canada.		N/A
2.7.1	Data for selection of special external branch circuit overcurrent devices marked on the equipment.		N/A
2.7.1	Standard supply outlets protected by overcurrent device in accordance with the NEC, and CEC, Part 1.		N/A
2.7.1	Overcurrent protection for individual transformers that distribute power to other units over branch circuit wiring.		N/A
2.7.1	Additional requirements for overcurrent protection apply to equipment provided with panelboards.		N/A
2.7.1	Non-motor-operated equipment requiring special overcurrent protective device marked with device rating.		N/A
2.10.5.12	Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.12 and Annex U.		Pass
3.1.1	Permissible combinations of internal wiring/external cable sizes for overcurrent and short circuit protection.		Pass

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SubClause	Difference + Test	Result - Remark	Verdict
3.1.1	All interconnecting cables protected against overcurrent and short circuit.		Pass
3.2	Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.		Pass
3.2.1	Permitted use for flexible cords and plugs.		N/A
3.2.1	Flexible cords provided with attachment plug rated 125% of equipment current rating.		N/A
3.2.1	Any Class II equipment provided with 15 or 20 A standard supply outlets, Edison-base lampholders or single pole disconnect device provided with a polarized type attachment plug.		N/A
3.2.1.2	Equipment intended for connection to DC mains supply power systems complies with special wiring requirements (e.g., no permanent connection to supply by flexible cord).		N/A
3.2.1.2	Equipment with one pole of the DC mains supply connected to both the equipment mains input terminal and the main protective earthing terminal provided with special instructions and construction provisions for earthing		N/A
3.2.1.2	Equipment with means for connecting supply to earthing electrode conductor has no switches or protective devices between supply connection and earthing electrode connection.		N/A
3.2.1.2	Special markings and instructions for equipment with provisions to connect earthed conductor of a DC supply circuit to earthing conductor at the equipment.		N/A
3.2.1.2	Special markings and instructions for equipment with earthed conductor of a DC supply circuit connected to the earthing conductor at the equipment.		N/A
3.2.1.2	Terminals and leads provided for permanent connection of DC powered equipment to supply marked to indicate polarity if reverse polarity may result in a hazard.		N/A
3.2.3	Permanently connected equipment has provision for connecting and securing a field wiring system (i.e. conduit, or leads etc.) per the NEC and CEC, Part 1.		N/A
3.2.3	Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	(0.82 mm ²) and not less than 150 mm in length for connection of field installed wiring.		
3.2.3	If supply wires exceed 60 °C, marking indicates use of 75 °C or 90 °C wiring for supply connection as appropriate.		N/A
3.2.3	Equipment compatible with suitable trade sizes of conduits and cables.		N/A
3.2.5	Length of power supply cord limited to between 1.5 and 4.5 m unless shorter length used when intended for a special installation.		N/A
3.2.5	Conductors in power supply cords sized according to NEC and CEC, Part I.		N/A
3.2.5	Power supply cords and cord sets incorporate flexible cords suitable for the particular application.		N/A
3.2.6	Strain relief provided for non-detachable interconnecting cables not supplied by a limited power source.		N/A
3.2.9	Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.		N/A
3.2.9	Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse.		N/A
3.3	Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also comply with 3.3.		N/A
3.3	Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.		N/A
3.3.1	Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.		N/A
3.3.3	Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm ²) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention.		N/A
3.3.4	Terminals accept wire sizes (gauge) used in the U.S. and Canada.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
3.3.4	Terminals accept current-carrying conductors rated 125% of the equipment current rating.		N/A
3.3.6	Field wiring terminals marked to indicate the material(s) of the conductor appropriate for the terminals used.		N/A
3.3.6	Connection of an aluminum conductor not permitted to terminal for equipment earthing conductor.		N/A
3.3.6	Field wiring connections made through the use of suitable pressure connectors (including set screw type), solder lugs or splices to flexible leads.		N/A
3.4.2	Separate motor control device(s) required for cord-connected equipment rated more than 12 A, or with motor rated more than 1/3 hp or more than 120 V.		N/A
3.4.8	Vertically mounted disconnect devices oriented so up position of handle is "on".		N/A
3.4.11	For computer-room applications, equipment with battery systems capable of supplying 750 VA for 5 min require battery disconnect means.		N/A
4.2.8.1	Special opening restrictions for enclosures around CRTs with face dimension of 160 mm or more.		N/A
4.2.9	Compartment housing high-pressure lamp marked to indicate risk of explosion.		N/A
4.2.11	For equipment intended for mounting on racks and provided with slide/rails allowing the equipment to slide away from the rack for installation, service and maintenance, additional construction, performance and marking requirements are applicable to determine the adequacy of the slide/rails.		N/A
4.3.2	Loading test for equipment with handle(s) used to support more than 9 kg tested at four times the weight of the unit.		N/A
4.3.6	In addition to the IEC requirements, Direct Plug-in Equipment complies with UL 1310 or CSA 223 mechanical assembly requirements.	Complies with Direct Plug-In Equipment-Moment Test, Direct Plug-In Blade Secured Test, Direct Plug-In Security of Input Contacts, Direct Plug-In Resistance to Crushing Test and Direct Plug-In Rod Pressure Test.	Pass
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30(Table		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	NAE.6).		
4.3.12	Equipment using replenishable liquids marked to indicate type of liquid to be used.		N/A
4.3.13.2	Equipment that produces x-radiation and does not comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where readily visible.		N/A
4.3.13.5	Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040 and REDR C1370).		N/A
4.7	Automated information storage equipment intended to contain more than 0.76 m ³ of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.		N/A
4.7.3.1	Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations.		N/A
4.7.3.1	Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m ² or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.		N/A
4.7.3.4	Wire marked "VW-1" or "FT-1" considered equivalent.		Pass
5.1.8.2	Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.		N/A
5.1.8.3	Touch current due to ringing voltage for equipment containing telecommunication network leads.		N/A
5.3.7	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.		N/A
5.3.7	Tests interrupted by opening of a component repeated two additional times.		Pass
5.3.9.1	Test interrupted by opening of wire or trace subject to certain conditions.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
6	Specialized instructions provided for telephones that may be connected to a telecommunications network.		N/A
6	Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.		N/A
6.3	Equipment remotely powered over telecommunication wiring systems provided with specialized markings adjacent to the connection.		N/A
6.3	Overcurrent protection incorporated into equipment to provide power over telecommunication wiring system not interchangeable with devices of higher ratings if operator replaceable.		N/A
6.4	Additional requirements for equipment intended for connection to a telecommunication network using cable subject to overvoltage from power line failures (Fig. 6C).		N/A
6.4	Where 26 AWG line cord required by Fig. 6C, either the cord is provided with the equipment or described in the safety instructions.		N/A
7	Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the NEC.		N/A
H	Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020 and the Canadian Radiation Emitting Devices Act, REDR C1370.		N/A
M.2	Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.		N/A
M.4	Special requirements for message waiting and similar telecommunications signals.		N/A
NAC	Equipment intended for use with a generic secondary protector marked with suitable instructions.		N/A
NAC	Equipment intended for use with a specific primary or secondary protector marked with suitable instructions.		N/A
NAD	Acoustic pressure from an ear piece less than 136 dBA for short duration disturbances, and less than 125 dBA for handsets, 118 dBA for headsets, and 121 dBA for insert earphones, for long duration disturbances.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

NAD	Equipment connected to a telecommunication and cable distribution networks and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure requirements.		N/A
NAF	Household/Home Office Document Shredders		N/A
NAF.1.7	Markings and instructions alert the user to key safety considerations related to use of shredders, including not intended to be used by children, avoid touching document feed opening, avoid clothes and hair entanglement, and avoid aerosol products.		N/A
NAF.2.8.3	Safety interlock cannot be inadvertently activated by the articulated accessibility probe (figure NAF.1).		N/A
NAF.3.4	Provided with an isolating switch complying with 3.4.2, including 3 mm contact gap, with appropriate markings associated with the switch.		N/A
NAF.4.4	Hazardous moving parts are not accessible, as determined using the articulated accessibility probe (figure NAF.1) and the accessibility probe/wedge (figures NAF.2/NAF.3).		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

1	GENERAL		Pass
1.5	Components		Pass
1.5.1	General		Pass
	Comply with IEC 60950-1 or relevant component standard	See appended table 1.5.1	Pass
1.5.2	Evaluation and testing of components	<p>Components certified to IEC harmonized standard and checked for correct application.</p> <p>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> <p>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.</p>	Pass
1.5.3	Thermal controls		N/A
1.5.4	Transformers	Transformer used is suitable for the intended application and complies with the relevant requirements of the standard and particularly with those of Annex C.	Pass
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard. Interconnection cables is used to provide SELV/LPS/non-hazardous energy level power to other equipment.	Pass
1.5.6	Capacitors bridging insulation		N/A
1.5.7	Resistors bridging insulation		Pass
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		Pass
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	No bridging resistors.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	between a.c. mains and antenna or coaxial cable		
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		Pass
1.5.9.1	General	See Table 1.5.1.	Pass
1.5.9.2	Protection of VDRs	A fuse connected in the line phase and in series with the VDR.	Pass
1.5.9.3	Bridging of functional insulation by a VDR	VDR provided and connected in L-N.	Pass
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A
1.6	Power interface		Pass
1.6.1	AC power distribution systems	TN power system.	Pass
1.6.2	Input current	Steady state input current of the equipment did not exceed the rated current by more than 10% under Maximum Normal Load. Maximum Normal Load is continuous operation at rated output load.	Pass
1.6.3	Voltage limit of hand-held equipment	Not a hand-held equipment.	N/A
1.6.4	Neutral conductor	Class II equipment. Phase conductors were separated from BODY by reinforced insulation.	Pass
1.7	Marking and instructions		Pass
1.7.1	Power rating		Pass
	Rated voltage(s) or voltage range(s) (V)	100-240 Vac	Pass
	Symbol for nature of supply, for d.c. only	AC mains supply.	N/A
	Rated frequency or rated frequency range (Hz).....	50/60 Hz	Pass
	Rated current (mA or A)	0.2 A	Pass
	Manufacturer's name or trademark or identification mark.....	GLOBTEK (SUZHOU) CO LTD or E336418	Pass
	Model identification or type reference	Refer to the Model information at the beginning of this Test Report.	Pass
	Symbol for Class II equipment only.....	60417-1-IEC-5172 symbol marked.	Pass

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	Other markings and symbols..... :	Other symbols do not give rise to misunderstanding.	Pass
1.7.2	Safety instructions and marking	Operating/safety instructions made available to the user.	Pass
1.7.2.1	General		Pass
1.7.2.2	Disconnect devices	Direct Plug-in unit	N/A
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT Power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone		N/A
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment :	Equipment is auto-ranging.	N/A
	Method and means of adjustment; reference to installation instructions :		N/A
1.7.5	Power outlets on the equipment..... :		N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) :	Fuse marking provided as follows: F1: T1/250 V or T2 A/250 V or 4.7 ohm/1W.	Pass
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals..... :		N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and 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 :	Single AC mains supply.	N/A
1.7.10	Thermostats and other regulating devices :	No thermostats or other 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.	Pass
1.7.12	Removable parts		N/A
1.7.13	Replaceable batteries..... :		N/A

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	Language(s) :		-
1.7.14	Equipment for restricted access locations..... :	Equipment is not intended for installation in a restricted access location.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

2	PROTECTION FROM HAZARDS		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas	See below for details.	Pass
2.1.1.1	Access to energized parts	Operator can gain access only to parts at SELV.	Pass
	Test by inspection..... :	Equipment is provided with plastic enclosure without any openings.	Pass
	Test with test finger (Figure 2A) :	The test finger was unable to contact bare hazardous parts, basic insulation, or ELV circuits.	Pass
	Test with test pin (Figure 2B) :	The test pin was unable to contact bare hazardous parts.	Pass
	Test with test probe (Figure 2C) :	No TNV present.	N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm) :		-
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards :	Test on Model DSC-6PFA-05 FUS 052100 (Rated output: 5.2 Vdc/1 A): Maximum 6.26 VA (at 4.89 V and 1.28 A), maximum 5.04 Volts, maximum 1.28 Amps. Test on Model DSC-6PFA-12 FUS 120050 (Rated output: 12 Vdc/0.5 A): Maximum 6.92 VA (at 11.34 V and 0.61 A), maximum 12.01 Volts, maximum 0.64 Amps.	Pass
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s) :		-
2.1.1.8	Energy hazards - d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply .. :		N/A
	b) Internal battery connected to the mains supply :		N/A
2.1.1.9	Audio amplifiers :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A
2.2	SELV circuits		Pass
2.2.1	General requirements	See below for details.	Pass
2.2.2	Voltages under normal conditions (V) :	Between any conductors of the SELV circuit 42.4 V PK or 60 V DC are not exceeded.	Pass
2.2.3	Voltages under fault conditions (V) :	Single fault did not cause excessive voltage in accessible SELV circuit. Limits of 71 V PK and 120 V DC were not exceed.	Pass
2.2.4	Connection of SELV circuits to other circuits :	SELV circuits are only connected to other secondary circuits. SELV circuit and all interconnected circuits separated from primary by reinforced or double insulation. SELV circuit does not exceed the SELV limits under normal and fault conditions.	Pass
2.3	TNV circuits		N/A
2.3.1	Limits		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
2.4	Limited current circuits		Pass
2.4.1	General requirements	For bridging capacitor, CY1.	Pass
2.4.2	Limit values	0.7 mA peak	Pass
	Frequency (Hz) :	60 Hz	-

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	Measured current (mA)..... :	0.605 mA for normal condition	-
	Measured voltage (V) :	Measured 1.21 Vpk from CY1 to earth	-
	Measured circuit capacitance (nF or uF) :	CY1 = 2200 pF	-
2.4.3	Connection of limited current circuits to other circuits	The LIMITED CURRENT CIRCUIT connected other circuits complies with the requirements of Sub-clause 2.4.1.	Pass
2.5	Limited power sources		Pass
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output under normal operating and single fault condition		Pass
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)..... :	<p>Test on Model DSC-6PFA-05 FUS 052100 (Rated output: 5.2 Vdc/1 A):</p> <p>a. Normal condition: Maximum Uoc = 5.1 Vdc; Isc = 1.28 A; VA = 6.26 VA; Limited = 25.5 VA.</p> <p>b. L1 short condition: Maximum Uoc = 5.26 Vdc; Isc = 1.28 A; VA = 6.16 VA; Limited = 26.3 VA.</p> <p>c. Z1 open condition: Maximum Uoc = 5.1 Vdc; Isc = 1.18 A; VA = 5.78 VA; Limited = 25.5 VA.</p> <p>Test on Model DSC-6PFA-12 FUS 120050 (Rated output: 12 Vdc/0.5 A):</p> <p>a. Normal condition: Maximum Uoc = 12.01 Vdc; Isc = 0.64 A; VA = 6.92 VA; Limited = 60.05 VA.</p> <p>b. L1 short condition: Maximum Uoc = 12.03 Vdc; Isc = 0.64 A; VA = 6.98 VA; Limited = 60.15 VA.</p>	-

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		<p>c. Z1 open condition: Maximum Uoc = 12.01 Vdc; Isc = 0.62 A; VA = 6.74 VA; Limited = 60.05 VA.</p> <p>Test on Model DSC-6PFA-05 FUS 050100 (Rated output: 5 Vdc/1 A):</p> <p>a. Normal condition: Maximum Uoc = 5.08 Vdc; Isc = 1.1 A; VA = 5.37 VA; Limited = 25.4 VA.</p> <p>b. L1 short condition: Maximum Uoc = 5.1 Vdc; Isc = 1.1 A; VA = 5.39 VA; Limited = 25.5 VA.</p> <p>c. Z1 open condition: Maximum Uoc = 5.07 Vdc; Isc = 1.1 A; VA = 5.39 VA; Limited = 25.4 VA.</p>	
	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 (mm ²), AWG :		-
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm ²), AWG :		-
	Protective current rating (A), cross-sectional area (mm ²), AWG :		-
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min)..... :		N/A
2.6.3.5	Colour of insulation..... :		N/A
2.6.4	Terminals		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type, nominal thread diameter (mm) :		-
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
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		N/A
2.7	Overcurrent and earth fault protection in primary circuits		Pass
2.7.1	Basic requirements	Protective devices are integrated in the equipment.	Pass
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not covered in 5.3.7	Adequate fault protection provided.	Pass
2.7.3	Short-circuit backup protection	Pluggable equipment type A. Building installation is considered as provided short-circuit backup protection.	Pass
2.7.4	Number and location of protective devices :	One protective device in the "LIVE" phase.	Pass
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		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

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Clause	Requirement + Test	Result - Remark	Verdict
2.8.6	Overriding		N/A
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		Pass
2.9.1	Properties of insulating materials	Electric strength test was conducted after the humidity treatment. See below.	Pass
2.9.2	Humidity conditioning	48 hours	Pass
	Relative humidity (%), temperature (°C)..... :	93 %	-
2.9.3	Grade of insulation	Electric strength test conducted after the humidity treatment. No flash over or breakdown of insulation. (see sub-clause 2.10, 4.5.1, and 5.2)	Pass
2.9.4	Separation from hazardous voltages		Pass
	Method(s) used..... :	Method 1 used	-
2.10	Clearances, creepage distances and distances through insulation		Pass
2.10.1	General		Pass
2.10.1.1	Frequency..... :	Less than 30KHz	Pass
2.10.1.2	Pollution degrees..... :	PD II considered.	Pass
2.10.1.3	Reduced values for functional insulation		Pass
2.10.1.4	Intervening unconnected conductive parts		Pass
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage		Pass
2.10.2.1	General		Pass
2.10.2.2	RMS working voltage		Pass
2.10.2.3	Peak working voltage		Pass
2.10.3	Clearances	See Table 2.10.3 and 2.10.4 for details.	Pass
2.10.3.1	General		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.2	Mains transient voltages		Pass
	a) AC mains supply	Overvoltage Category II; Mains transient voltage is 2500 V peak.	Pass
	b) Earthed d.c. mains supplies		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits	See Table 2.10.3 and 2.10.4 for details.	Pass
2.10.3.4	Clearances in secondary circuits	See Sub-clause 5.3.4 for details.	Pass
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply		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		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
2.10.4	Creepage distances	See Table 2.10.3 and 2.10.4 for details.	Pass
2.10.4.1	General		Pass
2.10.4.2	Material group and comparative tracking index		Pass
	CTI tests	Material group IIIb; $100 \leq \text{CTI} < 175$.	-
2.10.4.3	Minimum creepage distances		Pass
2.10.5	Solid insulation		Pass
2.10.5.1	General		Pass
2.10.5.2	Distances through insulation	Approved photo coupler provided. (see appended table 2.10.5)	Pass
2.10.5.3	Insulating compound as solid insulation		Pass
2.10.5.4	Semiconductor devices		Pass
2.10.5.5	Cemented joints		N/A
2.10.5.6	Thin sheet material - General	(see appended table 5.2)	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.7	Separable thin sheet material		Pass
	Number of layers (pcs) :	Reinforced Insulation - 2 layers	-
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material - standard test procedure		N/A
	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		Pass
2.10.5.12	Wire in wound components	Finished component is subjected to ROUTINE TESTS for electric strength. The employed UL Recognized wiring meets Annex U.	Pass
	Working voltage :	See Table 2.10.3 and 2.10.4	Pass
	a) Basic insulation not under stress :		N/A
	b) Basic, supplementary, reinforced insulation..... :	Certified tripled insulated wired. See Table 1.5.1.	Pass
	c) Compliance with Annex U :	Certified tripled insulated wired. See Table 1.5.1.	Pass
	Two wires in contact inside wound component; angle between 45° and 90° :	Physical separation in the form of insulating sleeving provided to relieve mechanical stress at the crossover point.	Pass
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test :		-
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage :		N/A
	- Basic insulation not under stress :		N/A
	- Supplementary, reinforced insulation..... :		N/A
2.10.6	Construction of printed boards		Pass
2.10.6.1	Uncoated printed boards		Pass
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	of a printed board		
	Distance through insulation		N/A
	Number of insulation layers (pcs) :		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated 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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3	WIRING, CONNECTIONS AND SUPPLY		Pass
3.1	General		Pass
3.1.1	Current rating and overcurrent protection		Pass
3.1.2	Protection against mechanical damage	Wires are routed away from sharp edges and parts which could damage insulation.	Pass
3.1.3	Securing of internal wiring		Pass
3.1.4	Insulation of conductors	Insulation on internal conductors is considered to be of adequate quality and suitable for the application and the working voltages involved.	Pass
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	No contact pressure through insulating material.	Pass
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors	Line and Neutral wire (Input wire) are mechanically secured and glued to L/N terminals of Input Blade.	Pass
	10 N pull test		Pass
3.1.10	Sleeving on wiring		N/A
3.2	Connection to mains supply		Pass
3.2.1	Means of connection	Plug (Input Blades) for direct plug-in used.	Pass
3.2.1.1	Connection to an a.c. mains supply	Plug (Input Blades) for direct plug-in used.	Pass
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 of cable and conduits (mm)		-
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords	No power supply cords provided.	N/A
	Type.....		-
	Rated current (A), cross-sectional area (mm ²),		-

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Clause	Requirement + Test	Result - Remark	Verdict
	AWG		
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		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 of minor dimension D (mm); test mass (g)		-
	Radius of curvature of cord (mm)		-
3.2.9	Supply wiring space		N/A
3.3	Wiring terminals for connection of external conductors		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 (mm ²)		-
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		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	Plug (Input Blades) used.	Pass
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized	No accessible parts on the supply side of the disconnect device.	Pass
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment	Disconnect device disconnects all poles simultaneously.	Pass
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment	No interconnection of hazardous voltages or energy levels.	N/A
3.4.11	Multiple power sources		N/A
3.5	Interconnection of equipment		Pass
3.5.1	General requirements	See below for details.	Pass
3.5.2	Types of interconnection circuits :	SELV/LPS interconnection circuits via secondary output connector.	Pass
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection.	N/A
3.5.4	Data ports for additional equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		N/A
	Angle of 10°		N/A
	Test force (N)..... :		N/A
4.2	Mechanical strength		Pass
4.2.1	General	See below for details.	Pass
4.2.2	Steady force test, 10 N	Steady Force Test (10N) applied to components which continue to comply with the requirements of Sub clause 2.10.	Pass
4.2.3	Steady force test, 30 N	No internal enclosure.	N/A
4.2.4	Steady force test, 250 N	No hazards as a result of the 250 N test. Conducted on all sources (refer to Critical Component Table for the details) of enclosure material.	Pass
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm)..... :	No access to hazardous parts. Conducted on all sources (refer to Critical Component Table for the details) of enclosure material.	Pass
4.2.7	Stress relief test	No indication of shrinkage or distortion on enclosures due to the stress relief test (85 degree C/7 h). Conducted on all sources (refer to Critical Component Table for the details) of enclosure material.	Pass
4.2.8	Cathode ray tubes		N/A
	Picture tube separately certified :		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N) :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.3	Design and construction		Pass
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Pass
4.3.2	Handles and manual controls; force (N)..... :		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts	All hazardous parts are fixed to retain position in event of termination failure.	Pass
4.3.5	Connection by plugs and sockets	The equipment does not have any interchangeable plugs/sockets.	Pass
4.3.6	Direct plug-in equipment		Pass
	Torque :	The additional torque applied to the socket-outlet to maintain the engagement face in the vertical plane did not exceed 0.25 Nm. The force required to balance the test socket: 1N Calculated moment: 0.014 Nm	Pass
	Compliance with the relevant mains plug standard:	The blade configuration had been evaluated and found compliant with Standard for Wiring Devices-Dimensional Specifications, ANSI/NEMA WD6.	Pass
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		N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids..... :		N/A
	Quantity of liquid (l)..... :		N/A
	Flash point (°C)..... :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.3.13	Radiation		N/A
4.3.13.1	General		N/A
4.3.13.2	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		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 LED's provided.	N/A
	Laser class		-
4.3.13.6	Other types		N/A
4.4	Protection against hazardous moving parts		N/A
4.4.1	General		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		Pass
4.5.1	General		Pass
4.5.2	Temperature tests	See Table 4.5 for details.	Pass
	Normal load condition per Annex L	Maximum Normal Load is continuous operation at rated output load.	-
4.5.3	Temperature limits for materials		Pass
4.5.4	Touch temperature limits		Pass
4.5.5	Resistance to abnormal heat.....	See Table 4.5.5 for details.	Pass
4.6	Openings in enclosures		Pass
4.6.1	Top and side openings		Pass
	Dimensions (mm)	No openings provided.	-
4.6.2	Bottoms of fire enclosures		Pass
	Construction of the bottom, dimensions (mm).....	No openings provided.	-
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment	No openings provided.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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		Pass
4.7.1	Reducing the risk of ignition and spread of flame	See below for details.	Pass
	Method 1, selection and application of components wiring and materials	Method 1: Selection and application of components and materials which minimize the possibility of ignition and spread of flame.	Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	See below for details.	Pass
4.7.2.1	Parts requiring a fire enclosure	Fire enclosure covers all parts.	Pass
4.7.2.2	Parts not requiring a fire enclosure	Output circuit supplied by a LPS complying with Sub-clause 2.5 and with output cable rated minimum VW-1.	Pass
4.7.3	Materials		Pass
4.7.3.1	General	See below for details.	Pass
4.7.3.2	Materials for fire enclosures	Minimum V-1.	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	Fire enclosure covers all parts.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	All internal materials are rated V-2 or better or are mounted on a PWB rated V-1 or better Internal wiring is UL Recognized, marked VW-1 or FT-1 and strapped by individual cable ties (where needed). See Table 1.5.1 for material information	Pass
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Pass
5.1	Touch current and protective conductor current		Pass
5.1.1	General	See Sub-clauses 5.1.2 to 5.1.6 for details.	Pass
5.1.2	Configuration of equipment under test (EUT)	Equipment has only one mains connection.	Pass
5.1.2.1	Single connection to an a.c. mains supply		Pass
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit	Single phase equipment intended only for connection to star TN system.	Pass
5.1.4	Application of measuring instrument	Test made to 10 by 20 cm metal foil in contact with accessible non-conductive part. Annex D.1 used.	Pass
5.1.5	Test procedure		Pass
5.1.6	Test measurements	See below for details.	Pass
	Supply voltage (V)	264 V AC / 60 Hz	-
	Measured touch current (mA).....	(1) Output (+) (fuse in), normal polarity switch on result 0.154 mA; Reverse polarity switch on result 0.155 mA (2) Enclosure (fuse in), normal polarity switch on result 0.002 mA; Reverse polarity switch on result 0.002 mA	-
	Max. allowed touch current (mA).....	0.25 mA	-
	Measured protective conductor current (mA)		-
	Max. allowed protective conductor current (mA) ...		-
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	distribution system		
	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		Pass
5.2.1	General	See below for details.	Pass
5.2.2	Test procedure	See Table 5.2 for details.	Pass
5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation	See Table 5.3 for details.	Pass
5.3.2	Motors		N/A
5.3.3	Transformers	Transformers are constructed in accordance with the applicable Sub-clauses and Annex C.	Pass
5.3.4	Functional insulation.....	Method (c).	Pass
5.3.5	Electromechanical components	The equipment does not have any electromechanical components in the secondary.	N/A
5.3.6	Audio amplifiers in ITE.....		N/A
5.3.7	Simulation of faults	See Table 5.3 for details.	Pass
5.3.8	Unattended equipment		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.	Pass
5.3.9.1	During the tests	No fire, emission of molten metal or deformation was noted during the tests.	Pass
5.3.9.2	After the tests	Electric Strength tests performed after abnormal and fault tests.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
---	---	--	-----

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
---	---	--	-----

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
---	---	--	-----

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
---	---	--	-----

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Pass
	Position	T1	-
	Manufacturer	See Table 1.5.1 for details.	-
	Type.....	See Table 1.5.1 for details.	-
	Rated values.....	See Table 1.5.1 for details.	-
	Method of protection.....	Protection by circuit design.	-
C.1	Overload test	See Table 5.3 for details.	Pass
C.2	Insulation	(see appended table 2.10.3, 5.2, 5.3)	Pass
	Protection from displacement of windings.....	Triple insulated wire used.	Pass

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		Pass
D.1	Measuring instrument		Pass
D.2	Alternative measuring instrument		N/A

E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N/A
---	--	--	-----

F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		Pass
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Clause	Requirement + Test	Result - Remark	Verdict
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		Pass
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	Maximum Normal Load is continuous operation at rated output load.	Pass
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		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
P	ANNEX P, NORMATIVE REFERENCES		Pass
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		Pass
 :	UL Recognized wiring used.	-
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		Pass
V.1	Introduction		Pass
V.2	TN power distribution systems		Pass
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		Pass
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

1.6.2	TABLE: electrical data (in normal conditions)						Pass
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	condition/status	
--	--	--	--	--	--	Model: GT-81088-067.5-2.3-W2. Maximum Normal Load: 5.2 V / 1 A. Note: LF1 used part no. 30D-007520-XXH	
90 V / 50 Hz	0.128	--	6.7	F1	0.128	Maximum Normal Load.	
90 V / 60 Hz	0.129	--	6.7	F1	0.129	Maximum Normal Load.	
100 V / 50 Hz	0.117	0.2	6.7	F1	0.117	Maximum Normal Load.	
100 V / 60 Hz	0.118	0.2	6.6	F1	0.118	Maximum Normal Load.	
240 V / 50 Hz	0.065	0.2	6.6	F1	0.065	Maximum Normal Load.	
240 V / 60 Hz	0.066	0.2	6.6	F1	0.066	Maximum Normal Load.	
264 V / 50 Hz	0.062	--	6.7	F1	0.062	Maximum Normal Load.	
264 V / 60 Hz	0.061	--	6.8	F1	0.061	Maximum Normal Load.	
--	--	--	--	--	--	Model: GT-81088-067.5-W2. Maximum Normal Load: 7.5 V / 0.69 A. Note: LF1 used part no. 30D-007520-XXH	
90 V / 50 Hz	0.123	--	6.6	F1	0.123	Maximum Normal Load.	
90 V / 60 Hz	0.124	--	6.6	F1	0.124	Maximum Normal Load.	
100 V / 50 Hz	0.113	0.2	6.5	F1	0.113	Maximum Normal Load.	
100 V / 60 Hz	0.115	0.2	6.6	F1	0.115	Maximum Normal Load.	
240 V / 50 Hz	0.066	0.2	6.7	F1	0.066	Maximum Normal Load.	
240 V / 60 Hz	0.066	0.2	6.6	F1	0.066	Maximum Normal Load.	
264 V / 50 Hz	0.062	--	6.7	F1	0.062	Maximum Normal Load.	
264 V / 60 Hz	0.062	--	6.7	F1	0.062	Maximum Normal Load.	
--	--	--	--	--	--	Model: GT-81088-0612-4.0-W2. Maximum Normal Load: 8 V / 0.75 A. Note: LF1 used part no. 30D-007520-XXH	
90 V /	0.142	--	7.0	F1	0.142	Maximum Normal Load.	

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Clause	Requirement + Test			Result - Remark		Verdict

50 Hz						
90 V / 60 Hz	0.143	--	7.0	F1	0.143	Maximum Normal Load.
100 V / 50 Hz	0.129	0.2	7.0	F1	0.129	Maximum Normal Load.
100 V / 60 Hz	0.131	0.2	7.0	F1	0.131	Maximum Normal Load.
240 V / 50 Hz	0.073	0.2	7.0	F1	0.073	Maximum Normal Load.
240 V / 60 Hz	0.072	0.2	7.1	F1	0.072	Maximum Normal Load.
264 V / 50 Hz	0.069	--	7.1	F1	0.069	Maximum Normal Load.
264 V / 60 Hz	0.069	--	7.1	F1	0.069	Maximum Normal Load.
--	--	--	--	--	--	Model: GT-81088-0612-W2. Maximum Normal Load: 12 V / 0. 5 A. Note: LF1 used part no. 30D-007520-XXH
90 V / 50 Hz	0.134	--	7.1	F1	0.134	Maximum Normal Load.
90 V / 60 Hz	0.136	--	7.1	F1	0.136	Maximum Normal Load.
100 V / 50 Hz	0.123	0.2	7.0	F1	0.123	Maximum Normal Load.
100 V / 60 Hz	0.126	0.2	7.0	F1	0.126	Maximum Normal Load.
240 V / 50 Hz	0.072	0.2	7.0	F1	0.072	Maximum Normal Load.
240 V / 60 Hz	0.071	0.2	7.0	F1	0.071	Maximum Normal Load.
264 V / 50 Hz	0.065	--	7.0	F1	0.065	Maximum Normal Load.
264 V / 60 Hz	0.067	--	7.0	F1	0.067	Maximum Normal Load.
--	--	--	--	--	--	Model: GT-81088-0612-4.0-W2. Maximum Normal Load: 8 V / 0. 75 A. Note: LF1 used part no. 30C-040120-XXH
90 V / 50 Hz	0.145	--	7.7	F1	0.145	Maximum Normal Load.
90 V / 60 Hz	0.147	--	7.6	F1	0.147	Maximum Normal Load.
100 V / 50 Hz	0.133	0.2	7.6	F1	0.133	Maximum Normal Load.
100 V / 60 Hz	135	0.2	7.6	F1	135	Maximum Normal Load.
240 V /	0.080	0.2	7.1	F1	0.080	Maximum Normal Load.

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Clause	Requirement + Test		Verdict

50 Hz						
240 V / 60 Hz	0.082	0.2	7.2	F1	0.082	Maximum Normal Load.
264 V / 50 Hz	0.077	--	7.8	F1	0.077	Maximum Normal Load.
264 V / 60 Hz	0.078	--	8.1	F1	0.078	Maximum Normal Load.
--	--	--	--	--	--	Model: GT-81088-067.5-2.5-W2. Maximum Normal Load: 5 V / 1 A. Note: LF1 used part no. 30C-040120-XXH
90 V / 50 Hz	0.129	--	6.6	F1	0.129	Maximum Normal Load.
90 V / 60 Hz	0.132	--	6.6	F1	0.132	Maximum Normal Load.
100 V / 50 Hz	0.120	0.2	6.5	F1	0.120	Maximum Normal Load.
100 V / 60 Hz	0.122	0.2	6.4	F1	0.122	Maximum Normal Load.
240 V / 50 Hz	0.076	0.2	6.0	F1	0.076	Maximum Normal Load.
240 V / 60 Hz	0.076	0.2	5.4	F1	0.076	Maximum Normal Load.
264 V / 50 Hz	0.074	--	6.1	F1	0.074	Maximum Normal Load.
264 V / 60 Hz	0.075	--	6.1	F1	0.075	Maximum Normal Load.
Reissue 1	--	--	--	--	--	Test on Model GT-81088-067.5-2.3-W2. (5.2V/1A)
90V/50 Hz	0.128	--	6.9	F1	0.128	Maximum Normal Load
90V/60 Hz	0.127	--	6.9	F1	0.127	Maximum Normal Load
100V/50 Hz	0.115	0.2	6.9	F1	0.115	Maximum Normal Load
100V/60 HZ	0.115	0.2	6.9	F1	0.115	Maximum Normal Load
240V/50 Hz	0.064	0.2	6.8	F1	0.064	Maximum Normal Load
240V/60 Hz	0.070	0.2	7.0	F1	0.070	Maximum Normal Load
264V/50 Hz	0.061	--	6.8	F1	0.061	Maximum Normal Load
264V/60 Hz	0.066	--	7.1	F1	0.066	Maximum Normal Load
--	--	--	--	--	--	Test on Model GT-81088-067.5-W2. (7.5V/0.69A)

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Clause	Requirement + Test				Result - Remark	Verdict
90V/50 Hz	0.121	--	6.0	F1	0.121	Maximum Normal Load
90V/60 Hz	0.122	--	6.0	F1	0.122	Maximum Normal Load
100V/50 Hz	0.109	0.2	6.0	F1	0.109	Maximum Normal Load
100V/60 HZ	0.110	0.2	6.1	F1	0.110	Maximum Normal Load
240V/50 Hz	0.063	0.2	6.1	F1	0.063	Maximum Normal Load
240V/60 Hz	0.062	0.2	5.8	F1	0.062	Maximum Normal Load
264V/50 Hz	0.058	--	5.1	F1	0.058	Maximum Normal Load
264V/60 Hz	0.060	--	5.0	F1	0.060	Maximum Normal Load
--	--	--	--	--	--	Test on Model GT-81088-0612-4.0-W2. (8V/0.75A)
90V/50 Hz	0.138	--	7.0	F1	0.138	Maximum Normal Load
90V/60 Hz	0.144	--	7.0	F1	0.144	Maximum Normal Load
100V/50 Hz	0.133	0.2	7.0	F1	0.133	Maximum Normal Load
100V/60 HZ	0.134	0.2	7.0	F1	0.134	Maximum Normal Load
240V/50 Hz	0.073	0.2	7.0	F1	0.073	Maximum Normal Load
240V/60 Hz	0.074	0.2	7.0	F1	0.074	Maximum Normal Load
264V/50 Hz	0.069	--	7.0	F1	0.069	Maximum Normal Load
264V/60 Hz	0.071	--	7.0	F1	0.071	Maximum Normal Load
--	--	--	--	--	--	Test on Model GT-81088-0612-W2. (12V/0.5A)
90V/50 Hz	0.133	--	7.1	F1	0.133	Maximum Normal Load
90V/60 Hz	0.138	--	7.1	F1	0.138	Maximum Normal Load
100V/50 Hz	0.126	0.2	7.0	F1	0.126	Maximum Normal Load
100V/60 HZ	0.127	0.2	7.0	F1	0.127	Maximum Normal Load
240V/50 Hz	0.070	0.2	7.0	F1	0.070	Maximum Normal Load
240V/60 Hz	0.073	0.2	7.0	F1	0.073	Maximum Normal Load

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					Pass
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)
PWB trace under Bridge Cap (CY1)	352	223	4.0	6.6	5.0	6.6
Primary trace to Secondary trace of under Transformer T1	496	287	4.4	8.3	6.1	8.3
Primary trace of R3, R9 to Secondary trace of Z1	336	221	4.0	6.8	5.0	6.8
Trace under Fuse (F1)	340	240	1.5	2.5	2.5	2.5
Trace under L/N	340	240	1.5	2.6	2.5	2.6
Line trace to secondary Z1 trace	16	9	4.0	5.0	4.0	5.0
Reissue 1	--	--	--	--	--	--
Primary trace to Secondary trace of under Transformer T1	520	265	4.4	8.3	6.1	8.3
Functional:						
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)
Basic/supplementary:						
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)
Reinforced:						
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)
supplementary information:						
1. The CTI rating of PWB is material group IIIb (Cl. 2.10.4). 2. Separation Method between SELV and hazard circuit (Cl. 2.2.3) by double or reinforced insulation (Method 1) 3. Functional insulation shorted (method c), see Table 5.3: for Functional insulation between the phases before the fuse complies with method a). 4. T1 core is						

[illegible]

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Clause	Requirement + Test	Result - Remark	Verdict

Test results:		Verdict
- Chemical leaks		N/A
- Explosion of the battery		N/A
- Emission of flame or expulsion of molten metal		N/A
- Electric strength tests of equipment after completion of tests		N/A
supplementary information:		

4.5	TABLE: Thermal requirements						Pass
	Supply voltage (V)..... :	see below	see below	see below	see below	--	—
	Ambient Tmin (°C) :	--	--	--	--	--	—
	Ambient Tmax (°C) :	--	--	--	--	--	—
Maximum measured temperature T of part/at:		T (°C)					allowed Tmax (°C)
Test on model: GT-81088-067.5-2.3-W2.		I/P: 90V/60 Hz Maximum Normal load, Vertical	I/P: 90V/60 Hz Maximum Normal load, Horizontal	I/P: 264V/60 Hz Maximum Normal load, Vertical	I/P: 264V/60 Hz Maximum Normal load, Horizontal	--	--
--		Measured under ambient / Computed per Tma	Measured under ambient / Computed per Tma	Measured under ambient / Computed per Tma	Measured under ambient / Computed per Tma	--	--
Blade holder		58.5	58.1	57.6	57.2	--	80
C1 body (bulk cap) (2.2 uF)		68.7	69.2	62.6	63.3	--	85
LF1 coil (part no. 30D-007520-XXH)		71.9	72.2	63.8	64.0	--	105
T1 coil		75.9	75.6	76.8	77.2	--	110
T1 core		74.7	74.4	75.4	76.0	--	110
CY1 body (bridge cap)		75.9	75.5	76.5	77.3	--	85
PWB near D2		71.3	71.6	67.4	67.9	--	105
PWB near D5		80.9	80.8	80.2	80.8	--	105
PWB near D6		68.5	68.0	68.7	68.9	--	105

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Clause	Requirement + Test			Result - Remark		Verdict

PWB near U1	71.3	71.6	67.4	67.9	--	105
L1 coil	67.8	67.3	68.1	68.8	--	105
Enclosure inside near T1	68.4	68.0	67.5	67.6	--	80
Enclosure outside near T1	57.0	56.1	55.2	54.9	--	95
Ambient/ Tma	50	50	50	50	--	--
Test duration (Times)	1:06	3:03	1:26	1:29	--	--
Test on model: GT-81088-067.5-2.3-W2.	I/P: 90V/60 Hz Maxim um Normal load, Vertical	I/P: 90V/60 Hz Maxim um Normal load, Horizo ntal	I/P: 264V/6 0Hz Maxim um Normal load, Vertical	I/P: 264V/6 0Hz Maxim um Normal load, Horizo ntal	--	--
--	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	--	--
Blade holder	70.2	70.3	69.0	68.5	--	80
C1 body (bulk cap) (2.2 uF)	69.0	65.4	62.9	61.5	--	85
LF1 coil (part no. 30C-040120-XXH)	70.6	70.1	66.7	67.1	--	105
T1 coil	73.6	74.5	74.6	75.0	--	110
T1 core	72.7	73.5	73.9	74.1	--	110
CY1 body (bridge cap)	73.8	74.6	74.9	75.7	--	85
PWB near D2	69.2	69.4	66.7	66.8	--	105
PWB near D5	78.5	79.2	78.6	79.7	--	105
PWB near D6	66.0	67.7	66.5	67.9	--	105
PWB near U1	69.2	69.4	66.7	66.8	--	105
L1 coil	64.6	67.1	65.0	66.7	--	105
Enclosure inside near T1	66.8	67.2	66.9	66.6	--	80
Enclosure outside near T1	58.1	57.7	57.6	56.8	--	95
Ambient/ Tma	50	50	50	50	--	--
Test duration (Times)	1:45	1:08	1:01	1:13	--	--
Test on model: GT-81088-067.5-2.3-W2.	I/P: 90V/60 Hz Maxim um Normal load, Vertical	I/P: 90V/60 Hz Maxim um Normal load, Horizo	I/P: 264V/6 0Hz Maxim um Normal load, Vertical	I/P: 264V/6 0Hz Maxim um Normal load, Horizo	--	--

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Clause	Requirement + Test	Result - Remark	Verdict

--	Measured under ambient t/ Computed per Tma	ntal Measured under ambient t/ Computed per Tma	Measured under ambient t/ Computed per Tma	ntal Measured under ambient t/ Computed per Tma	--	--
C1 body (bulk cap) (10 uF)	60.9/70.9	58.3/68.3	53.7/63.7	55.5/65.5	--	85
Ambient/ Tma	40/50	40/50	40/50	40/50	--	--
Test duration (Times)	1:45	1:41	0:28	1:08	--	--
Test on model: GT-81088-0612-4.0-W2.	I/P: 90V/60 Hz Maximum Normal load, Vertical	I/P: 90V/60 Hz Maximum Normal load, Horizontal	I/P: 264V/60 Hz Maximum Normal load, Vertical	I/P: 264V/60 Hz Maximum Normal load, Horizontal	--	--
--	Measured under ambient t/ Computed per Tma	Measured under ambient t/ Computed per Tma	Measured under ambient t/ Computed per Tma	Measured under ambient t/ Computed per Tma	--	--
Blade holder	61.3	61.4	59.0	59.6	--	80
C1 body (bulk cap) (2.2 uF)	73.7	76.3	71.8	68.1	--	85
LF1 coil (part no. 30D-007520-XXH)	79.4	80.5	68.8	69.1	--	105
T1 coil	83.1	82.4	84.0	83.6	--	110
T1 core	80.1	79.5	80.8	80.7	--	110
CY1 body (bridge cap)	77.9	76.6	79.1	78.4	--	85
PWB near D2	81.3	81.1	74.3	74.0	--	105
PWB near D5	85.7	85.2	85.3	85.2	--	105
PWB near D6	71.7	70.3	71.6	70.9	--	105
PWB near U1	81.3	81.1	74.3	74.0	--	105
L1 coil	68.1	66.6	68.6	67.8	--	105
Enclosure inside near T1	74.1	73.4	74.1	73.6	--	80
Enclosure outside near T1	63.3	62.9	63.1	62.2	--	95
Ambient/ Tma	50	50	50	50	--	--
Test duration (Times)	1:06	3:03	1:26	1:29	--	--
Test on model: GT-81088-0612-4.0-W2.	I/P:	I/P:	I/P:	I/P:	--	--

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Clause	Requirement + Test			Result - Remark		Verdict
		90V/60 Hz Maximum Normal load, Vertical	90V/60 Hz Maximum Normal load, Horizontal	264V/60 Hz Maximum Normal load, Vertical	264V/60 Hz Maximum Normal load, Horizontal	
--		Measured under ambient/ Computed per Tma	Measured under ambient/ Computed per Tma	Measured under ambient/ Computed per Tma	Measured under ambient/ Computed per Tma	--
Blade holder		60.5	60.2	58.0	57.8	80
C1 body (bulk cap) (2.2 uF)		70.2	70.3	64.0	64.3	85
LF1 coil (part no. 30C-040120-XXH)		75.3	75.6	68.1	69.2	105
T1 coil		82.5	83.4	82.2	83.6	110
T1 core		78.4	79.1	77.9	78.6	110
CY1 body (bridge cap)		76.0	76.7	76.1	77.6	85
PWB near D2		78.3	79.9	70.8	72.5	105
PWB near D5		82.8	83.9	80.7	82.5	105
PWB near D6		70.8	71.4	70.1	70.8	105
PWB near U1		78.3	79.9	70.8	72.5	105
L1 coil		65.9	67.1	66.0	67.8	105
Enclosure inside near T1		70.8	71.4	70.1	70.8	80
Enclosure outside near T1		61.8	62.1	61.3	61.9	95
Ambient/ Tma		50	50	50	50	--
Test duration (Times)		1:45	1:08	1:01	1:13	--
Test on model: GT-81088-0612-4.0-W2.		I/P: 90V/60 Hz Maximum Normal load, Vertical	I/P: 90V/60 Hz Maximum Normal load, Horizontal	I/P: 264V/60 Hz Maximum Normal load, Vertical	I/P: 264V/60 Hz Maximum Normal load, Horizontal	--
--		Measured under ambient/ Computed per Tma	Measured under ambient/ Computed per Tma	Measured under ambient/ Computed per Tma	Measured under ambient/ Computed per Tma	--

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Clause	Requirement + Test			Result - Remark		Verdict
MOV1	64.9	63.5	--	--	--	85
Ambient/ Tma	50.0	50.0	--	--	--	--
Test duration (Times)	0:47	1:10	--	--	--	--
Test on model: GT-81088-0612-4.0-W2.	I/P: 90V/60 Hz Maxim um Normal load, Vertical	I/P: 90V/60 Hz Maxim um Normal load, Horizo ntal	I/P: 264V/6 0Hz Maxim um Normal load, Vertical	I/P: 264V/6 0Hz Maxim um Normal load, Horizo ntal	--	--
--	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	--	--
C1 body (bulk cap) (10 uF)	60.2/7 0.2	59.7/6 9.7	53.7/6 3.7	52.6/6 2.6	--	85
Ambient/ Tma	40/50	40/50	40/50	40/50	--	--
Test duration (Times)	1:45	1:41	1:08	0:28	--	--
Test on GT-81088-0612-4.0-W2.	Input: 90V/60 Hz, Maxim um Normal Load (8V/0.7 5A) (Horizo ntal)	Input: 90V/60 Hz, Maxim um Normal Load (8V/0.7 5A) (Vertic al)	Input: 264V/6 0Hz, Maxim um Normal Load (8V/0.7 5A) (Horizo ntal)	Input: 264V/6 0Hz, Maxim um Normal Load (8V/0.7 5A) (Vertic al)	--	--
--	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	Measu red under ambien t/ Compu ted per Tma	--	--
PCB near NTC1	74.8	74.7	70.7	70.1	--	105
T1 coil (Class B)	77.2	77.6	76.8	75.7	--	110
T1 core (Class B)	75.9	76.4	76.4	75.9	--	110
CY1 body near T1 (Bridging cap)	74.5	75.3	75.3	75.5	--	85

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Clause	Requirement + Test	Result - Remark	Verdict

LF2 coil (secondary)		65.1	66.5	65.3	66.1	--	105
Enclosure inside near T1		69.5	70.5	69.9	69.9	--	80
Enclosure outside near T1		59.8	61.4	59.8	60.8	--	95
PCB near D5		76.5	77.3	74.2	73.9	--	105
PCB near U1		74.2	74.5	73.4	72.5	--	105
Ambient		50.0	50.0	50.0	50.0	--	--
Test Duration: (hr: min)		2:01	1:27	0:30	1:29	--	--
Test on Model GT-81088-067.5-2.3-W2.		Input: 90V/60 Hz, Maximum Normal Load (5.2V/1 A) (Horizontal)	Input: 90V/60 Hz, Maximum Normal Load (5.2V/1 A) (Vertical)	Input: 264V/60 Hz, Maximum Normal Load (5.2V/1 A) (Horizontal)	Input: 264V/60 Hz, Maximum Normal Load (5.2V/1 A) (Vertical)	--	--
--		Measured under ambient / Computed per T _{ma}	Measured under ambient / Computed per T _{ma}	Measured under ambient / Computed per T _{ma}	Measured under ambient / Computed per T _{ma}	--	--
PCB near NTC1		73.8	73.9	68.9	69.3	--	105
T1 coil (Class B)		77.3	76.9	77.3	77.4	--	110
T1 core (Class B)		76.0	75.9	76.0	76.4	--	110
CY1 body near T1 (Bridging cap)		74.7	74.7	74.3	75.3	--	85
LF2 coil (secondary)		65.8	65.7	64.9	65.9	--	105
Enclosure inside near T1		70.2	70.0	69.2	69.9	--	80
Enclosure outside near T1		61.4	61.0	59.2	60.7	--	95
PCB near D5		76.8	76.8	73.0	73.4	--	105
PCB near U1		74.2	74.2	72.1	72.4	--	105
Ambient		50.0	50.0	50.0	50.0	--	--
Test Duration: (hr: min)		1:00	1:18	2:00	1:01	--	--
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:

Note: The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 and at voltages as described in sub-clause 1.4.5 with a specified ambient temperature of 50 degree C.

Winding components:

- T1 Class B -> T_{max} = 120 degree C - 10 degree C = 110 degree C

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Clause	Requirement + Test	Result - Remark	Verdict

Components:

- max. absolute temp. of 105 degree C (Line Choke, LF1) -> Tmax =105 degree C.
 - max. absolute temp. of 105 degree C (PWB) -> Tmax = 105 degree C.
 - max. absolute temp. of 85 degree C (Capacitor, MOV) -> Tmax = 85 degree C.
 - max. absolute temp. of 80 degree C (Plastic Enclosure) -> Tmax = 80 degree C.
 - when no class of insulation is given, min. insulation 105 degree C assumed.
- User Accessible Part -> Tmax = 95 degree C.

4.5.5	TABLE: Ball pressure test of thermoplastic parts			Pass
	allowed impression diameter (mm)	less than or equal to 2.0		—
part		test temperature (°C)	impression diameter (mm)	
Blade holder, Sabic, Type SE1X, 2.6mm thickness		125°C	1.71mm	
LF1 bobbin, Chung Chun, Type T375J, 0.45mm thickness		125°C	1.05mm	
supplementary information:				
N/A				

4.7	TABLE: resistance to fire					Pass
	part	manufacturer of material	type of material	thickness (mm)	flammability class	Evidence
	--	--	--	--	--	
supplementary information:						
All internal materials are rated minimum V-2 or are mounted on a PWB rated minimum V-1. Internal wiring marked VW-1. See Table 1.5.1 for details.						

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests			Pass
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Primary to Secondary		DC	4242	NO
Primary to Enclosure cover with foil		DC	4242	NO
Enclosure (Top surface to Bottom surface), note (a)		DC	4242	NO
T1: One layer of insulation tape, Top surface to Bottom surface, note (a)		AC	3000	NO
T1: Primary winding to SELV winding, note (b)		AC	3000	NO
T1: SELV winding to Core		AC	3000	NO
Reissue 1		--	--	--
Test on Model GT-81088-067.5-2.3-W2, GT-81088-0612-W2.		--	--	--
Primary to Secondary		DC	4242	No

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Primary to Enclosure (covered with foil)	DC	4242	No
PRI winding to SEC winding (Transformer of secondary winding with certified triple wire, Furukawa Electric Co Ltd, type TEX-E)	AC	3000	No
SEC winding to Core (Transformer of secondary winding with certified triple wire, Furukawa Electric Co Ltd, type TEX-E)	AC	3000	No
PRI winding to SEC winding (Transformer of secondary winding with certified triple wire, Totoku Electric Co Ltd, type TIW-E)	AC	3000	No
SEC winding to Core (Transformer of secondary winding with certified triple wire, Totoku Electric Co Ltd, type TIW-E)	AC	3000	No
PRI winding to SEC winding (Transformer of secondary winding with certified triple wire, Young Chang Silicone Co Ltd, type STW-B)	AC	3000	No
SEC winding to Core (Transformer of secondary winding with certified triple wire, Young Chang Silicone Co Ltd, type STW-B)	AC	3000	No
Insulation tape: One layers of insulation, Top surface to Bottom surface (3M Company Electrical Markets Div (EMD), type 1350F-1)	AC	3000	No
Insulation tape: One layers of insulation, Top surface to Bottom surface (3M Company Electrical Markets Div (EMD), type 1350F-2)	AC	3000	No
Insulation tape: One layers of insulation, Top surface to Bottom surface (Symbio Inc, type MY130)	AC	3000	No
Insulation tape: One layers of insulation, Top surface to Bottom surface (Symbio Inc, type 35660)	AC	3000	No
Insulation tape: One layers of insulation, Top surface to Bottom surface (Symbio Inc, type 35661)	AC	3000	No
Functional:			
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
--	--	--	--
Basic/supplementary:			
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
--	--	--	--

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Clause	Requirement + Test	Result - Remark	Verdict

Reinforced:			
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
--	--	--	--
supplementary information:			
(a) See critical component table for insulation tape and enclosure material sources in detail.			
(b) T1 core is considered as primary. Tests performed with 2 transformers, which are different secondary winding.			

5.3	TABLE: fault condition tests					Pass
	ambient temperature (°C)				See below	—
	Power source for EUT: Manufacturer, model/type, output rating				See below	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
--	--	--	--	--	--	Ambient: 23.1 degree C, Test on model GT-81088-0612-4.0-W2. Fuse (F1) Rating 250 V / T2 A, Manufacture Walter Electronic Co Ltd, Type ICP (Listed).
T1 Pin (A-B)	short	240	0.5 hr	F1	2	Unit shut down and no indication of output voltage and current. NC, NT, NB. (Input current: 0.07 to 0.003 A)
T1 Pin (3-4)	short	240	0.5 hr	F1	2	Unit shut down and no indication of output voltage and current. NC, NT, NB. (Input current: 0.07 to 0.003 A)
D6	short	240	0.5 hr	F1	2	Unit shut down and no indication of output voltage and current. NC, NT, NB. (Input current: 0.07 to 0.003 A)
C1 (rated 10 uF)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A)
D1	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A)
U1 (2-8)	short	240	0.5 hr	F1	2	Unit shut down and no

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						indication of output voltage and current. NC, NT, NB. (Input current: 0.07 to 0.003 A)
U1 (6-8)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A)
T1 pin 4	short	240	0.5 hr	F1	2	Unit shut down and no indication of output voltage and current. NC, NT, NB. (Input current: 0.07 to 0.003 A)
--	--	--	--	--	--	Fuse (F1) Rating 250 V / T2 A, Manufacture Conquer Electronics Co Ltd, Type PTU.
C1 (rated 10 uF)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A)
D1	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A)
U1 (6-8)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A)
--	--	--	--	--	--	Fuse (F1) Rating 4.7 ohm/1 W, Manufacture Tzai Yuan, Type KNF.
C1 (rated 10 uF)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
D1	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
U1 (6-8)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
--	--	--	--	--	--	Fuse (F1) Rating 4.7 ohm/1 W, Manufacture VIS Electronics Ltd, Type FRT.
C1 (rated 10 uF)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
D1	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
U1 (6-8)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat

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						ten times and got the same results)
--	--	--	--	--	--	Fuse (F1) Rating 4.7 ohm/1 W, Manufacture Jiangsu Xinyang Electronics Ltd., Type RF10-1W.
C1 (rated 10 uF)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
D1	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
U1 (6-8)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
--	--	--	--	--	--	Fuse (F1) Rating 4.7 ohm/1 W, Manufacture Shimeng Electronic (ShenZhen) Co., Ltd, Type FKN.
C1 (rated 10 uF)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
D1	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
U1 (6-8)	short	240	1 sec	F1	2	CD (F1), NC, NT, NB. (Input current: 0A) (Repeat ten times and got the same results)
--	--	--	--	--	--	Ambient: 25.1 degree C, Test on model GT-81088-067.5-2.3-W2.
T1 Pin(A-B) after D7 for 5.2V	overload	240	6 hrs	F1	2	Temperature was stable at load 1.28 A, T1 = 58.7 degree C, Unit shut down at load 1.3 A, NC, NT, NB. (Input current: 0.06 A)
5.2 V/1 A	short	240	0.5 hr	F1	2	Unit shut down and no indication of output voltage and current. NC, NT, NB. (Input current: 0.003 A)
5.2 V/1 A	overload	240	2 hrs	F1	2	Temperature was stable at load 1.2 A, T1 = 58.8 degree C, Unit shut down at

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						load 1.25 A, NC, NT, NB. (Input current: 0.05 A)
--	--	--	--	--	--	Test on model GT-81088-0612-4.0-W2.
T1 Pin(A-B) after D7 for 8V	overload	240	3 hrs	F1	2	Temperature was stable at load 1 A, T1 = 68 degree C, Unit shut down at load 1.02 A, NC, NT, NB. (Input current: 0.09 A)
8 V/0.75 A	short	240	0.5 hr	F1	2	Unit shut down and no indication of output voltage and current. NC, NT, NB. (Input current: 0.003 A)
8 V/0.75 A	overload	240	6 hrs	F1	2	Temperature was stable at load 0.9 A, T1 = 66.6 degree C, Unit shut down at load 1 A, NC, NT, NB. (Input current: 0.08 A)
Reissue 1	--	--	--	--	--	Test on Model GT-81088-067.5-2.3-W2.ambient = 22.5 degree C
5V/1A	short	240	0.5 hour	F1	0.003	SD, NC, NT, NB
5V/1A	overload	240	5.6 hours	F1	0.078	Temperature was stable at load 1.3 A, maximum temperature was T1 = 69.6 degree C, unit shut down at load 1.31 A, NC, NT, NB.
--	--	--	--	--	--	Test on Model GT-81088-0612-4.0-W2. ambient = 22.5 degree C
8V/0.75A	short	240	0.5 hour	F1	0.003	SD, NC, NT, NB
8V/0.75A	overload	240	2.9 hours	F1	0.081	Temperature was stable at load 0.8 A, maximum temperature was T1 = 69.5 degree C, unit shut down at load 0.82 A, NC, NT, NB.
supplementary information:						
Results Key: IP = Internal protection operated (component indicated) CT = Constant temperatures were obtained CD = Components damaged (damaged components indicated) NB = No indication of dielectric breakdown NC = Cheesecloth remained intact NT = Tissue paper remained intact. Note. The excess temperatures on the T1 windings did not exceed 175 degree C for a Class B system without protection.						