

## COVER PAGE FOR TEST REPORT

Product Category:	Power Supplies for Information Technology Equipment Including Electrical Business Equipment																																				
Product Category CCN:	QQGQ, QQGQ7																																				
Test Procedure:	Listing																																				
Product:	Switch-mode Power Supply																																				
Model/Type Reference:	GT-9100P Series																																				
	<p>Note:</p> <p>The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details.</p>																																				
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Applicant Name and Address:	<p>GLOBTEK, INC. 186 VETERANS DRIVE NORTHVALE, NJ 07647 USA</p>																																				
<p>This Report includes the following parts, in addition to this cover page:</p> <ol style="list-style-type: none"><li>1. Specific Technical Criteria</li></ol>																																					

Issue Date: 2006-05-22  
Correction 2 2009-08-05

Page 2 of 2

Report Reference #

E170507-A11-UL-1

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.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Test Report By:


Reviewed By:



Vichie Chen  
Engineer  
UL-CCIC Company Limited

Dan Xie  
Section Manager  
UL-CCIC Company Limited

## SPECIFIC TECHNICAL CRITERIA

<b>UL 60950-1, First Edition</b> <b>Information technology equipment - Safety-</b> <b>Part 1: General Requirements</b>																																					
Report Reference No .....	E170507-A11-UL-1																																				
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**Particulars: test item vs. test requirements**

Equipment mobility .....: stationary  
Operating condition .....: continuous  
Mains supply tolerance (%) .....: +10%, -10%  
Tested for IT power systems .....: No  
IT testing, phase-phase voltage (V) .....: N/A  
Class of equipment .....: Class I (earthed)  
Mass of equipment (kg) .....: 0.4  
Protection against ingress of water .....: IP X0

**Possible test case verdicts:**

- test case does not apply to the test object .....: N / A
- test object does meet the requirement .....: Pass
- test object does not meet the requirement .....: Fail (acceptable only if a corresponding, less stringent national requirement is "Pass")

**General remarks:**

- "(see Enclosure #)" refers to additional information appended to the Test Report
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<b>GENERAL PRODUCT INFORMATION:</b>																																					
CA1.0	<b>Report Summary</b>																																				
CA1.1	N/A																																				
CB1.0	<b>Product Description</b>																																				
CB1.1	The products covered by this report are desktop switch-mode power supplies, intended to provide power to and intended for use with Information Technology Equipment.																																				
CC1.0	<b>Model Differences</b>																																				
CC1.1	<p>Differences within the GT-9100P family is limited to minor component changes to determine specific output voltage and current parameters.</p> <p>The 9100 Series is the family model designation which is represented by the following generic nomenclature:</p> <p>GT-9100PXXXYY-Z.Z-D where:</p> <p>GT- designates GlobTek models with ITE safety approval while:</p> <p>P designates the use of active power factor correction circuitry;            XXX designates the rated output power as seen in the standard model list;            YY designates the rated output voltage as seen in the standard model list;            Z.Z designates the optional voltage deviation, subtracted from standard output voltage in 0.1 volt increments;</p> <p>Standard Models:</p> <table border="1"> <thead> <tr> <th></th> <th>Vdc</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>GT-9100P7005</td> <td>5.0</td> <td>14.00</td> </tr> <tr> <td>GT-9100P10009-X.X</td> <td>9.0</td> <td>11.00</td> </tr> <tr> <td>GT-9100P10012-X.X</td> <td>12.0</td> <td>8.33</td> </tr> <tr> <td>GT-9100P10015-X.X</td> <td>15.0</td> <td>6.67</td> </tr> <tr> <td>GT-9100P10018-X.X</td> <td>18.0</td> <td>5.50</td> </tr> <tr> <td>GT-9100P12019-X.X</td> <td>19.0</td> <td>6.32</td> </tr> <tr> <td>GT-9100P12020-X.X</td> <td>20.0</td> <td>6.00</td> </tr> <tr> <td>GT-9100P12022-X.X</td> <td>22.0</td> <td>5.45</td> </tr> <tr> <td>GT-9100P12024-X.X</td> <td>24.0</td> <td>5.00</td> </tr> <tr> <td>GT-9100P12036-X.X</td> <td>36.0</td> <td>3.33</td> </tr> <tr> <td>GT-9100P12048-X.X</td> <td>48.0</td> <td>2.50</td> </tr> </tbody> </table> <p>Note - This nomenclature only covers models employing output ratings equivalent to or less than those listed in Standard Models table.</p>		Vdc	A	GT-9100P7005	5.0	14.00	GT-9100P10009-X.X	9.0	11.00	GT-9100P10012-X.X	12.0	8.33	GT-9100P10015-X.X	15.0	6.67	GT-9100P10018-X.X	18.0	5.50	GT-9100P12019-X.X	19.0	6.32	GT-9100P12020-X.X	20.0	6.00	GT-9100P12022-X.X	22.0	5.45	GT-9100P12024-X.X	24.0	5.00	GT-9100P12036-X.X	36.0	3.33	GT-9100P12048-X.X	48.0	2.50
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CD1.0	<b>Additional Information</b>																																				
CD1.1	E170507-A11-UL-1,Correction 2:withdraw E170507-A11 under Vol.X5																																				

	<p>These units were evaluated to comply with IEC 60950-1 1st Edition. Where test procedures or acceptable limits were more stringent in one standard, data taken was considered acceptable for both standards' requirements.</p> <p>This report does not include the investigation or the test report for the triple insulated wire employed in the transformer. Since this is a Test Report for the power supply itself, it may be used when submitting this CB Test Report to a National Certification Body (NCB) for obtaining certification at national level.</p> <p>Testing was performed on Models GT-9100P10012, GT-9100P10023, GT-9100P12024 and GT-9100P12048. This testing represents all models in the series.</p> <p>A Manufacturer's Letter of Assurance is not required since there are no special warnings or cautions on the unit or it's label.</p>
CE1.0	<b>Technical Considerations</b>
CE2.0	The Model GT-9100P Series is considered Class I (protectively earthed).
CE2.1	Additional single fault testing with alternate fuses listed in the Critical Component table were not considered necessary due to the examination of the fuse curves.
CE2.2	These products were submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of 60°C.

## COVER PAGE FOR TEST REPORT

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Test Report By:



Roy Shinmachi  
Senior Engineering Associate  
Underwriters Laboratories Inc.


Reviewed By:



David V. Alma  
Staff Engineer  
Underwriters Laboratories Inc.



## SPECIFIC TECHNICAL CRITERIA

<b>UL 60950-1, First Edition</b>		
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Report Reference No .....	E170507-A11-UL-1	
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Equipment mobility .....: stationary  
Operating condition .....: continuous  
Mains supply tolerance (%) .....: +10%, -10%  
Tested for IT power systems .....: No  
IT testing, phase-phase voltage (V) .....: N/A  
Class of equipment .....: Class I (earthed)  
Mass of equipment (kg) .....: 0.4  
Protection against ingress of water .....: IP X0

**Possible test case verdicts:**

- test case does not apply to the test object .....: N / A
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CC1.1	<p>Differences within the GT-9100P family is limited to minor component changes to determine specific output voltage and current parameters.</p> <p>The 9100 Series is the family model designation which is represented by the following generic nomenclature:</p> <p>GT-9100PXXXYY-Z.Z-D where:</p> <p>GT- designates GlobTek models with ITE safety approval while:</p> <p>P designates the use of active power factor correction circuitry;                      XXX designates the rated output power as seen in the standard model list;                      YY designates the rated output voltage as seen in the standard model list;                      Z.Z designates the optional voltage deviation, subtracted from standard output voltage in 0.1 volt increments;</p> <p>Standard Models:</p> <table border="1"> <thead> <tr> <th></th> <th>Vdc</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>GT-9100P7005</td> <td>5.0</td> <td>14.00</td> </tr> <tr> <td>GT-9100P10009-X.X</td> <td>9.0</td> <td>11.00</td> </tr> <tr> <td>GT-9100P10012-X.X</td> <td>12.0</td> <td>8.33</td> </tr> <tr> <td>GT-9100P10015-X.X</td> <td>15.0</td> <td>6.67</td> </tr> <tr> <td>GT-9100P10018-X.X</td> <td>18.0</td> <td>5.50</td> </tr> <tr> <td>GT-9100P12019-X.X</td> <td>19.0</td> <td>6.32</td> </tr> <tr> <td>GT-9100P12020-X.X</td> <td>20.0</td> <td>6.00</td> </tr> <tr> <td>GT-9100P12022-X.X</td> <td>22.0</td> <td>5.45</td> </tr> <tr> <td>GT-9100P12024-X.X</td> <td>24.0</td> <td>5.00</td> </tr> <tr> <td>GT-9100P12036-X.X</td> <td>36.0</td> <td>3.33</td> </tr> <tr> <td>GT-9100P12048-X.X</td> <td>48.0</td> <td>2.50</td> </tr> </tbody> </table> <p>Note - This nomenclature only covers models employing output ratings equivalent to or less than those listed in Standard Models table.</p>		Vdc	A	GT-9100P7005	5.0	14.00	GT-9100P10009-X.X	9.0	11.00	GT-9100P10012-X.X	12.0	8.33	GT-9100P10015-X.X	15.0	6.67	GT-9100P10018-X.X	18.0	5.50	GT-9100P12019-X.X	19.0	6.32	GT-9100P12020-X.X	20.0	6.00	GT-9100P12022-X.X	22.0	5.45	GT-9100P12024-X.X	24.0	5.00	GT-9100P12036-X.X	36.0	3.33	GT-9100P12048-X.X	48.0	2.50
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GT-9100P12048-X.X	48.0	2.50																																			
CD1.0	<b>Additional Information</b>																																				
CD1.1	These units were evaluated to comply with IEC 60950-1 1st Edition. Where test procedures or acceptable limits were more stringent in one standard, data taken was considered acceptable for																																				

	<p>both standards' requirements.</p> <p>This report does not include the investigation or the test report for the triple insulated wire employed in the transformer. Since this is a Test Report for the power supply itself, it may be used when submitting this CB Test Report to a National Certification Body (NCB) for obtaining certification at national level.</p> <p>Testing was performed on Models GT-9100P10012, GT-9100P10023, GT-9100P12024 and GT-9100P12048. This testing represents all models in the series.</p> <p>A Manufacturer's Letter of Assurance is not required since there are no special warnings or cautions on the unit or it's label.</p>
CE1.0	<b>Technical Considerations</b>
CE2.0	The Model GT-9100P Series is considered Class I (protectively earthed).
CE2.1	Additional single fault testing with alternate fuses listed in the Critical Component table were not considered necessary due to the examination of the fuse curves.
CE2.2	These products were submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of 60°C.

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

1	<b>GENERAL</b>		Pass
1.5	Components		Pass
1.5.1	General		Pass
	Comply with IEC 60950 or relevant component standard		Pass
1.5.2	Evaluation and testing of components		Pass
1.5.3	Thermal controls		N/A
1.5.4	Transformers		Pass
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors in primary circuits .....	Line-to-line capacitors are subclass X1 or X2. Primary-to-earth capacitors are subclass Y1 or Y2.	Pass
1.5.7	Double insulation or reinforced insulation bridged by components		Pass
1.5.7.1	General		N/A
1.5.7.2	Bridging capacitors	One Y1 capacitor employed (double/reinforced insulation)	Pass
1.5.7.3	Bridging resistors		N/A
1.5.7.4	Accessible parts		N/A
1.5.8	Components in equipment for IT power systems		N/A

1.6	<b>Power interface</b>		Pass
1.6.1	AC power distribution systems	Unit investigated for use on TN(-S) system.	Pass
1.6.2	Input current	(See appended table 1.6.2.)	Pass
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor		Pass

1.7	<b>Marking and instructions</b>		Pass
1.7.1	Power rating		N/A
	Rated voltage(s) or voltage range(s) (V) .....	100-240 Vac	Pass
	Symbol for nature of supply, for d.c. only .....		N/A

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

	Rated frequency or rated frequency range (Hz).... :	50-60 Hz	Pass
	Rated current (mA or A) .....	2.0 A	Pass
	Manufacturer's name or trademark or identification mark..... :	GlobTek, Inc.	Pass
	Type/model or type reference .....	Models: GT-9100P7005, GT-9100P10009, GT-9100P10012, GT-9100P10015, GT-9100P10018, GT-9100P12019, GT-9100P12020, GT-9100P12022, GT-9100P12024, GT-9100P12036, GT-9100P12048.	Pass
	Symbol for Class II equipment only..... :		N/A
	Other symbols .....		N/A
	Certification marks..... :		N/A
1.7.2	Safety instructions	Accompanying documents not provided. Acceptability to be determined in the end product.	N/A
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment .....		N/A
1.7.5	Power outlets on the equipment..... :		N/A
1.7.6	Fuse identification..... :	Fuse(s) provided with voltage, current, and special fusing characteristic marking as applicable. See Schematics and PWB Enclosure for details.	Pass
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals..... :		N/A
1.7.7.2	Terminal 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

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
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 .....		N/A
1.7.10	IT power distribution systems		N/A
1.7.11	Thermostats and other regulating devices		N/A
1.7.12	Language.....	A Manufacturer's Letter of Assurance is not required since there are no special warnings or cautions on the unit or it's label.  No safety instructions are included nor are safety markings are required on the product.	-
1.7.13	Durability		Pass
1.7.14	Removable parts		N/A
1.7.15	Replaceable batteries		N/A
	Language.....		-
1.7.16	Operator access with a tool .....		N/A
1.7.17	Equipment for restricted access locations.....		N/A

2	<b>PROTECTION FROM HAZARDS</b>		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas		Pass
2.1.1.1	Access to energized parts		N/A
	Test by inspection.....		N/A
	Test with test finger .....		N/A
	Test with test pin.....		N/A
	Test with test probe .....		N/A
2.1.1.2	Battery compartments .....		N/A
2.1.1.3	Access to ELV wiring		N/A

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

	Working voltage (V); minimum distance (mm) through insulation .....		-
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards .....		N/A
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		Pass
	Time-constant (s); measured voltage (V) .....	At one second, the following voltages were measured: Line to Neutral = <0.1 V peak Line to Protective Earth = <0.1 V peak Neutral to Protective Earth = 5 V peak	-
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A

2.2	<b>SELV circuits</b>		Pass
2.2.1	General requirements		Pass
2.2.2	Voltages under normal conditions (V) .....	All accessible voltages do not exceed 48.5 VDC and are classified as SELV.	Pass
2.2.3	Voltages under fault conditions (V) .....	Under fault conditions voltages never exceed 48.5 VDC for more than 0.2 sec.	Pass
2.2.3.1	Separation by double insulation or reinforced insulation (method 1)		Pass
2.2.3.2	Separation by earthed screen (method 2)		N/A
2.2.3.3	Protection by earthing of the SELV circuit (method 3)		N/A
2.2.4	Connection of SELV circuits to other circuits .....		N/A

2.3	<b>TNV circuits</b>		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



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Clause	Requirement + Test	Result - Remark	Verdict

	Insulation employed..... :		-
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	<b>Limited current circuits</b>		N/A
2.4.1	General requirements		N/A
2.4.2	Limit values		N/A
	Frequency (Hz)..... :		-
	Measured current (mA)..... :		-
	Measured voltage (V)..... :		-
	Measured capacitance (mF)..... :		-
2.4.3	Connection of limited current circuits to other circuits		N/A

2.5	<b>Limited power sources</b>		N/A
	Inherently limited output		N/A
	Impedance limited output		N/A
	Overcurrent protective device limited output		N/A
	Regulating network limited output under normal operating and single fault condition		N/A
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition		N/A
	Output voltage (V), output current (A), apparent power (VA):..... :		-
	Current rating of overcurrent protective device (A) :		-

2.6	<b>Provisions for earthing and bonding</b>		Pass
2.6.1	Protective earthing		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors	Bonding conductors were tested and found acceptable.	Pass
2.6.3.1	General		Pass
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG .....		-
2.6.3.3	Size of protective bonding conductors		Pass
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG .....	16 AWG	-
2.6.3.4	Resistance (Ohm) of earthing conductors and their terminations, test current (A) .....	Test conducted from earthing tab of unit to the farthest point away on the chassis. Test conditions: 40 A (12 Vac source), for 2 minutes. Calculated resistance = 0.0208 Ohms.	Pass
2.6.3.5	Colour of insulation.....	Green/yellow wire used for grounding.	Pass
2.6.4	Terminals		Pass
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals	Bonding terminals are acceptable.	Pass
	Rated current (A), type and nominal thread diameter (mm) .....	Connection to the unit is made by means of an IEC 60320 Inlet using a detachable power cord which is not provided with the unit.	-
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

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
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	<b>Overcurrent and earth fault protection in primary circuits</b>		Pass
2.7.1	Basic requirements		Pass
	Instructions when protection relies on building installation		Pass
2.7.2	Faults not covered in 5.3		Pass
2.7.3	Short-circuit backup protection	Fuses are appropriately rated for the application.	Pass
2.7.4	Number and location of protective devices ..... :	There is one protective device in each of the Line and Neutral phases.	Pass
2.7.5	Protection by several devices		Pass
2.7.6	Warning to service personnel ..... :	To be determined in the end-product.	N/A

2.8	<b>Safety interlocks</b>		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
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

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

2.9	<b>Electrical insulation</b>		Pass
2.9.1	Properties of insulating materials		Pass
2.9.2	Humidity conditioning		Pass
	Humidity (%) ..... :	95%	-
	Temperature (°C)..... :	31°C	-
2.9.3	Grade of insulation		Pass

2.10	<b>Clearances, creepage distances and distances through insulation</b>		Pass
2.10.1	General		Pass
2.10.2	Determination of working voltage		Pass
2.10.3	Clearances		Pass
2.10.3.1	General		Pass
2.10.3.2	Clearances in primary circuit		Pass
2.10.3.3	Clearances in secondary circuits		Pass
2.10.3.4	Measurement of transient voltage levels		N/A
2.10.4	Creepage distances	Unit provided 9.0 mm creepage from primary to secondary, and 6.0 mm from primary to earth.	Pass
	CTI tests ..... :	Material group IIIb; 100 <= CTI < 175.	-
2.10.5	Solid insulation		Pass
2.10.5.1	Minimum distance through insulation		Pass
2.10.5.2	Thin sheet material		N/A
	Number of layers (pcs) ..... :		-
	Electric strength test..... :		-
2.10.5.3	Printed boards		N/A
	Distance through insulation		N/A
	Electric strength test for thin sheet insulating material ..... :		-
	Number of layers (pcs) ..... :		N/A
2.10.5.4	Wound components		Pass

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Clause	Requirement + Test	Result - Remark	Verdict

	Number of layers (pcs) .....	The Isolation Transformer contains triple insulation wire. See Annex U for additional details.	Pass
	Two wires in contact inside wound component; angle between 45° and 90° .....		N/A
2.10.6	Coated printed boards		N/A
2.10.6.1	General		N/A
2.10.6.2	Sample preparation and preliminary inspection		N/A
2.10.6.3	Thermal cycling		N/A
2.10.6.4	Thermal ageing (°C) .....		N/A
2.10.6.5	Electric strength test .....		-
2.10.6.6	Abrasion resistance test		N/A
	Electric strength test .....		-
2.10.7	Enclosed and sealed parts .....		N/A
	Temperature T1=T2 = Tma - Tamb +10K (°C).....		N/A
2.10.8	Spacings filled by insulating compound .....		N/A
	Electric strength test .....		-
2.10.9	Component external terminations		N/A
2.10.10	Insulation with varying dimensions		N/A

<b>3</b>	<b>WIRING, CONNECTIONS AND SUPPLY</b>		Pass
3.1	General		Pass
3.1.1	Current rating and overcurrent protection		Pass
3.1.2	Protection against mechanical damage		N/A
3.1.3	Securing of internal wiring	Internal wiring is triple insulated but held in place using silicone.	Pass
3.1.4	Insulation of conductors		N/A
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring		N/A

3.2	<b>Connection to an a.c. mains supply or a d.c. mains supply</b>		Pass
3.2.1	Means of connection		Pass
3.2.1.1	Connection to an a.c. mains supply	Connection to the unit is made by means of an IEC 60320 Inlet using a detachable power cord which is not provided with the unit.	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 (mm) of cable and conduits .....	:	-
3.2.4	Appliance inlets		Pass
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Type.....	:	-
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), 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
	D (mm); test mass (g).....	:	-
	Radius of curvature of cord (mm) .....	:	-
3.2.9	Supply wiring space		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3.3	<b>Wiring terminals for connection of external conductors</b>		Pass
3.3.1	Wiring terminals		Pass
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		Pass
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ) .....		-
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type and nominal thread diameter (mm) .....		-
3.3.6	Wiring terminals design		Pass
3.3.7	Grouping of wiring terminals		Pass
3.3.8	Stranded wire		N/A

3.4	<b>Disconnection from the mains supply</b>		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	Disconnect from is made via IEC 60320 Appliance Inlet and a detachable power cord.	Pass
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Single-phase equipment and d.c. equipment		N/A
3.4.7	Three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A

3.5	<b>Interconnection of equipment</b>		N/A
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Clause	Requirement + Test	Result - Remark	Verdict

3.5.1	General requirements		N/A
3.5.2	Types of interconnection circuits .....		N/A
3.5.3	ELV circuits as interconnection circuits		N/A

4	<b>PHYSICAL REQUIREMENTS</b>		Pass
4.1	Stability		N/A
	Angle of 10°		N/A
	Test: force (N)..... :		N/A

4.2	<b>Mechanical strength</b>		Pass
4.2.1	General		N/A
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		N/A
4.2.5	Impact test		Pass
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test		Pass
4.2.7	Stress relief test		N/A
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

4.3	<b>Design and construction</b>		Pass
4.3.1	Edges and corners	Unit contains a plastic desktop type enclosure.	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		N/A



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Clause	Requirement + Test	Result - Remark	Verdict

4.3.5	Connection of plugs and sockets		N/A
4.3.6	Direct plug-in equipment		N/A
	Dimensions (mm) of mains plug for direct plug-in . :		N/A
	Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N)..... :		N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		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
4.3.13	Radiation; type of 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)		N/A
	Laser class ..... :		-
4.3.13.6	Other types ..... :		N/A

4.4	<b>Protection against hazardous moving parts</b>		N/A
4.4.1	General		N/A

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

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	<b>Thermal requirements</b>		Pass
4.5.1	Maximum temperatures		Pass
	Normal load condition per Annex L ..... :		N/A
4.5.2	Resistance to abnormal heat		N/A

4.6	<b>Openings in enclosures</b>		N/A
4.6.1	Top and side openings		N/A
	Dimensions (mm) ..... :		-
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottom ..... :		-
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (°C)/time (weeks) ..... :		-

4.7	<b>Resistance to fire</b>		Pass
4.7.1	Reducing the risk of ignition and spread of flame		Pass
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	Pass
	Method 2, application of all of simulated fault condition tests	(see appended table 5.3)	Pass
4.7.2	Conditions for a fire enclosure		N/A
4.7.2.1	Parts requiring a fire enclosure		N/A
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Pass
4.7.3.1	General		Pass

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4.7.3.2	Materials for fire enclosures	V-0 enclosure	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		N/A
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

5	<b>ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</b>		Pass
5.1	Touch current and protective conductor current		Pass
5.1.1	General		Pass
5.1.2	Equipment under test (EUT)		Pass
5.1.3	Test circuit		Pass
5.1.4	Application of measuring instrument		Pass
5.1.5	Test procedure		Pass
5.1.6	Test measurements		Pass
	Test voltage (V) .....	240 Vac (60 Hz)	-
	Measured touch current (mA).....	0.195 mA	-
	Max. allowed touch current (mA).....	3.5 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
5.1.8	Touch currents to and from 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 and a cable distribution system		N/A
	Test voltage (V) .....		-
	Measured touch current (mA).....		-
	Max. allowed touch current (mA).....		-
5.1.8.2	Summation of touch currents from telecommunication networks .....		N/A

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5.2	<b>Electric strength</b>		Pass
5.2.1	General		Pass
5.2.2	Test procedure		Pass

5.3	<b>Abnormal operating and fault conditions</b>		Pass
5.3.1	Protection against overload and abnormal operation		Pass
5.3.2	Motors		N/A
5.3.3	Transformers		Pass
5.3.4	Functional insulation..... :	Functional insulation complies with the requirements (a) meets creepages and clearances, (b) dielectric strength tests and (c) component abnormal testing as well.	Pass
5.3.5	Electromechanical components		N/A
5.3.6	Simulation of faults		Pass
5.3.7	Unattended equipment		N/A
5.3.8	Compliance criteria for abnormal operating and fault conditions		Pass

6	<b>CONNECTION TO TELECOMMUNICATION NETWORKS</b>		N/A
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements		N/A
	Test voltage (V) ..... :		-
	Current in the test circuit (mA)..... :		-
6.1.2.2	Exclusions ..... :		N/A

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6.2	<b>Protection of equipment users from overvoltages on telecommunication networks</b>		N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A

6.3	<b>Protection of the telecommunication wiring system from overheating</b>		N/A
	Max. output current (A)..... :		-
	Current limiting method ..... :		-

7	<b>CONNECTION TO CABLE DISTRIBUTION SYSTEMS</b>		N/A
7.1	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.2	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.3	Insulation between primary circuits and cable distribution systems		N/A
7.3.1	General		N/A
7.3.2	Voltage surge test		N/A
7.3.3	Impulse test		N/A

A	<b>Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE</b>		N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A
A.1.1	Samples..... :		-
	Wall thickness (mm) ..... :		-
A.1.2	Conditioning of samples; temperature (°C) ..... :		N/A
A.1.3	Mounting of samples ..... :		N/A
A.1.4	Test flame		N/A
A.1.5	Test procedure		N/A

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A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s) .....		-
	Sample 2 burning time (s) .....		-
	Sample 3 burning time (s) .....		-

A.2	<b>Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)</b>		N/A
A.2.1	Samples, material.....		-
	Wall thickness (mm) .....		-
A.2.2	Conditioning of samples		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame		N/A
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s) .....		-
	Sample 2 burning time (s) .....		-
	Sample 3 burning time (s) .....		-
A.2.7	Alternative test acc. to IEC 60695-2-2, cl. 4, 8		N/A
	Sample 1 burning time (s) .....		-
	Sample 2 burning time (s) .....		-
	Sample 3 burning time (s) .....		-

A.3	<b>Hot flaming oil test (see 4.6.2)</b>		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

B	<b>Annex B, MOTOR TESTS UNDER ABNORMAL CONDITIONS(see 4.7.2.2 and 5.3.2)</b>		N/A
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B.1	General requirements		N/A
	Position .....		-
	Manufacturer .....		-
	Type .....		-
	Rated values .....		-
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days) .....		-
	Electric strength test: test voltage (V) .....		-
B.6	Running overload test for d.c. motors in secondary circuits		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
B.7.1	Test procedure		N/A
B.7.2	Alternative test procedure; test time (h) .....		N/A
B.7.3	Electric strength test		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V) .....		-

C	<b>Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)</b>		Pass
	Position .....	Refer to Table 1.5.1	-
	Manufacturer .....	Refer to Table 1.5.1	-
	Type .....	Isolation	-
	Rated values .....	100 W and 120 W units	-
	Method of protection .....	None	-
C.1	Overload test	See 5.3.6.	Pass
C.2	Insulation	(see transformer construction in appended table 2.10.3 and	Pass

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		Enclosure for details)	
	Protection from displacement of windings..... :	Triple insulated wire used.	Pass

D	<b>Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS</b>		Pass
D.1	Measuring instrument	Leakage Meter	Pass
D.2	Alternative measuring instrument		N/A

E	<b>Annex E, TEMPERATURE RISE OF A WINDING</b>		Pass
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F	<b>Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)</b>		Pass
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G	<b>Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES</b>		N/A
G.1	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply		N/A
G.2.2	DC mains supply		N/A
G.3	Determination of telecommunication network transient voltage (V) : .....		N/A
G.4	Determination of required withstand voltage (V) ... :		N/A
G.5	Measurement of transient levels (V)..... :		N/A
G.6	Determination of minimum clearances .....		N/A

H	<b>ANNEX H, IONIZING RADIATION (see 4.3.13)</b>		N/A
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J	<b>Annex J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)</b>		N/A
	Metal used .....		-

K	<b>ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)</b>		N/A
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K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V)..... :		N/A
K.3	Thermostat endurance test; operating voltage (V) :		N/A
K.4	Temperature limiter endurance; operating voltage (V) ..... :		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A

L	<b>Annex L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)</b>		N/A
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		N/A

M	<b>Annex M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)</b>		N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz) ..... :		-
M.3.1.2	Voltage (V) ..... :		-
M.3.1.3	Cadence; time (s), voltage (V) ..... :		-
M.3.1.4	Single fault current (mA) ..... :		-
M.3.2	Tripping device and monitoring voltage..... :		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A

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M.3.2.3	Monitoring voltage (V) .....		N/A
<b>N</b>	<b>Annex N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)</b>		N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
<b>P</b>	<b>Annex P, NORMATIVE REFERENCES</b>		N/A
<b>Q</b>	<b>Annex Q, BIBLIOGRAPHY</b>		N/A
<b>R</b>	<b>Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES</b>		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
<b>S</b>	<b>Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)</b>		N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A
<b>T</b>	<b>Annex T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)</b>		N/A
	..... :		-
<b>U</b>	<b>Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)</b>		Pass
	..... :	Furukawa TEX-E wire provided. This report does not include the investigation or the test report for the triple	-

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		insulated wire employed in the transformer. Since this is a Test Report for the power supply itself, it may be used when submitting this CB Test Report to a National Certification Body (NCB) for obtaining certification at national level.	

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1.5.1	TABLE: list of critical components					Pass
Object/part No.	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
Enclosure	GE	GE 940	V-0, 3.5 mm min., 105 degrees C max.	QMFZ2	UL R/C	
AC Inlet	Yecx	TU-301-SP	250V, 15A or better; C14 type	RTRT2	UL R/C	
AC Inlet	various	various	250V, 15A or better; C14 type	RTRT2	UL R/C	
Output Cable	Lu Chiang Electric	XT	SPT-1 or SPT-2, 18 AWG, VW- 1, 105°C	ZJCZ	LISTED	
Diode Bridge, D1	Sep	SEP 51A	8A, 600V or better	--	--	
Alternate Diode Bridge, D1	Panjit	various	8A, 600V or better	--	--	
Alternate Diode Bridge, D1	various	various	8A, 600V or better	--	--	
Printed Wiring Board	Jian he	AM 168	V-1 or better, 130°C	ZPMV2	UL R/C	
Alternate Printed Wiring Board	Cheer	AM 168	V-1 or better, 130°C	ZPMV2	UL R/C	
Fuses, F1, F2	Walter	2010	3.15A, 250V	JYDX2	UL R/C	
Alternate Fuses F1, F2	Conquer	MST	3.15A, 250V	JYDX2	UL R/C	
Varistor, VAR1	Thinking	TVR07471K	470 V	XUHT2	UL R/C	
Alternate Varistor, VAR1	Joyin	JVR- 07N471K65YRW- L	470 V	XUHT2	UL R/C	
Alternate Varistor, VAR1	various	various	470 V	XUHT2	UL R/C	
Thermistor, RT	Thinking	SCK-2855A	5.5 ohm, 5 A min.	XGPU2	UL R/C	
Alternate Thermistor, RT	various	various	5.5 ohm, 5 A min.	XGPU2	UL R/C	
Photo coupler, IC6, IC7	Sharp	PC817A	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C	
Alternate Photo coupler, IC6, IC7	Vishay	TCET1107G	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C	

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Alternate Photo coupler, IC6, IC7	Liteon	LTV817	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C	
Alternate Photo coupler, IC6, IC7	various	various	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C	
MOSFET, Q1	Fuji	2SK3337-01	17 A/600 V or better	--	--	
Alternate MOSFET, Q1	various	various	17 A/600 V or better	--	--	
Line Choke, LF1	Yao Sheng	AM688B-LF1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW or M7AGHB.	--	--	
Alternate Line Choke, LF1	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	various	Class B (130°C) designated YST-JC1, M7A90, M7ADEW or M7AGHB.	--	--	
Line Choke, LF2	Yao Sheng	AM688B-LF2	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	--	--	
Alternate Line Choke, LF2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	various	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	--	--	
Bridge Diode, BD1	Panjit	KG600P	8 A, 600 V or better	--	--	
Alternate Bridge Diode, BD1	various	various	8 A, 600 V or better	--	--	
Capacitor, C9	Rubicon	MXG Series	420 V, 47 uF, 105°C min.	--	--	
Alternate Capacitor, C9	various	various	420 V, 47 uF, 105°C min.	--	--	
Transformer, T1	Yao Sheng	AM168B-T1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	OBJY2	--	
Alternate Transformer, T1	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation	AM168B-T1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	OBJY2	--	

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	Electronic (Suzhou) Co. Ltd.					
Transformer, T2	Yao Sheng	AM168B-T2-12V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Wujiang Fenhu	AM168B-T2-12V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Transformer, T2	Yao, Sheng	AM168B-T2-19V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	AM168B-T2-19V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Transformer, T2	Yao Sheng	AM168B-T2-23V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	AM168B-T2-23V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Transformer, T2	Yao Sheng	AM168B-T2-24V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	AM168B-T2-24V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Transformer, T2	Yao Sheng	AM168B-T2-36V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation	AM168B-T2-36V-A	Class F (155°C) designated RXT-2.	OBJY2	--	

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	Electronic (Suzhou) Co. Ltd.					
Transformer, T2	Yao Sheng	AM168B-T2-48V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	AM168B-T2-48V-A	Class F (155°C) designated RXT-2.	OBJY2	--	
Capacitor, CX1	Ultra Tech	HQX	0.1 uF, 275 V max.	FOWX2	UL R/C	
Alternate Capacitor, CX1	Chen Tong	CTX	0.1 uF, 300 V max.	FOWX2	UL R/C	
Alternate Capacitor, CX1	Camel	MPX	0.1 uF, 275 V max.	FOWX2	UL R/C	
Alternate Capacitor, CX1	various	various	0.1 uF, 275 V max.	FOWX2	UL R/C	
Capacitor, CX2	Ultra Tech	HQX	1 uF, 275 V max.	FOWX2	UL R/C	
Alternate Capacitor, CX2	Chen Tong	CTX	1 uF, 300 V max.	FOWX2	UL R/C	
Alternate Capacitor, CX2	Camel	MPX	1 uF, 275 V max.	FOWX2	UL R/C	
Alternate Capacitor, CX2	various	various	1 uF, 275 V max.	FOWX2	UL R/C	
Capacitor, CY1	Success	Y1 (SE Type)	102 pF, 400 V max.	FOKY2	UL R/C	
Alternate Capacitor, CY1	Pan Overseas	Y1 (AH Type)	102 pF, 400 V max.	FOKY2	UL R/C	
Alternate Capacitor, CY1	TDK	Y1 (CD Type)	102 pF, 400 V max.	FOKY2	UL R/C	
Alternate Capacitor, CY1	various	various	102 pF, 400 V max.	FOKY2	UL R/C	
Capacitor, CY2, CY3	Ultra Tech	Y1 (SE Type)	471 pF, 400 V max.	FOKY2	UL R/C	
Alternate Capacitor, CY2, CY3	Chen Tong	Y1 (AH Type)	471 pF, 400 V max.	FOKY2	UL R/C	
Alternate Capacitor, CY2, CY3	TDK	Y1 (CD Type)	471 pF, 400 V max.	FOKY2	UL R/C	
Alternate Capacitor, CY2, CY3	various	Various	471 pF, 400 V max.	FOKY2	UL R/C	
Mylar Insulation	Lcecl Enterprise Co. Ltd.	AM168B-M1-B	Dielectric Withstand 1500 V min.	QMFZ2	UL R/C	
Alternate Mylar	Lcecl Enterprise Co.	AM168B-M2	Dielectric Withstand 1500 V	QMFZ2	UL R/C	

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Insulation	Ltd.		min.			
PC Film	Lcecl Enterprise Co. Ltd.	FR-700	O.432 mm thick min.	QMFZ2	UL R/C	
PC Film	various	various	O.432 mm thick min.	QMFZ2	UL R/C	



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1.6.2	TABLE: electrical data (in normal conditions)						Pass
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (mA)	condition/status	
-	-	-	-	-	-	GTM9100P10012	
F1	2.0	90	118.0	1300	2000	Pass	
F1	2.0	100	117.4	1165	2000	Pass	
F1	2.0	120	116.4	966	2000	Pass	
F1	2.0	132	115.4	871	2000	Pass	
F1	2.0	200	115.3	590	2000	Pass	
F1	2.0	220	115.2	543	2000	Pass	
F1	2.0	240	115.6	508	2000	Pass	
F1	2.0	264	115.4	477	2000	Pass	
-	-	-	-	-	-	GTM9100P10023	
F1	2.0	90	115.7	1270	2000	Pass	
F1	2.0	100	115.2	1143	2000	Pass	
F1	2.0	120	114.5	947	2000	Pass	
F1	2.0	132	114.0	862	2000	Pass	
F1	2.0	200	114.2	588	2000	Pass	
F1	2.0	220	114.3	546	2000	Pass	
F1	2.0	240	114.1	512	2000	Pass	
F1	2.0	264	113.9	485	2000	Pass	
-	-	-	-	-	-	GTM9100P12024	
F1	2.0	90	139.2	1533	2000	Pass	
F1	2.0	100	138.2	1370	2000	Pass	
F1	2.0	120	137.0	1132	2000	Pass	
F1	2.0	132	135.8	1020	2000	Pass	
F1	2.0	200	134.8	678	2000	Pass	
F1	2.0	220	134.5	622	2000	Pass	
F1	2.0	240	134.4	575	2000	Pass	
F1	2.0	264	135.2	565	2000	Pass	
-	-	-	-	-	-	GTM9100P12048	
F1	2.0	90	137.7	1512	2000	Pass	
F1	2.0	100	136.6	1347	2000	Pass	
F1	2.0	120	135.4	1120	2000	Pass	
F1	2.0	132	134.7	1015	2000	Pass	
F1	2.0	200	134.5	677	2000	Pass	
F1	2.0	220	134.3	619	2000	Pass	
F1	2.0	240	134.5	575	2000	Pass	
F1	2.0	264	134.2	536	2000	Pass	
supplementary information:							
-							

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Clause	Requirement + Test	Result - Remark	Verdict

2.10.3 and 2.10.4	<b>TABLE: clearance and creepage distance measurements</b>						Pass
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	
-	-	-	-	-	-	GTM9100-P10012	
T1-3 to T1-8	484	278.5	4.0	9.0	8.0	9.0	
T1-4 to T1-A	476	277.8	4.0	9.0	8.0	9.0	
T1-5 to T1-11	276	127.1	4.0	9.0	8.0	9.0	
T1-1 to T1-8	548	290.0	4.0	9.0	8.0	9.0	
T1-6 to T1-B	204	132.5	4.0	9.0	8.0	9.0	
BD-1 to LF1	372	178.4	2.5	6.0	4.0	6.0	
LF1 to BD-4	372	178.6	2.5	6.0	4.0	6.0	
AC1-L to AC1-G	372	258.3	2.5	6.0	4.0	6.0	
-	-	-	-	-	-	GTM9100-P12048	
T1-3 to T1-8	500	275.4	4.0	9.0	8.0	9.0	
T1-4 to T1-A	468	266.4	4.0	9.0	8.0	9.0	
T1-5 to T1-11	284	138.3	4.0	9.0	8.0	9.0	
T1-1 to T1-8	508	285.9	4.0	9.0	8.0	9.0	
T1-6 to T1-B	212	134.0	4.0	9.0	8.0	9.0	
BD-2 to LF1	356	172.7	2.5	6.0	4.0	6.0	
LF1 to L1	356	173.1	2.5	6.0	4.0	6.0	
AC1-L to AC1-G	356	254.9	2.5	6.0	4.0	6.0	
supplementary information:							
-							

2.10.5	<b>TABLE: distance through insulation measurements</b>				Pass
distance through insulation di at/of:	Up (V)	test voltage (V)	required di (mm)	di (mm)	
LF1 to L1	356	2121	0.4	0.4	
AC Inlet to LF2	356	2121	0.4	0.4	
BD1 to LF1	356	2121	0.4	0.4	
Q1 to Dead Metal	284	2121	0.4	0.4	
supplementary information:					
-					

4.5	<b>TABLE: temperature rise measurements</b>						Pass
test voltage (V).....	90	120	240	264	-	—	

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Clause	Requirement + Test	Result - Remark	Verdict

	t1 (°C).....	25	25	25	25	-	—
	t2 (°C).....	-	-	-	-	-	—
	maximum temperature T of part/at:	T (°C)					allowed Tmax (°C)
-		-	-	-	-	-	GTM9100 P10012
	Ambient	20.2	19.4	20.8	23.5	-	-
	LF1 Winding	94.3	88.3	74.2	75.2	-	130
	LF2 Winding	85.8	80.9	70.5	71.1	-	130
	T1 Winding	91.5	87.3	85.1	85.6	-	120
	C9 Casing	94.0	90.8	89.3	90.0	-	105
	Q1 Casing	89.3	86.0	90.1	92.0	-	150
	Q3 Casing	89.0	84.9	85.6	87.2	-	150
	T2 Winding	108.5	105.9	105.9	106.9	-	155
	T2 Core	103.4	100.9	101.6	102.6	-	155
	Q6 Casing	97.1	95.0	94.6	99.9	-	150
	Enclosure	63.2	61.6	62.5	64.3	-	95
-		-	-	-	-	-	GTM9100 P10023
	Ambient	23.3	22.8	23.0	22.8	-	-
	T2 Winding	103.4	99.9	98.9	98.0	-	155
	T1 Winding	87.1	82.6	80.6	79.4	-	120
	T2 Core	97.5	93.9	93.5	92.8	-	155
	Q7 Casing	88.2	85.2	85.2	84.4	-	150
	C3 Casing	84.1	79.1	78.5	78.1	-	150
	BD1 Casing	83.6	78.7	75.4	74.6	-	150
	Q6 Casing	89.1	86.1	86.1	85.2	-	150
	Q1 Casing	86.0	81.5	83.7	83.2	-	150
	T1 Core	87.0	82.1	79.8	78.6	-	120
	C39 Casing	84.7	81.8	81.8	81.1	-	105
	Enclosure	56.1	54.1	55.8	53.8	-	95
-		-	-	-	-	-	GTM9100 P12024
	Ambient	21.5	22.9	22.7	23.1	-	-
	LF1 Winding	95.5	87.8	66.7	66.2	-	130
	LF2 Winding	89.2	82.8	65.1	64.7	-	130
	T1 Winding	92.4	87.2	76.9	76.0	-	120
	C9 Casing	90.9	86.8	78.0	77.7	-	105
	Q1 Casing	88.8	84.2	78.6	78.5	-	150
	Q3 Casing	89.6	84.1	75.7	75.7	-	150
	T2 Winding	103.1	99.8	92.6	92.4	-	155
	T2 Core	90.4	87.0	80.2	80.0	-	155
	Q6 Casing	83.5	80.9	75.5	75.5	-	150
	Enclosure	60.5	58.8	54.5	54.5	-	95
-		-	-	-	-	-	GTM9100

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						P12048
Ambient	24.3	24.1	21.5	22.1	-	-
LF1 Winding	96.1	89.7	66.7	66.4	-	130
LF2 Winding	90.1	84.3	63.5	63.3	-	130
T1 Winding	99.6	94.1	80.1	79.1	-	120
C9 Casing	87.7	85.1	75.7	75.7	-	105
Q1 Casing	86.6	83.2	79.1	79.2	-	150
Q3 Casing	87.0	82.7	75.1	75.3	-	150
T2 Winding	99.1	96.9	89.7	89.8	-	155
T2 Core	90.8	88.6	81.9	82.0	-	155
Q6 Casing	79.0	77.5	71.3	71.5	-	150
Enclosure	57.8	56.6	51.7	51.7	-	95
temperature T of winding:		R <sub>1</sub> (Ω)	R <sub>2</sub> (Ω)	T (°C)	allowed Tmax (°C)	insulation class
-	-	-	-	-	-	-
supplementary information:						
-						

4.5.2	<b>TABLE: ball pressure test of thermoplastics</b>				N/A
	allowed impression diameter (mm) .....				—
part	test temperature (°C)		impression diameter (mm)		
supplementary information:					

4.7	<b>TABLE: resistance to fire</b>				Pass
part	manufacturer of material	type of material	thickness(mm)	flammability class	
-	-	-	-	-	
supplementary information:					
Refer to Table 1.5.1.					

5.2	<b>TABLE: electric strength tests, impulse tests and voltage surge tests</b>			Pass
test voltage applied between:		test voltage (V) a.c./d.c.	breakdown Yes / No	
Primary to Chassis		2121	No	

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Clause	Requirement + Test	Result - Remark	Verdict

Primary to Secondary	5656	No
supplementary information:		
-		

5.3	TABLE: fault condition tests						Pass
	ambient temperature (°C) .....	:	25				—
	model/type of power supply .....	:	see below				—
	manufacturer of power supply .....	:	GlobTek				—
	rated markings of power supply.....	:	100-240 Vac, 2 A, 50/60 Hz				—
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
-	-	-	-	-	-	GTM9100P10012	
IC1-1	Short	264	2 sec.	F1	-	CD (C9, D2 repeated three times with same result) ; NB, NC, CT	
-	-	-	-	-	-	GTM9100P12024	
Q1-D to S	Short	264	1 sec.	F1	-	F1 cleared, NB, NC, NT	
IC5-1	Short	264	1 sec.	F1	-	IP (F1, F2); NB, NC, NT	
D3-A to C	Short	264	2 hrs.	F1	0.556	CT, NB, NC, NT	
-	-	-	-	-	-	GTM9100P12048	
Q1-D to S	Short	264	1 sec.	F1	-	IP (F1, F2), NB, NC, NT	
supplementary information:							
Fuse curves provided for alternate components under Enclosures in the Miscellaneous section. Results Key: IP = Internal protection operated (component indicated) CT = Constant temperatures were obtained TW = Transformer winding opened CD = Components damaged (damaged components indicated) NB = No indication of dielectric breakdown YB = Dielectric breakdown (time and location indicated) NC = Cheesecloth remained intact YC = Cheesecloth charred or flamed NT = Tissue paper remained intact YT = Tissue paper charred or flamed							