

COVER PAGE FOR TEST REPORT

Test Item Description: Switch-mode Power Supply

Model/Type Reference: GT-9100P Series

Note:

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.

Rating(s): Input: Voltage: 100-240 Vac, Current: 2 A, Frequency: 50-60 Hz

Output ratings: see below

Model	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

Standards: IEC 60950-1:2001, First Edition

Applicant Name and Address: GLOBTEK, INC.
186 VETERANS DRIVE
NORTHVALE, NJ 07647 USA

Factory Location(s): GLOBTEK, INC.

This Report includes the following parts, in addition to this cover page:

1. Specific Technical Criteria
2. Clause Verdicts
3. Test Results
4. Enclosures
 - a. National Differences
 - b. Miscellaneous

The original report was modified on 2007-07-17 to include the following changes/additions:
Name and address of the factory have been changed. Some missing clauses have been added.

All applicable tests according to the above standard(s) have been carried out.
Test results are valid only for the tested equipment.
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Test Report issued under
the responsibility of:



Underwriters Laboratories Inc.

TEST REPORT
IEC 60950-1, First Edition
Information technology equipment-Safety
Part 1: General Requirements

Report Reference No : E170507-A11-CB-1
Date of issue : 2006-05-22
Total number of pages : 10

CB Testing Laboratory : Underwriters Laboratories Inc.
Address : 1285 Walt Whitman Road, NY, 11747, USA

Applicant's name : GLOBTEK, INC.
Address : 186 VETERANS DRIVE
NORTHVALE, NJ 07647 USA

Test specification:
Standard : IEC 60950-1:2001, First Edition
Test procedure : CB Scheme
Non-standard test method : N/A

Test Report Form No. : IEC60950_1B
Test Report Form originator : SGS Fimko Ltd
Master TRF : dated 2003-03

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and

appended to a CB Test Certificate issued by an NCB in accordance with IEC60950 2.2.

Test item description

Switch-mode Power Supply

Trade Mark



Model/Type reference

GT-9100P Series

Note:

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.

Manufacturer



GLOBTEK, INC.
186 VETERANS DRIVE
NORTHVALE, NJ 07647 USA

Rating

Input: Voltage: 100-240 Vac, Current: 2 A, Frequency: 50-60 Hz

Output ratings: see below

Model	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

Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory	
Testing location / address..... :	Underwriters Laboratories Inc. 1285 Walt Whitman Road, NY, 11747, USA
<input type="checkbox"/> Associated CB Test Laboratory	
Testing location / address..... :	
Tested by (name + signature) :	Roy Shinmachi 
Approved by (+ signature)..... :	David V. Alma 
<input type="checkbox"/> Testing Procedure: TMP	
Tested by (name + signature) :	_____
Approved by (+ signature)..... :	_____
Testing location / address..... :	_____
<input type="checkbox"/> Testing Procedure: WMT	
Tested by (name + signature) :	_____
Witnessed by (+ signature)..... :	_____
Approved by (+ signature)..... :	_____
Testing location / address..... :	_____
<input type="checkbox"/> Testing Procedure: SMT	
Tested by (name + signature) :	_____
Approved by (+ signature)..... :	_____
Supervised by (+ signature) :	_____
Testing location / address..... :	_____
<input type="checkbox"/> Testing Procedure: RMT	
Tested by (name + signature) :	_____
Approved by (+ signature)..... :	_____
Supervised by (+ signature) :	_____
Testing location / address..... :	_____

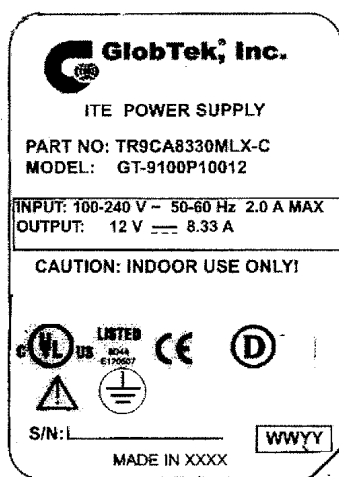
Summary of Testing:

No tests were conducted

Summary of Compliance with National Differences:

AR, AT, AU, BE, CA, CH, CZ, DE, DK, ES, EU, FI, FR, GB, GR, HU, IE, IL, KR, MY, NL, NO, NZ,
PL, PT, SE, SI, SK, US

Copy of Marking Plate



Test item particulars :	
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	P(Pass)
- test object does not meet the requirement	F(Fail)
Testing:	
Date(s) of receipt of test item	N/A
Date(s) of Performance of tests	N/A
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p> <p>Refer to the Cover Page For Test Report for a list of all Factory Locations.</p>	

GENERAL PRODUCT INFORMATION:
Report Summary
The original report was modified on 2006-06-15 to include the following changes/additions: Added factory location in China.

The original report was modified on 2007-07-17 to include the following changes/additions:
Name and address of the factory have been changed. Some missing clauses have been added.

Product Description

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.

Model Differences

Differences within the GT-9100P family is limited to minor component changes to determine specific output voltage and current parameters.

The 9100 Series is the family model designation which is represented by the following generic nomenclature:

GT-9100PXXXYY-Z.Z-D where:

GT- designates GlobTek models with ITE safety approval while:

- 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;

Standard Models:

	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

Note - This nomenclature only covers models employing output ratings equivalent to or less than those listed in Standard Models table.

Additional Information

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.

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.

Testing was performed on Models GT-9100P10012, GT-9100P10023, GT-9100P12024 and GT-9100P12048. This testing represents all models in the series.

A Manufacturer's Letter of Assurance is not required since there are no special warnings or cautions on the unit or it's label.

Technical Considerations

The Model GT-9100P Series is considered Class I (protectively earthed).

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.

These products were submitted and tested for use at the manufacturer's recommended ambient temperature (T_{mra}) of 60°C.

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.3	Rated current (A), cross-sectional area (mm ²), AWG	16 AWG	-
2.6.4.2	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.	-
2.9.2	Humidity (%)	95%	-
	Temperature (°C).....	31°C	-
2.10.4	CTI tests	Material group IIIb; 100 ≤ CTI < 175.	-
2.10.5.2	Thin sheet material		N/A
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
3.4.2	Disconnect devices	Disconnect from is made via IEC 60320 Appliance Inlet and a detachable power cord.	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
4.7.2.1	Parts requiring a fire enclosure		N/A
4.7.2.2	Parts not requiring a fire enclosure		N/A

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

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

Enclosure

National Differences

Argentina*
Australia / New Zealand
Austria**
Belgium**
Czech Republic**
Denmark
Finland
France**
Germany
Greece**
Group
Hungary*
Ireland*
Israel*
Korea
Malaysia*
Netherlands**
Norway
Poland*
Portugal*
Slovakia**
Slovenia*
Spain*
Sweden
Switzerland**
USA / Canada
United Kingdom

* No National Differences Declared

** Only Group Differences

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

USA / Canada - Differences to IEC 60950-1:2001, First Edition			
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 to the user, as determined using the articulated accessibility probe (figure NAF.1) and the accessibility probe/wedge (figures NAF.2/NAF.3).		N/A

Enclosure

Miscellaneous

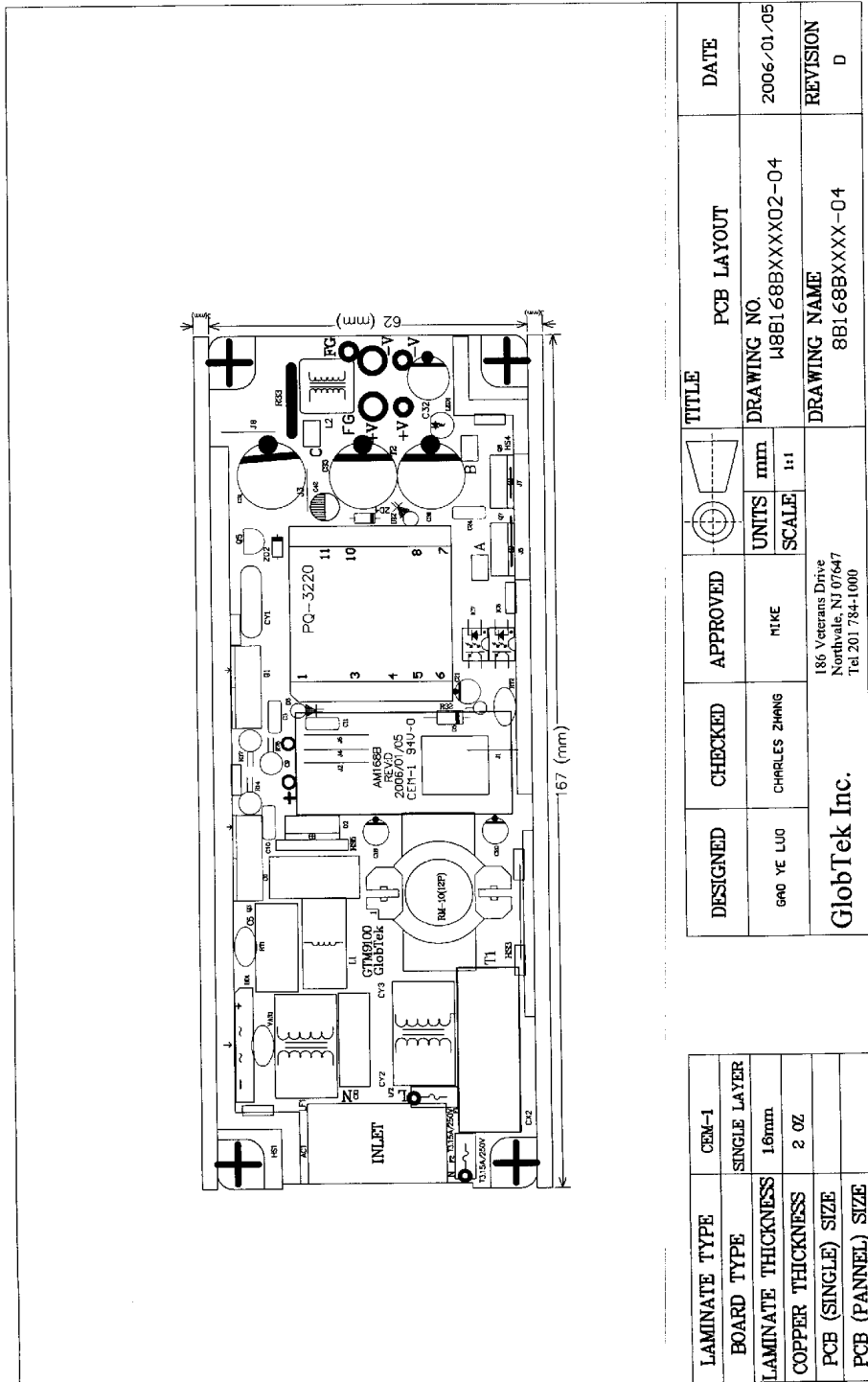
Supplement Id	Description
7-01	Specification
7-06	Fuse Curve (Conquer)
7-07	Fuse Curve (Walker)
7-08	Fimko Optocoupler List

Enclosure

Diagrams

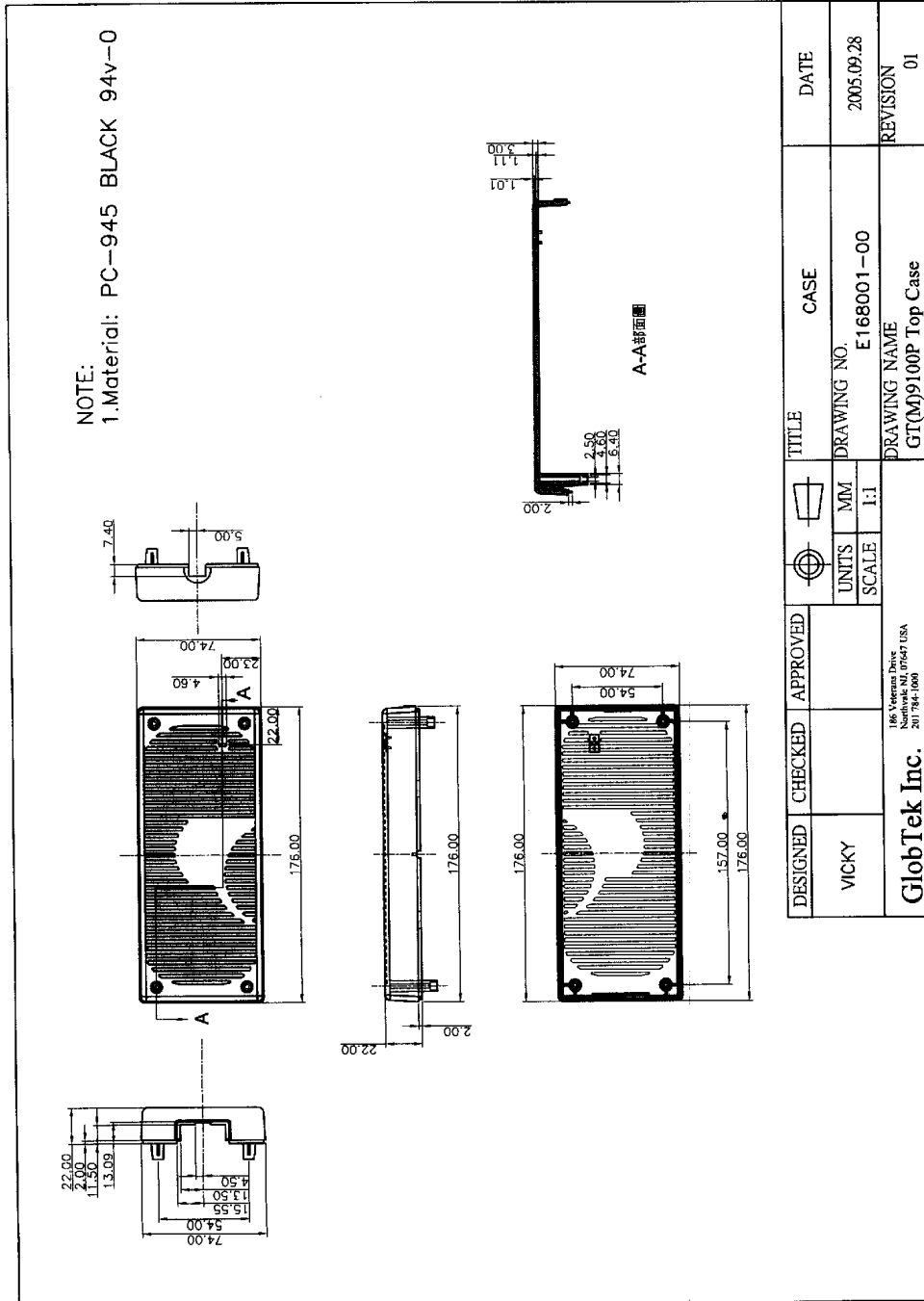
Supplement Id	Description
4-01	Component Layout
4-02	Enclosure Assembly
4-03	Transformer, T2: 12 V
4-04	Transformer, T2: 24 V
4-05	Transformer, T2: 48 V
4-06	T2 Top Heatsink
4-07	T2 Top Heatsink Insulation
4-08	T2 Bottom Heatsink
4-09	T2 Bottom Heatsink Insulation

Diagrams ID 4-01



LAMINATE TYPE	CEM-1	DESIGNED	GAO YE LUO	CHECKED	CHARLES ZHANG	APPROVED	MIKE	UNITS	mm	SCALE	1:1	TITLE	PCB LAYOUT	DATE	2006-01-05
BOARD TYPE	SINGLE LAYER											DRAWING NO.	W8B1.68BXXXXX02-04	REVISION	D
LAMINATE THICKNESS	1.6mm											DRAWING NAME	8B1.68BXXXX-04		
COPPER THICKNESS	2 OZ.											186 Veterans Drive Northvale, NJ 07647 Tel. 201 784-1000			
PCB (SINGLE) SIZE		GlobTek Inc.													
PCB (PANNEL) SIZE															

Diagrams ID 4-02



DESIGNED	CHECKED	APPROVED	TITLE	CASE	DATE
VICKY			DRAWING NO.	E168001-00	2005.09.28
186 Veterans Drive Norwalk, NJ 07647 USA 201-784-1000			UNITS	MM	REVISION
GlobTek Inc.			SCALE	1:1	
			DRAWING NAME		
			GTM9100P Top Case		

Issue Date: 2006-05-22
Correction 1 2006-06-15

Page 1 of 3

Report Reference #

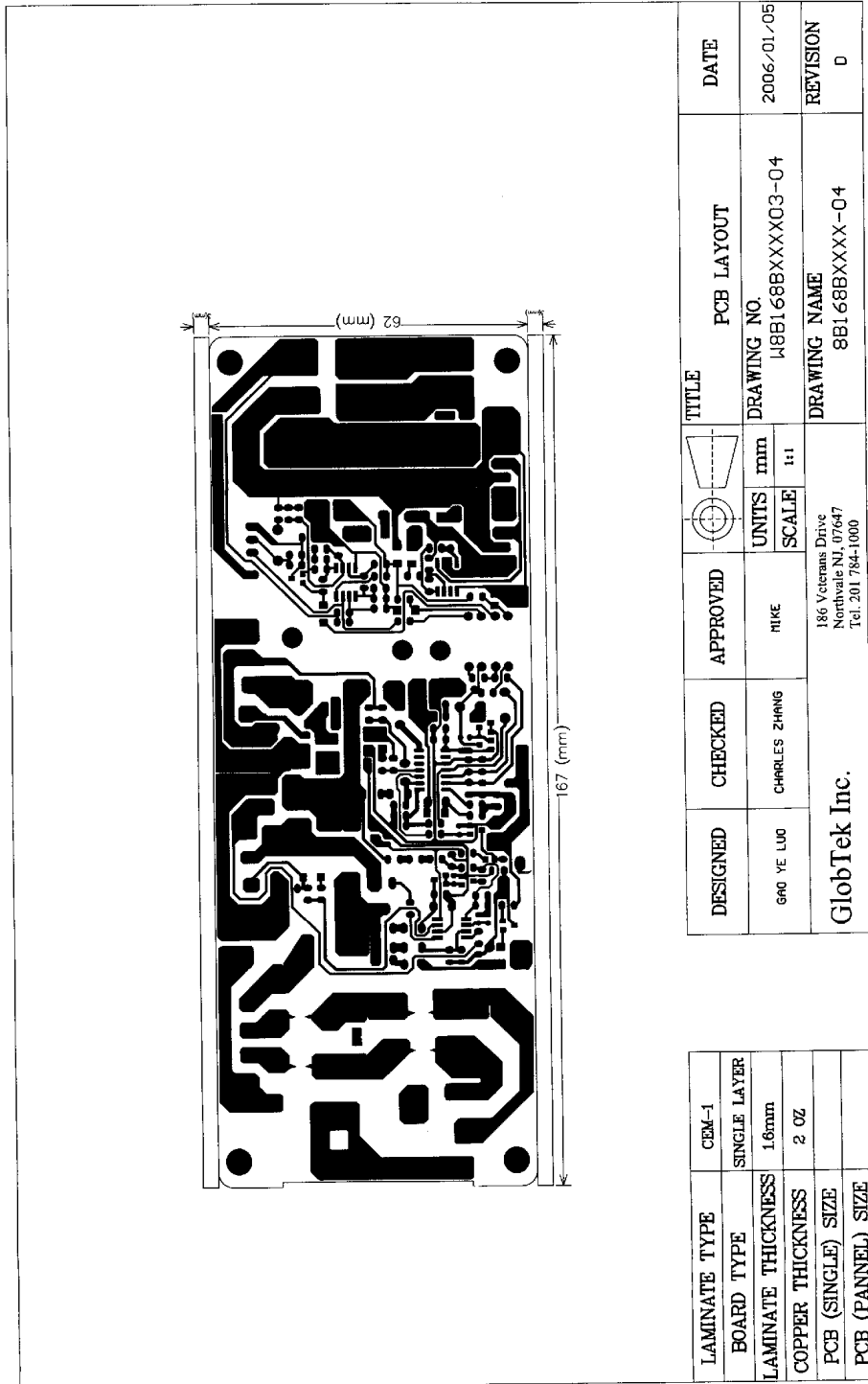
E170507-A11-CB-1

Enclosure

Schematics + PWB

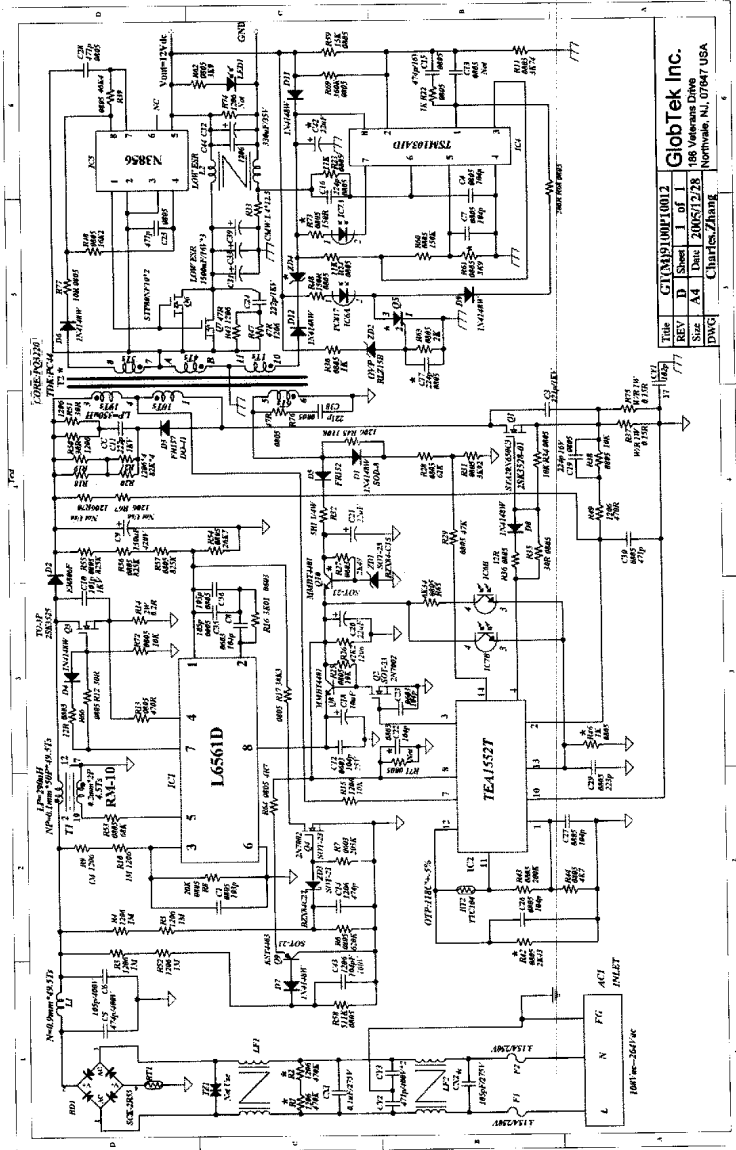
Supplement Id	Description
5-01	Printed Wiring Board
5-02	Schematic

Schematics ID 5-01



LAMINATE TYPE	CEM-1	TITLE		DATE
BOARD TYPE	SINGLE LAYER		PCB LAYOUT	
LAMINATE THICKNESS	1.6mm		DRAWING NO.	2006.01.05
COPPER THICKNESS	2 OZ	UNITS	18B168BXXXXX03-04	REVISION
PCB (SINGLE) SIZE		SCALE	8B168BXXXX-04	0
PCB (PANNEL) SIZE		APPROVED MIKE 186 Veterans Drive Northvale NJ, 07647 Tel. 201.784-1000		
		DESIGNED	GRO YE LUO	Checked
		CHECKED	CHARLES ZHANG	DESIGNED
		GlobTek Inc. 186 Veterans Drive Northvale NJ, 07647 Tel. 201.784-1000		

Schematics ID 5-02



Issue Date: 2006-05-22
Correction 1 2006-06-15

Page 1 of 2

Report Reference #

E170507-A11-CB-1

Enclosure

Miscellaneous

Supplement Id	Description
7-01	Specification
7-02	GT-9100P Series Label
7-06	Fuse Curve (Conquer)
7-07	Fuse Curve (Walker)
7-08	Fimko Optocoupler List

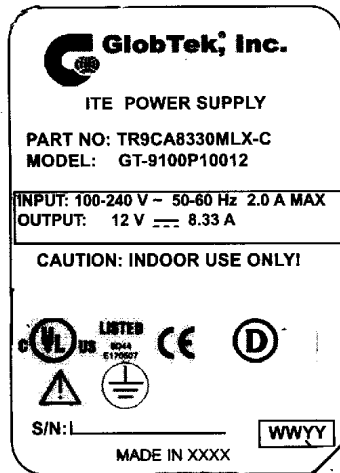
Issue Date: 2006-05-22
Correction 1 2006-06-15

Page 2 of 2

Report Reference #

E170507-A11-CB-1

Misc ID 7-02



TEST REPORT
IEC 60950-1, First Edition
Information technology equipment - Safety -
Part 1: General Requirements

Report Reference No: E170507-A11-CB-1

Compiled by (+ signature).....: Michael Lavorata



Reviewed by (+ signature).....: David Alma



Date of issue: 2006-05-22

CB Testing Laboratory: Underwriters Laboratories Inc.

Address: 1285 Walt Whitman Road, NY, 11747, USA

Testing location/procedure: CBTL SMT TMP WMT

Address: Underwriters Laboratories Inc. 1285 Walt Whitman Road, NY, 11747, USA

Applicant's name: GLOBTEK INC

186 VETERANS DR

Address: NORTHVALE NJ 07647

Test specification:

Standard: IEC 60950-1:2001, First Edition

Test procedure : CB Scheme

Non-standard test method: N/A

Test Report Form No.: IEC60950__1A


TRF originator: SGS Fimko Ltd

Master TRF: dated 2002-03

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Test item description: Switch-mode Power Supply

Trade Mark: 

Model/Type reference : GT-9100P Series

Note:

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.

Manufacturer	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 USA																																				
Rating	Input: Voltage: 100-240 Vac, Current: 2 A, Frequency: 50-60 Hz Output ratings: see below																																				
	<table border="1"> <thead> <tr> <th>Model</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>	Model	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-9100P12036-X.X	36.0	3.33																																			
GT-9100P12048-X.X	48.0	2.50																																			

Marking Plate - Refer to Enclosure titled Miscellaneous for copy.

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	: P(Pass)
- test object does not meet the requirement	: F(Fail)

General remarks:

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The test results presented in this report relate only to the object tested.
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"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

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

General Product Information:**Report Summary**

All applicable tests according to the referenced standard(s) have been carried out.

Product Description

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.

Model Differences

Differences within the GT-9100P family is limited to minor component changes to determine specific output voltage and current parameters.

The 9100 Series is the family model designation which is represented by the following generic nomenclature:

GT-9100PXXXYY-Z.Z-D where:

GT- designates GlobTek models with ITE safety approval while:

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;

Standard Models:

	Vdc	A
GT-9100P7005	5.0	14.00
GT-9100P10009-X.X	9.0	11.00
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GT-9100P12036-X.X	36.0	3.33
GT-9100P12048-X.X	48.0	2.50

Note - This nomenclature only covers models employing output ratings equivalent to or less than those listed in Standard Models table.

Additional Information

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.

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.

Testing was performed on Models GT-9100P10012, GT-9100P10023, GT-9100P12024 and GT-9100P12048. This testing represents all models in the series.

A Manufacturer's Letter of Assurance is not required since there are no special warnings or cautions on the unit or it's label.

Technical Considerations

The Model GT-9100P Series is considered Class I (protectively earthed).

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.

These products were submitted and tested for use at the manufacturer's recommended ambient temperature (T_{mra}) of 60°C.

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

1	GENERAL		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	Power interface		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

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Clause	Requirement + Test	Result - Remark	Verdict
1.7	Marking and instructions		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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
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		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

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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		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
	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

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Clause	Requirement + Test	Result - Remark	Verdict

2.2	SELV circuits		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	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
	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

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Clause	Requirement + Test	Result - Remark	Verdict

2.4	Limited current circuits		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	Limited power sources		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):		-

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Clause	Requirement + Test	Result - Remark	Verdict

2.6	Provisions for earthing and bonding		Pass
2.6.1	Protective earthing		Pass
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 ²), AWG		-
2.6.3.3	Size of protective bonding conductors		Pass
	Rated current (A), cross-sectional area (mm ²), 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: 40A (12Vac 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)		-
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

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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	Overcurrent and earth fault protection in primary circuits		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	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
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

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Clause	Requirement + Test	Result - Remark	Verdict

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials		Pass
2.9.2	Humidity conditioning		Pass
	Humidity (%) :		-
	Temperature (°C)..... :		-
2.9.3	Grade of insulation		Pass

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Clause	Requirement + Test	Result - Remark	Verdict

2.10	Clearances, creepage distances and distances through insulation		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..... :		-
2.10.5	Solid insulation		Pass
2.10.5.1	Minimum distance through insulation		Pass
2.10.5.2	Thin sheet material		Pass
	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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
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

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		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
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

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Clause	Requirement + Test	Result - Remark	Verdict

3.2	Connection to an a.c. mains supply or a d.c. mains supply		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 320 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 ²), 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	Wiring terminals for connection of external conductors		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 ²)		-
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	Disconnection from the mains supply		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	Disconnect from is made via IEC 320 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

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Clause	Requirement + Test	Result - Remark	Verdict

3.5	Interconnection of equipment		N/A
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	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		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

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Clause	Requirement + Test	Result - Remark	Verdict

4.3	Design and construction		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
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

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Clause	Requirement + Test	Result - Remark	Verdict

	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	Maximum temperatures		Pass
	Normal load condition per Annex L :		N/A
4.5.2	Resistance to abnormal heat		N/A

4.6	Openings in enclosures		N/A
4.6.1	Top and side openings		N/A
	Dimensions (mm)..... :		-
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottom..... :		-
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) :		-

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Clause	Requirement + Test	Result - Remark	Verdict

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

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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		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 (60Hz)	-
	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

5.2	Electric strength		Pass
5.2.1	General		Pass
5.2.2	Test procedure		Pass

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Clause	Requirement + Test	Result - Remark	Verdict

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

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Clause	Requirement + Test	Result - Remark	Verdict

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

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		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

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Clause	Requirement + Test	Result - Remark	Verdict

A	Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		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
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s).....		-
	Sample 2 burning time (s).....		-
	Sample 3 burning time (s).....		-

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Clause	Requirement + Test	Result - Remark	Verdict

A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		-
	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	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

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

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Clause	Requirement + Test	Result - Remark	Verdict

C	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Pass
	Position	Refer to Table 1.5.1	-
	Manufacturer.....	Refer to Table 1.5.1	-
	Type.....	Isolation	-
	Rated values	100W and 120W units	-
	Method of protection	None	-
C.1	Overload test	See 5.3.6.	Pass
C.2	Insulation	(see transformer construction in appeneded table 2.10.3 and Enclosure for details)	Pass
	Protection from displacement of windings.....	Triple insulated wire used.	Pass

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

E	Annex E, TEMPERATURE RISE OF A WINDING		Pass
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F	Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		Pass
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Clause	Requirement + Test	Result - Remark	Verdict

G	Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		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	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
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J	Annex J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
	Metal used :		-

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)		N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict

L	Annex L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		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	Annex M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringling signal		N/A
M.3.1.1	Frequency (Hz)		-
M.3.1.2	Voltage (V)		-
M.3.1.3	Cadence; time (s), voltage (V)		-
M.3.1.4	Single fault current (mA)		-
M.3.2	Tripping device and monitoring voltage		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)		N/A

N	Annex N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
P	Annex P, NORMATIVE REFERENCES		N/A
Q	Annex Q, BIBLIOGRAPHY		N/A
R	Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A
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
 :	Furukawa TEX-E wire provided. 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.	-

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Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: list of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
Enclosure	GE	GE 940	V-0, 3.5 mm min., 105 degrees C max.	UL 94	UL R/C, CSA	
AC Inlet	Yecx	TU-301-SP	250V, 15A or better; C14 type	UL 498 IEC 60884	UL R/C, VDE, D, CCC	
AC Inlet	various	various	250V, 15A or better; C14 type	UL 498 IEC 60884	UL R/C, VDE, D, CCC	
Output Cable	Lu Chiang Electric	XT	SPT-1 or SPT-2, 18 AWG, VW-1, 105°C	IEC 60799	LISTED, CSA	
Diode Bridge, D1	Sep	SEP 51A	8A, 600V or better	Tested in power supply.	--, --	
Alternate Diode Bridge, D1	Panjit	various	8A, 600V or better	Tested in power supply.	--, --	
Alternate Diode Bridge, D1	various	various	8A, 600V or better	Tested in power supply.	--, --	
Printed Wiring Board	Jian he	AM 168	V-1 or better, 130°C	UL 796 IEC 60603-2	UL R/C, --	
Alternate Printed Wiring Board	Cheer	AM 168	V-1 or better, 130°C	UL 796 IEC 60603-2	UL R/C, --	
Fuses, F1, F2	Walter	2010	3.15A, 250V	UL 198 IEC 60127	UL R/C, VDE	
Alternate Fuses F1, F2	Conquer	MST	3.15A, 250V	UL 198 IEC 60127	UL R/C, VDE	
Varistor, VAR1	Thinking	TVR07471K	470 V	UL 1434 IEC 60730	UL R/C, CSA, VDE	
Alternate Varistor, VAR1	Joyin	JVR-07N471K65YRW-L	470 V	UL 1434 IEC 60730	UL R/C, CSA	
Alternate Varistor, VAR1	various	various	470 V	UL 1434 IEC 60730	UL R/C, CSA	
Thermistor, RT	Thinking	SCK-2855A	5.5 ohm, 5 A min.	UL 1434 IEC 60730	UL R/C, CSA, TUV, CQC	
Alternate Thermistor, RT	various	various	5.5 ohm, 5 A min.	UL 1434 IEC 60730	UL R/C, CSA, TUV, CQC	
Photo coupler, IC6, IC7	Sharp	PC817A	Distance > 0.4 mm; 5000 vac isolation min.	UL 1577 IEC 60947	UL R/C, VDE, S, F, N, CSA, BSI	
Alternate Photo coupler, IC6, IC7	Vishay	TCET1107G	Distance > 0.4 mm; 5000 vac isolation min.	UL 1577 IEC 60947	UL R/C, VDE, S, F, N, CSA, BSI	
Alternate Photo coupler, IC6, IC7	Liteon	LTV817	Distance > 0.4 mm; 5000 vac isolation min.	UL 1577 IEC 60947	UL R/C, VDE, S, F, N, CSA, BSI	

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Clause	Requirement + Test		Result - Remark		Verdict
Alternate Photo coupler, IC6, IC7	various	various	Distance > 0.4 mm; 5000 vac isolation min.	UL 1577 IEC 60947	UL R/C, VDE, S, F, N, CSA, BSI
MOSFET, Q1	Fuji	2SK3337-01	17 A/600 V or better	Tested in power supply.	--, --
Alternate MOSFET, Q1	various	various	17 A/600 V or better	Tested in power supply.	--, --
Line Choke, LF1	Yao Sheng	AM688B-LF1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW or M7AGHB.	Tested in power supply.	--, --
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.	Tested in power supply.	--, --
Line Choke, LF2	Yao Sheng	AM688B-LF2	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	Tested in power supply.	--, --
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.	Tested in power supply.	--, --
Bridge Diode, BD1	Panjit	KG600P	8 A, 600 V or better	Tested in power supply.	--, --
Alternate Bridge Diode, BD1	various	various	8 A, 600 V or better	Tested in power supply.	--, --
Capacitor, C9	Rubicon	MXG Series	420 V, 47 uF, 105°C min.	Tested in power supply.	--, --
Alternate Capacitor, C9	various	various	420 V, 47 uF, 105°C min.	Tested in power supply.	--, --
Transformer, T1	Yao Sheng	AM168B-T1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	Tested in power supply.	--, --
Alternate Transformer, T1	Dong-Guan Shek-Kit Top	AM168B-T1	Class B (130°C) designated YST-	Tested in power supply.	--, --

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Clause	Requirement + Test			Result - Remark	Verdict
	Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.		JC1, M7A90, M7A90, M7AGHB or GTX-1.		
Transformer, T2	Yao Sheng	AM168B-T2-12V-A	Class F (155°C) designated RXT-2.	Tested in power supply.	--, --
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.	Tested in power supply.	--, --
Transformer, T2	Yao, Sheng	AM168B-T2-19V-A	Class F (155°C) designated RXT-2.	--	--, --
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.	--	--, --
Transformer, T2	Yao Sheng	AM168B-T2-23V-A	Class F (155°C) designated RXT-2.	Tested in power supply.	--, --
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.	Tested in power supply.	--, --
Transformer, T2	Yao Sheng	AM168B-T2-24V-A	Class F (155°C) designated RXT-2.	Tested in power supply.	--, --
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.	Tested in power supply.	--, --
Transformer, T2	Yao Sheng	AM168B-T2-36V-A	Class F (155°C) designated RXT-2.	--	--, --
Alternate Transformer, T2	Dong-Guan Shek-Kit Top	AM168B-T2-36V-A	Class F (155°C) designated RXT-	--	--, --

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Clause	Requirement + Test			Result - Remark	Verdict
	Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.		2.		
Transformer, T2	Yao Sheng	AM168B-T2-48V-A	Class F (155°C) designated RXT-2.	Tested in power supply.	--, --
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.	Tested in power supply.	--, --
Capacitor, CX1	Ultra Tech	HQX	0.1 uF, 275 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CX1	Chen Tong	CTX	0.1 uF, 300 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CX1	Camel	MPX	0.1 uF, 275 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CX1	various	various	0.1 uF, 275 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Capacitor, CX2	Ultra Tech	HQX	1 uF, 275 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CX2	Chen Tong	CTX	1 uF, 300 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CX2	Camel	MPX	1 uF, 275 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CX2	various	various	1 uF, 275 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Capacitor, CY1	Success	Y1 (SE Type)	102 pF, 400 V max.	UL 1283 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CY1	Pan Overseas	Y1 (AH Type)	102 pF, 400 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CY1	TDK	Y1 (CD Type)	102 pF, 400 V max.	UL 1414 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CY1	various	various	102 pF, 400 V max.	UL 1283 IEC 60384	UL R/C, CSA, VDE, FI
Capacitor, CY2, CY3	Ultra Tech	Y1 (SE Type)	471 pF, 400 V max.	UL 1283 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CY2, CY3	Chen Tong	Y1 (AH Type)	471 pF, 400 V max.	UL 1283 IEC 60384	UL R/C, CSA, VDE, FI
Alternate Capacitor, CY2, CY3	TDK	Y1 (CD Type)	471 pF, 400 V max.	UL 1283 IEC 60384	UL R/C, CSA, VDE, FI
Alternate	various	Various	471 pF, 400 V	UL 1283 IEC	UL R/C, CSA,

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Clause	Requirement + Test	Result - Remark	Verdict

Capacitor, CY2, CY3			max.	60384	VDE, FI
Mylar Insulation	Lcecl Enterprise Co. Ltd.	AM168B-M1-B	Dielectric Withstand 1500 V min.	UL 94	UL R/C, --
Alternate Mylar Insulation	Lcecl Enterprise Co. Ltd.	AM168B-M2	Dielectric Withstand 1500 V min.	UL 94	UL R/C, --
PC Film	Lcecl Enterprise Co. Ltd.	FR-700	O.432 mm thick min.	UL 94	UL R/C, --
PC Film	various	various	O.432 mm thick min.	UL 94	UL R/C, --
¹⁾ an asterisk indicates a mark which assures the agreed level of surveillance					

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Clause	Requirement + Test	Result - Remark	Verdict

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	TABLE: clearance and creepage distance measurements						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	TABLE: distance through insulation measurements				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	TABLE: temperature rise measurements						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

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

						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 ₁ (Ω)	R ₂ (Ω)	T (°C)	allowed Tmax (°C)	insulation class
-	-	-	-	-	-	-
supplementary information:						
-						

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

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

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

IEC 60950-1			
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						

Enclosure
National Differences

(Total 27 Pages including this Cover Page)

Argentina*
Australia / New Zealand
Austria**
Belgium**
Czech Republic*
Denmark
Finland
France*
Germany
Greece**
Group
Hungary*
Ireland*
Israel*
Korea
Malaysia*
Netherlands**
Norway
Poland*
Portugal*
Slovakia*
Slovenia*
Spain*
Sweden
Switzerland
USA / Canada
United Kingdom

* No National Differences Declared

** Only Group Differences

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

Australia / New Zealand - Differences to IEC 60950-1:2001, First Edition																																	
1.2.12.11	<p>POTENTIAL IGNITION SOURCE</p> <p>Possible fault which can starts a fire if the open-circuit voltage measured across an interruption or faulty contact exceeds a value of 50 V (peak) a.c. or d.c. and the product of the peak value of this voltage and the measured r.m.s. current under normal operating conditions exceeds 15VA.</p> <p>Such a faulty contact or interruption in an electrical connection includes those which may occur in conductive patterns on printed boards.</p> <p>Note 201: An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE.</p>		N/A																														
1.5.1	Add to the first paragraph: "or the relevant Australian / New Zealand Standard".		Pass																														
1.5.2	Add to the first and third dashed items after the words "IEC Component Standard": "or the relevant Australian / New Zealand Standard".		Pass																														
1.6.1	Add: AC power distribution systems classified as TT or IT are not allowed	Unit investigated for use on TN(-S) system.	Pass																														
1.7.12	Add to the first paragraph: All safety instructions and safety markings shall be in English.	Add to the first paragraph: All safety instructions and safety markings shall be in English.	N/A																														
3.2.5	<p>Substitute for Table 3B: Sizes of Conductors</p> <table border="1"> <thead> <tr> <th>Rated Current of Equipment (A)</th> <th>Nominal cross-sectional area (mm²)</th> </tr> </thead> <tbody> <tr> <td>0.2 <= 3</td> <td>0.5*</td> </tr> <tr> <td>3 <= 7.5</td> <td>0.75</td> </tr> <tr> <td>7.5 <= 10</td> <td>(0.75) 1.00</td> </tr> <tr> <td>10 <= 16</td> <td>(1,0) 1.5</td> </tr> <tr> <td>16 <= 25</td> <td>2.5</td> </tr> <tr> <td>25 <= 32</td> <td>4</td> </tr> <tr> <td>32 <= 40</td> <td>6</td> </tr> <tr> <td>40 <= 63</td> <td>10</td> </tr> <tr> <td>63 <= 80</td> <td>16</td> </tr> <tr> <td>80 <= 100</td> <td>25</td> </tr> <tr> <td>100 <= 125</td> <td>35</td> </tr> <tr> <td>125 <= 160</td> <td>50</td> </tr> <tr> <td>160 <= 190</td> <td>70</td> </tr> <tr> <td>190 <= 230</td> <td>95</td> </tr> </tbody> </table>	Rated Current of Equipment (A)	Nominal cross-sectional area (mm ²)	0.2 <= 3	0.5*	3 <= 7.5	0.75	7.5 <= 10	(0.75) 1.00	10 <= 16	(1,0) 1.5	16 <= 25	2.5	25 <= 32	4	32 <= 40	6	40 <= 63	10	63 <= 80	16	80 <= 100	25	100 <= 125	35	125 <= 160	50	160 <= 190	70	190 <= 230	95		N/A
Rated Current of Equipment (A)	Nominal cross-sectional area (mm ²)																																
0.2 <= 3	0.5*																																
3 <= 7.5	0.75																																
7.5 <= 10	(0.75) 1.00																																
10 <= 16	(1,0) 1.5																																
16 <= 25	2.5																																
25 <= 32	4																																
32 <= 40	6																																
40 <= 63	10																																
63 <= 80	16																																
80 <= 100	25																																
100 <= 125	35																																
125 <= 160	50																																
160 <= 190	70																																
190 <= 230	95																																

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	230 <= 260 120 260 <= 300 150 300 <= 340 185 340 <= 400 240 400 <= 460 300 ----- * This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord or cord guard, enters the appliance, and the entry to the plug, does not exceed 2 m (0.5 mm ² three-core supply flexible cords are not permitted; see Note 2 to Table 2.17 of AS/NZS 3191).		
4.3.6	Replace the third paragraph: Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin socket-outlet complying with AS/NZS 3112, shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.		N/A
4.3.13	For the purpose of this standard compliance with AS/NZS 2211.1 is deemed to be compliance with IEC60825.1		N/A
4.7	Add after the clause: For alternative resistance to fire tests, refer to Annex YY.		N/A
6.2.1	Replace item c) with: An SELV circuit, a TNV-2 circuit or a Limited Current Circuit provided for connection of other equipment. The requirement for separation applies whether or not this circuit is accessible.		N/A
6.2.2	Replace the first paragraph by: In Australia (not in New Zealand), compliance with 6.2.2 is checked by the tests of both 6.2.2.1 and 6.2.2.2.		N/A
6.2.2.1	Replace 6.2.2.1 with: In Australia (not in New Zealand), the electrical separation is subjected to 10 impulses of alternating polarity, using the impulse test generator of Annex N for 10/700µs impulses. The interval between successive impulses is 60 s and the initial voltage, U _c is: - for 6.2.1a): 7.0 kV for hand-held telephones and for headsets; 2.5 kV for other equipment; for 6.2.1b) and		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>6.2.1c): 1.5 kV.</p> <p>NOTE 1 - The 7 kV impulse is to simulate lightning surges on typical rural and semi-rural network lines.</p> <p>NOTE 2 - The value of 2.5 kV for 6.2.1a) was chosen to ensure adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.</p>		
6.2.2.2	<p>Replace the first and second paragraphs of 6.2.2.2 with: In Australia (not New Zealand), the electrical separation is subjected to an electric strength test according to 5.2.2.</p> <p>The a.c. test voltage is:</p> <ul style="list-style-type: none"> - for 6.2.1a) 3 kV - for 6.2.1b) and 6.2.1c) 1.5 kV <p>NOTE 1 - Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used.</p> <p>NOTE 2 - The 3 kV and 1.5 kV values have been determined considering the low frequency induced voltages from the power supply distribution system.</p>		N/A

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

Denmark - Differences to IEC 60950-1:2001, First Edition			
1.2.4.1	Certain types of Class I appliances (see sub-clause 3.2.1.1) may be provided with plug not establishing earthing continuity when inserted into Danish socket-outlets.		Pass
1.7.2	Supply cords of Class I equipment, which is delivered without a plug, must be provided with a visible tag with the following text: "Vigtigt ! Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket (IEC 417, No. 5019) eller (IEC 417, No. 5017)." If essential for the safety of the equipment, the tag must in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text: "For tilslutning af de øvrige ledere, se medfølgende installationsvejledning".		N/A
1.7.5	Socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For stationary equipment, the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.		N/A
1.7.5	Class II equipment shall not be fitted with socket-outlets for providing power to other equipment.		N/A
3.2.1.1	Supply cord of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. Class I equipment provided with socket-outlets with earth contact or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a rated current exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	Regulations, Section 107-2-D1 or EN 60309-2.		

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

Finland - Differences to IEC 60950-1:2001, First Edition			
1.7.2	<p>Class I Pluggable Equipment Type A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text shall be:</p> <p>"Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan"</p>		N/A
6.1.2.1	<p>Add the following text between the first and second paragraph:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0.4 mm, which shall pass the electric strength test below. <p>If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition:</p> <ul style="list-style-type: none"> - passes the tests and inspection criteria of IEC 60950-1, 2.10.8 with an electric strength test of 1.5 kV multiplied by 1.6 (the electric strength test of 2.10.7 shall be performed using 1.5 kV), and - is subject to routing testing for electric strength during manufacturing, using a test voltage of 1.5 kV. <p>It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2.</p> <p>A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2.5 kV defined in EN 		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	60950-1, subclause 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in IEC 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in IEC 60384-14, in the sequence of tests as described in IEC 60384-14.		
6.1.2.2	The exclusions are applicable for permanently connected equipment and pluggable equipment type B and equipment intended to be used in a restricted access location where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected protective earthing conductor and is provided with instructions for the installation of that conductor by a service person.		N/A
7.1	Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term telecommunication network in 6.1.2 being replaced by the term cable distribution system.		N/A

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

Germany - Differences to IEC 60950-1:2001, First Edition			
1.7.12	<p>(Gesetz uber technische Arbeitsmittel (Geratesicherheitsgesetz) [Law of technical labour equipment {Equipment safety law}], of 23rd October 1992, Article 3, 3rd paragraph, 2nd sentence, together with the "Allgemeine Verwaltungsvorschrift zur Durchfuehrung des Zweiten Abschnitts des Geratesicherheitsgesetzes" [General administrative regulation on the execution of the Second Section of the Equipment safety law], of 10th January 1996, article 2, the paragraph, item 2).</p> <p>Directions for use with rules to prevent certain hazards for (among others) maintenance of the technical labour equipment, also for imported technical labour equipment shall be written in the German language.</p> <p>NOTE: Of this requirement, rules for use even only by service personnel are not exempted.</p>	No safety instructions are included nor are safety markings are required on the product.	N/A
1.7.15	<p>(Regulation on protection against hazards by X-ray, of 8th January 1987, Article 5 [operation of X-ray emission source], clauses 1 to 4)</p> <p>a) A licence is required by those who operate an X-ray emission source.</p> <p>b) A licence in accordance with Cl. 1 is not required by those who operate an X-ray emission source on which the electron acceleration voltage does not exceed 20 kV if</p> <ol style="list-style-type: none"> 1) the local dose rate at a distance of 0,1 m from the surface does not exceed 1 µSv/h and 2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> i) X-rays are generated ii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer. <p>c) A licence in accordance with Cl. 1 is also not required by persons who operate an X-ray emission source on which the electron acceleration voltage exceeds 20 kV if</p> <ol style="list-style-type: none"> 1) the X-ray emission source has been granted a type approval and 2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> i) X-rays are generated ii) the device stipulated by the manufacturer or importer guarantees that the maximum 		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>permissible local dose rate in accordance with the type approval is not exceeded and</p> <p>iii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer.</p> <p>d) Furthermore, a licence in accordance with Cl. 1 is also not required by persons who operate X-ray emission sources on which the electron acceleration voltage does not exceed 30 kV if</p> <p>1) the X-rays are generated only by intrinsically safe CRTs complying with Enclosure III, No. 6,</p> <p>2) the values stipulated in accordance with Enclosure III, No. 6.2 are limited by technical measures and specified in the device and</p> <p>3) it is adequately indicated on the X-ray emission source that the X-rays generated are adequately screened by the intrinsically safe CRT.</p>		

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

Group - Differences to IEC 60950-1:2001, First Edition												
2.7.1	<p>Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in primary circuits, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.</p>		N/A									
2.7.2	Void		N/A									
2.10.2	Replace the first line "(see also 1.4.7)" by "(see also 1.4.8)".		N/A									
3.2.3	Delete NOTE 1, and in table 3A delete the conduit sizes in parentheses.		N/A									
3.2.5	<p>Replace: "60245 IEC 53" by "H05 RR-F" "60227 IEC 52" by "H03 VV-F or H03 VVH2-F" "60227 IEC 53" by "H05 VV-F or H05 VVH2-F"</p> <p>In table 3B, replace the first four lines by the following:</p> <table> <tr> <td>Up to and including 6</td> <td>0.75¹</td> <td></td> </tr> <tr> <td>Over 6 up to and including 10</td> <td>0.75²</td> <td>1.0</td> </tr> <tr> <td>Over 10 up to and including 16</td> <td>1.0³</td> <td>1.5</td> </tr> </table> <p>In the Conditions applicable to table 3B. delete the</p>	Up to and including 6	0.75 ¹		Over 6 up to and including 10	0.75 ²	1.0	Over 10 up to and including 16	1.0 ³	1.5		N/A
Up to and including 6	0.75 ¹											
Over 6 up to and including 10	0.75 ²	1.0										
Over 10 up to and including 16	1.0 ³	1.5										

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	words "in some countries" in condition 1. In Note 1, delete the second sentence.		
3.3.4	In table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: "Over 10 up to and including 16 1.5 to 2.5 1.5 to by 4" Delete the fifth line: conductor sizes for 13 to 16A.		N/A
4.3.13.6	Add the following note: NOTE - Attention is drawn to 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz. Standards taking into account this recommendation are currently under development.		N/A
General	Delete all the "country" notes in the reference document according to the following list: 1.5.1 Note 2 1.5.8 Note 2 1.6.1 Note 1.7.2 Note 4 1.7.12 Note 2 2.1 Note 2.2.3 Note 2.2.4 Note 2.3.2 Note 2, 7, 8 2.3.3 Note 1, 2 2.3.4 Note 2,3 2.7.1 Note 2.10.3.1 Note 4 3.2.1.1 Note 3.2.3 Note 1, 2 3.2.5.1 Note 2 4.3.6 Note 1,2 4.7.2.2 Note 4.7.3.1 Note 2 6.1.2.1 Note 6.1.2.2 Note 6.2.2 Note 6.2.2.1 Note 2 6.2.2.2 Note 7 Note 4 7.1 Note G2.1 Note 1, 2 H Note 2		N/A
H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the operator access area, the dose rate shall not exceed 1 μ Sv/h (0,1 mR/h) (see note). Account is taken of the background level. Replace the notes as follows: NOTE - These values appear in Directive 96/29/Euratom. Delete Note 2.		N/A
P	Replace the text of this annex by: See annex ZA		N/A
Q	Replace the title of IEC 61032 by "Protection of persons and equipment by enclosures - Probes for verification". Add the following notes for the standards indicated: IEC 60127 NOTE Harmonized as EN 60127		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	(Series) (not modified) IEC 60269-2-1 NOTE Harmonized as HD 630.2.1 S4:2000 (modified) IEC 60529 NOTE Harmonized as EN 60529:1991 (not modified) IEC 61032 NOTE Harmonized as EN 61032:1998 (not modified) IEC 61140 NOTE Harmonized as EN 61140:2001 (not modified) ITU-T Recommendation K.31 NOTE in Europe, the suggested document is EN 50083-1.		
Korea - Differences to IEC 60950-1:2001, First Edition			
1.5.101	Addition: Plugs for the connection of the apparatus to the supply mains comply with the Korean requirement (KSC 8305).		N/A
7	Addition: EMC - The apparatus shall complies with the relevant CISPR standards.		N/A

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

Norway - Differences to IEC 60950-1:2001, First Edition			
1.5.8	Due to the IT power system used (see annex V, figure V.7), capacitors are required to be rated for the applicable phase-to-phase voltage (230 V).		N/A
1.7.2	Class I Pluggable Equipment Type A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text shall be: "Apparatet må tilkoples jordet stikkontakt"		N/A
2.2.4	Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N/A
2.3.2	Requirements according to this annex, 6.1.2.1 apply.		N/A
2.3.3	Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N/A
2.3.4	Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N/A
2.10.3.1	Due to the IT power distribution system used (see annex V, figure V.7), the A.C. mains supply voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault.		N/A
6.1.2.1	Add the following text between the first and second paragraph: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0.4 mm, which shall pass the electric strength test below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>the compliance clause below and in addition:</p> <ul style="list-style-type: none"> - passes the tests and inspection criteria of IEC 60950-1, 2.10.8 with an electric strength test of 1.5 kV multiplied by 1.6 (the electric strength test of 2.10.7 shall be performed using 1.5 kV), and - is subject to routing testing for electric strength during manufacturing, using a test voltage of 1.5 kV. <p>It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2.</p> <p>A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1, subclause 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in IEC 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in IEC 60384-14, in the sequence of tests as described in IEC 60384-14. 		
6.1.2.2	The exclusions are applicable for permanently connected equipment and pluggable equipment type B and equipment intended to be used in a restricted access location where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected protective earthing conductor and is provided with instructions for the installation of that conductor by a service person.		N/A
7.1	Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term telecommunication network in 6.1.2 being replaced by the term cable distribution system.		N/A
G.2.1	Due to the IT power distribution system used (see annex V, figure V.7), the A.C. mains supply voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault.		N/A

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

Sweden - Differences to IEC 60950-1:2001, First Edition			
1.5.1	(Ordinance (1990:944)) Add NOTE: Switches containing mercury such as thermostats, relays and level controllers are not allowed.		N/A
1.7.2	Class I Pluggable Equipment Type A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text shall be: "Apparaten skall anslutas till jordat uttag"		N/A
6.1.2.1	Add the following text between the first and second paragraph: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0.4 mm, which shall pass the electric strength test below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition: - passes the tests and inspection criteria of IEC 60950-1, 2.10.8 with an electric strength test of 1.5 kV multiplied by 1.6 (the electric strength test of 2.10.7 shall be performed using 1.5 kV), and - is subject to routing testing for electric strength during manufacturing, using a test voltage of 1.5 kV. It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2. A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1, subclause 6.2.2.1;</p> <ul style="list-style-type: none"> - the additional testing shall be performed on all the test specimens as described in IEC 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in IEC 60384-14, in the sequence of tests as described in IEC 60384-14. 		
6.1.2.2	The exclusions are applicable for permanently connected equipment and pluggable equipment type B and equipment intended to be used in a restricted access location where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected protective earthing conductor and is provided with instructions for the installation of that conductor by a service person.		N/A
7.1	Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term telecommunication network in 6.1.2 being replaced by the term cable distribution system.		N/A

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

Switzerland - Differences to IEC 60950-1:2001, First Edition			
1.5.1	Add NOTE: Switches containing mercury such as thermostats, relays and level controllers are not allowed.		N/A
1.7.15	Annex 4.10 of SR 814.013 (Ordinance on environmentally hazardous substances) applies for batteries.		N/A
3.2.1.1	<p>Supply cords of equipment having a rated current not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <p>SEV 6532-2.1991, Plug type 15, 3P+N+PE 250/400 V, 10 A</p> <p>SEV 6533-2.1991, Plug type 11, L+N 250 V, 10 A</p> <p>SEV 6534-2.1991, Plug type 12, L+N+PE 250 V, 10 A</p> <p>In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:</p> <p>SEV 5932-2.1998, Plug type 25, 3P+N+PE 230/400 V, 16 A</p> <p>SEV 5933-2.1998, Plug type 21, L+N 250 V, 16 A</p> <p>SEV 5934-2.1998, Plug type 23, L+N+PE 250 V, 16 A</p>		N/A

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

USA / Canada - Differences to IEC 60950-1:2001, First 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.		N/A
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.		N/A
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	Screw shell of Edison-base lampholder tied to the neutral conductor.		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	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 routine testing.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
2.3.2	In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.		N/A
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 neither a) or b) are 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.		Pass
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
2.10.5.4	Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.4 and Annex U.	Wire is UL R/C OBJS2. See Annex U for further details.	Pass
3.1.1	Permissible combinations of internal wiring/external		Pass

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	cable sizes for overcurrent and short circuit protection.		
3.1.1	All interconnecting cables protected against overcurrent and short circuit.		N/A
3.2	Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.		N/A
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.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	Part 1.		
3.2.3	Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm ²) and not less than 152 mm in length for connection of field installed wiring.		N/A
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.	Neutral terminal marked with a large letter "N".	Pass
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		Pass

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	washer or equivalent retention.		
3.3.4	Terminals accept wire sizes (gauge) used in the U.S. and Canada.		Pass
3.3.4	Terminals accept current-carrying conductors rated 125% of the equipment current rating.		Pass
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.		Pass
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
4.3.2	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.		N/A
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30(Table NAE.6).		N/A
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

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
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.		N/A
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
5.3.6	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.		N/A
5.3.6	Tests interrupted by opening of a component repeated two additional times.		Pass
5.3.8.1	Test interrupted by opening of wire or trace subject to certain conditions.		N/A
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
6.2.1	Special requirements for enameled wiring used as electrical separation provided between parts		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	connected to telecommunication network and telecommunication circuitry intentionally isolated from network.		
6.2.1	Digital line termination equipment (e.g., NCTE) subject to separation requirements.		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
6.5	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
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

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

United Kingdom - Differences to IEC 60950-1:2001, First Edition			
2.6.3.3	The current rating of the circuit shall be taken as 13 A, not 16 A.		N/A
2.7.1	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, protective device shall be included as integral parts of the direct plug-in equipment.		N/A
3.2.1.1	Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a "standard plug" in accordance with Statutory Instrument 1786: 1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE: "Standard plug" is defined in SI 1786: 1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		N/A
3.2.5.1	A power supply cord with conductor of 1.25 mm ² is allowed for equipment with a rated current over 10A and up to and including 13A.		N/A
3.3.4	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current of over 10 A up to and including 13 A is 1.25 mm ² to 1.5 mm ² nominal cross-sectional area.		N/A
4.3.6	The torque test is performed using a socket outlet complying with BS 1363 and the plug part of Direct Plug-In Equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C.		N/A

Enclosure**Miscellaneous**

Supplement Id	Description
7-01	Specification
7-02	GT-9100P Series Label
7-06	Fuse Curve (Conquer)
7-07	Fuse Curve (Walker)
7-08	Fimko Optocoupler List

Misc ID 7-01

PROPRIETARY INFORMATION:		REVISION			
PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.		REV	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE, RFS 4962, DMR	11/16/04	DMR
		B	CORRECT ENCLOSURE, RFS. 5659, DMR	03/03/05	DMR
		C	UPDATE OUTPUT VOLTAGE, RFS. 7696, JB	01/04/06	DMR

PRELIMINARY

1. NOTES:
DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

2. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: 90 VAC TO 264 VAC
 INPUT CURRENT: 2.0A MAX RMS AT 90 VAC INPUT, FULL LOAD
 INPUT FREQUENCY: 47 HZ - 63 HZ
 OUTPUT VOLTAGE / CURRENT: MODEL: OUTPUT RATING:


*GT(M)9100P7005	+5.0 V DC @ 0 - 14.0 A
*GT(M)9100P10009-X.X	+9.0 V DC @ 0 - 11.0 A
GT(M)9100P10012-X.X	+12.0 V DC @ 0 - 8.3 A
GT(M)9100P10015-X.X	+15.0 V DC @ 0 - 6.67 A
GT(M)9100P10018-X.X	+18.0 V DC @ 0 - 5.5 A
GT(M)9100P12019-X.X	+19.0 V DC @ 0 - 6.32 A
GT(M)9100P12020-X.X	+20.0 V DC @ 0 - 6.0 A
GT(M)9100P12022-X.X	+22.0 V DC @ 0 - 5.45 A
GT(M)9100P12024-X.X	+24.0 V DC @ 0 - 5.0 A
GT(M)9100P12036-X.X	+36.0 V DC @ 0 - 3.33 A
GT(M)9100P12048-X.X	+48.0 V DC @ 0 - 2.5 A

* NOT YET AVAILABLE

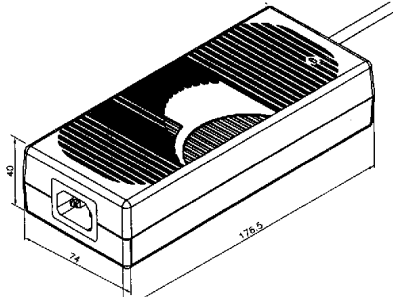
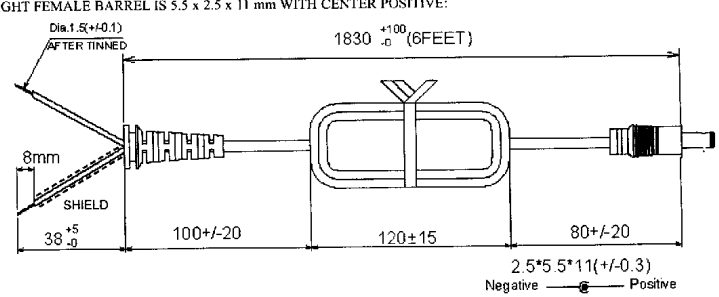
NOTES:

- EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
- SINGLE OUTPUT UNITS ARE AVAILABLE FROM 12V UP TO 48V IN 0.1V INCREMENTS.
- X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD OUTPUT VOLTAGE.

OUTPUT CURRENT : SEE SPECIFIC MODEL
 OUTPUT POWER (RATED): 120 WATTS MAX, MODEL DEPENDENT
 OUTPUT RIPPLE (PEAK TO PEAK): 1% TYPICAL
 OUTPUT REGULATION (LINE/LOAD): ± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
 LINE REGULATION: ± 0.5 % MAX AT FULL LOAD
 TURN ON/ TURN OFF OVERSHOOT: 4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD
 TURN-ON DELAY: 1 SEC MAX
 HOLD-UP TIME: 8.3 mSEC MIN AT NOMINAL INPUT AND FULL LOAD
 OUTPUT RISE TIME: < 35 mS
 TURN ON TIME: < 3 S @ 115 V
 INRUSH CURRENT: 20 A MAX AT COLD START FOR N.A. (40A FOR EURO)
 EFFICIENCY: 80 % @115 V
 SWITCHING FREQUENCY: 100 KHZ TYPICAL
 OVER-VOLTAGE PROTECTION: VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE
 OVER-CURRENT / SHORT CIRCUIT: HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO
 OTHER PROTECTION: INPUT FUSING
 POWER FACTOR: TBA
 NO LOAD POWER CONSUMPTION: < 1.0 W @ 115/230V, NO LOAD, 25°C
 SAFETY APPROVALS (PENDING):
 ITE MEDICAL: UL60950-1/3 EDITION, CUL TO 22.2# 950, DEMKO TO EN60950-1, CB REPORT ,CE CLASS I
 MEDICAL: UL60601-1, CUL TO CSA 22.2# 601, DEMKO TO EN60601-1, CB REPORT ,CE
 DIELECTRIC WITHSTAND VOLTAGE (ITE): 4242 VDC PRIMARY-SECONDARY; 2121 VDC PRIMARY- GROUND
 DIELECTRIC WITHSTAND VOLTAGE (MEDICAL): 5656 VDC PRIMARY-SECONDARY
 LEAKAGE CURRENT: ≤ 250 µA
 LINE SURGE: EN 61000-4-5 LEVEL 4
 FMI: COMPLIES WITH EN55022 , EN55011, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE

Foot Note: Globtek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instructions.	DASH NO.	PART NO	REV.	DESCRIPTION	NOTES
TABULATION BLOCK					
Limitation of Use: Globtek products are not authorized for use as mission critical components in life support, hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of Globtek Inc.	INIT.BY: DMR	DATE: 11/16/04	TOLERANCES: DECIMALS: .01 ANGULAR: 1/2° MILLIMETERS: .013 ANGULAR: 1/2°	 186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201.784.0111 www.globtek.com	
	DRAWN: NF	DATE: 11/16/04	FSCN No.: G.Y SIZE: A		
Contents of this document are subject to change without prior notice	APRVD : DMR	DATE: 11/16/04	SCALE: NONE	PART NO: N/A	SHEET 1 OF 3

Misc ID 7-01

PROPRIETARY INFORMATION: PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.									
CE MARK: MTBF: OPERATING TEMPERATURE: STORAGE TEMPERATURE: ALTITUDE: HUMIDITY: WEIGHT:	TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4, EN60601-1-2: 2001. UNIT IS ELIGIBLE FOR CE MARK. GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE. 0°C TO 40° C -40°C TO 80° C 10,000' (OPERATING), 40,000' (NON-OPERATING) 0% TO 90% RELATIVE HUMIDITY 350 g								
3. ENCLOSURE UPPER HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK LOWER HOUSING: HIGH IMPACT PLASTIC 94V0 POLYCARBONATE, NON- VENTED, COLOR BLACK SIZE: 176.5 x 74.0 x 40.0 ± 1 mm									
									
4. INDICATOR: GREEN LED, OUTPUT PRESENT 5. INPUT CONNECTOR: CONFIGURATION: CLASS 1 MODEL IEC320 / C14, AC POWER RECEPTACLE WITH 3 MALE PRONGS 6. OUTPUT CORD: 1 CONDUCTOR+SHIELD, 18 AWG STRANDED WIRE, ROUND # 1185 CORD TYPE. COLOR BLACK. LENGTH OF CORD: 1830 +100, -0 mm. CORD IS MEASURED FROM THE HOUSING TO THE END OF OVERMOLD OF THE CONNECTOR. CABLE IS TO BE MARKED WITH WIRE GAUGE, AND ALL APPLICABLE RATING AND SAFETY APPROVALS. CUSTOM CORDSET AVAILABLE.									
7. OUTPUT CONNECTOR: STANDARD, STRAIGHT FEMALE BARREL IS 5.5 x 2.5 x 11 mm WITH CENTER POSITIVE:									
									
NOTE: FOR OUTPUT PLUG/CORD OPTIONS SEE OUTPUT PLUG / CORD OPTIONS, CATALOG ACCESSORIES.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 www.globtek.com Tel. 201-784-1000 Fax 201.784.0111 </td> </tr> <tr> <td colspan="2" style="text-align: center;"> DWG TITLE: SWITCHING POWER SUPPLY, 100-120 WATT, SINGLE OUTPUT, FAMILY DESKTOP, UNIVERSAL INPUT, ITE </td> </tr> <tr> <td style="width: 70%;"> MODEL NO: GT(M)9100PYZZ-X.X. </td> <td style="width: 30%;"> REV. C </td> </tr> <tr> <td> PART NO: N/A </td> <td> SHEET 2 OF 3 </td> </tr> </table>	GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 www.globtek.com Tel. 201-784-1000 Fax 201.784.0111		DWG TITLE: SWITCHING POWER SUPPLY, 100-120 WATT, SINGLE OUTPUT, FAMILY DESKTOP, UNIVERSAL INPUT, ITE		MODEL NO: GT(M)9100PYZZ-X.X.	REV. C	PART NO: N/A	SHEET 2 OF 3
GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 www.globtek.com Tel. 201-784-1000 Fax 201.784.0111									
DWG TITLE: SWITCHING POWER SUPPLY, 100-120 WATT, SINGLE OUTPUT, FAMILY DESKTOP, UNIVERSAL INPUT, ITE									
MODEL NO: GT(M)9100PYZZ-X.X.	REV. C								
PART NO: N/A	SHEET 2 OF 3								

Misc ID 7-01

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8. LABEL:
 MATERIAL: .007 (0.18) THICK FLAT THERMAL TRANSFER, IMPRINTABLE, BLACK POLYESTER SHEET WITH WHITE NOMENCLATURE.
 MANUFACTURER: STEVEN LABEL, MATERIAL I.D. NO.3302-33, UL FILE NO. MH12821(N), UL MATERIAL DESIGNATION FILE NO. GHW332RL. OPTIONAL LABEL MATERIAL CAN BE SUBSTITUTED PROVIDING MATERIAL IS UL LISTED AND COMPLIES WITH APPLICABLE SAFETY REQUIREMENTS.

9. INDIVIDUAL PACKING BOX:
 MATERIAL: CORRUGATED FIBERBOARD, F-FLUTE 0.8 (2.0) THICK, DOUBLE WALL CONSTRUCTION.
 EXTERNAL FINISH: WHITE, COATED WITH GLOSS FINISH (AQUEOUS OR VARNISH) STYLE: TUCK SIDES. NO PRINTING ON THE OUTSIDE OF BOX.

MASTER CARTON:

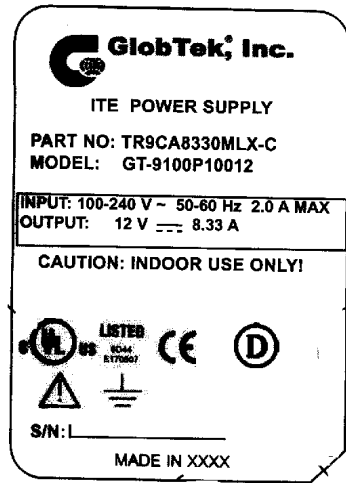
INDIVIDUAL BOX:

X = 215 mm
 Y = 80 mm
 Z = 90 mm

BUBBLE WRAP:

GlobTek, Inc.		186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201-784-0111
www.globtek.com		
DWG TITLE: SWITCHING POWER SUPPLY, 100-120 WATT, SINGLE OUTPUT, FAMILY DESKTOP, UNIVERSAL INPUT, ITE		
MODEL NO: GT(M)9100PYZZ-X.X.		REV. C
PART NO: N/A		SHEET 3 OF 3

Misc ID 7-02

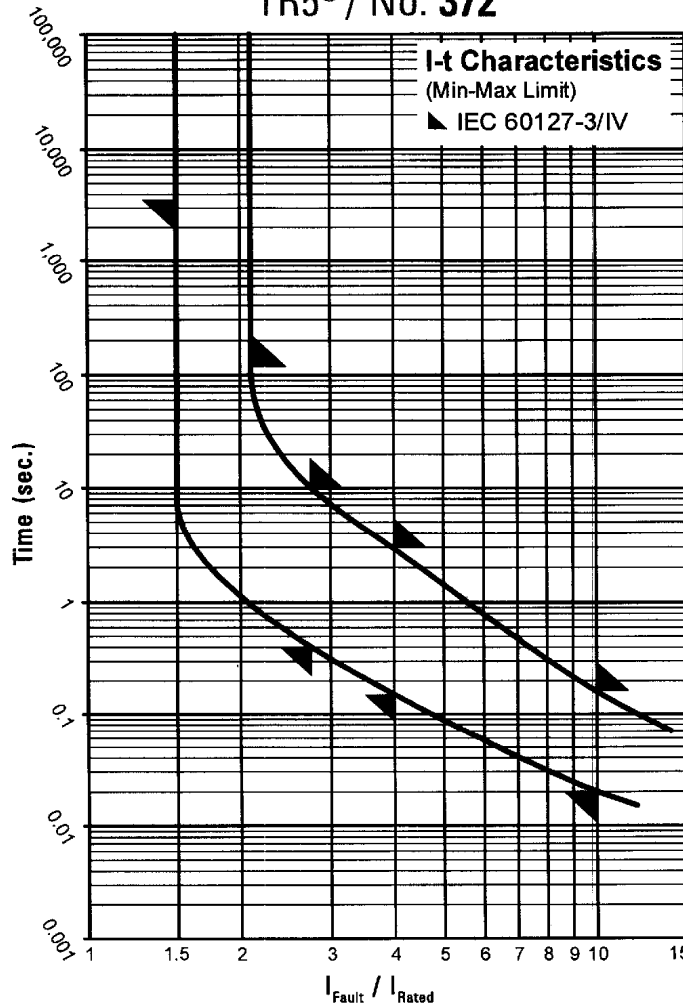


Misc ID 7-06

SUBMINIATURE FUSES



TR5® / No. 372



Contact Littelfuse for individual I-t curves

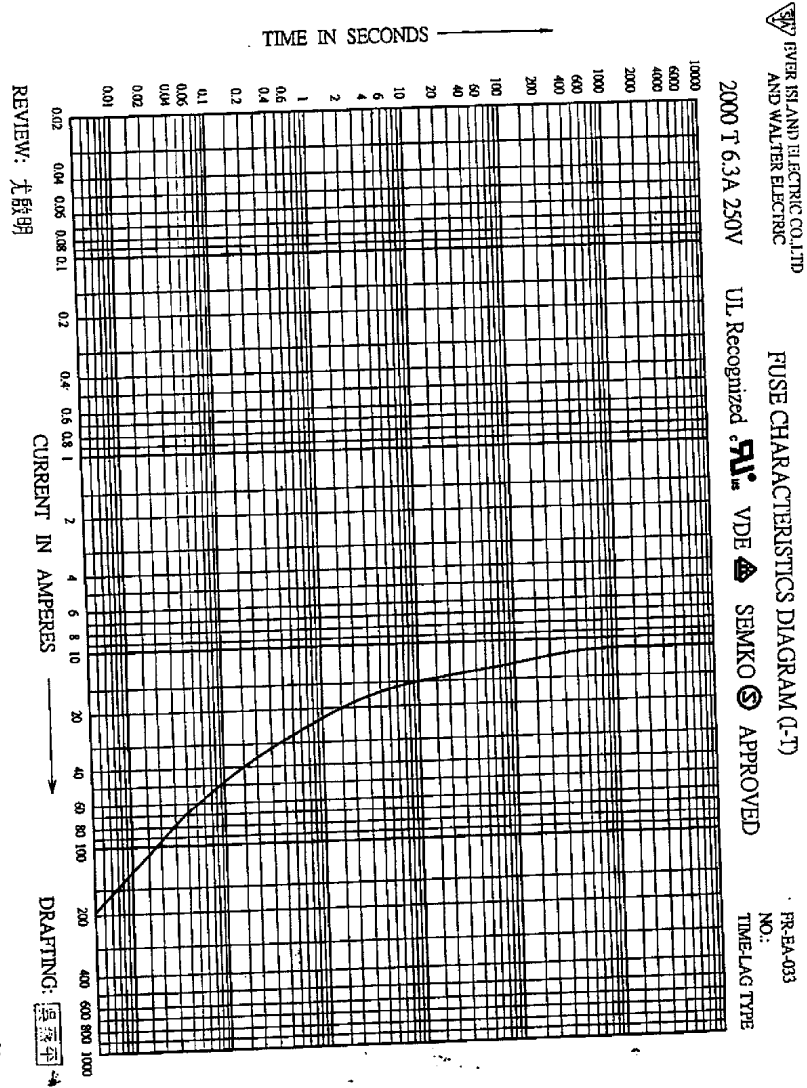
052705



In our continuing strategy to deliver unparalleled circuit protection solutions, technical expertise and application leadership, we proudly introduce the WICKMANN Group and its products to the Littelfuse portfolio.

WebSite www.littelfuse.com

Misc ID 7-07



Misc ID 7-08

September 26, 2000

TESTED OPTOCOUPPLERS AND SOLID STATE RELAYS ACCORDING TO PUBLICATION IEC 60950/EN 60950

SGS Fimko Ltd.

Please note: This is not a list of certified components. The list is relating only to the construction of component. Explanations of the abbreviations used in the list: R = Reinforced insulation; S = Supplementary insulation; B = Basic insulation; *) = There is not any internal creepage distance. Test according to clause 2.9.5 has been carried out ten times for the components at 100 °C/25 °C/25 °C. Humidity treatment of 48 h as well as electric strength tests at 3000 V/1 minute and 5000 V/1 minute were carried out to the component after thermal cycling test; #) = Enclosure of the component withstands electric strength test of 1500 V/1 minute and it fulfills the requirement of basic insulation.

Manufacturer	Type	Creepage distance		Distance through insulating mm	R	S	B	Note	Year
		Internal mm	External mm						
Aromat Corp.	AQV210EHA	5.9	7.6	0.67	X	X	X		1994
AT & T (WE)	LH 1500	>4	6	>0.4	X	X	X		
AT & T (WE)	LH 1505 AAC	>4	8	>0.4	X	X	X		
AT & T (WE)	LH 1512	>4	8	>0.4	X	X	X		1993
AT & T (WE)	LH 1516	>4	>5	>0.4	X	X	X		
AT & T (WE)	LH 1520	>4	>5	>0.4	X	X	X		
AT & T (WE)	LH 1522	>4	>5	>0.4	X	X	X		1993
AT & T (WE)	LH1536AAB	6.0	6.5	>0.4	X	X	X		1994
Bedford Opto Technology	OPI 110 A	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 110 B	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 110 C	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 110 D	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 1284 A	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 1284 B	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 1284 C	>8	>10	>2	X	X	X		1992
Bedford Opto Technology	OPI 1284 D	>8	>10	>2	X	X	X		1992
Cosmo Electronics Corporation	KA 814	5.3	8.0	0.9	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 815	5.3	8.0	0.8	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 817	5.3	8.0	0.5	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 824	5.3	8.0	0.7	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 825	5.3	8.0	0.5	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 827	5.3	8.0	0.9	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 844	5.3	8.0	0.6	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 845	5.3	8.0	0.6	X	X	X	#)	1999
Cosmo Electronics Corporation	KA 847	5.3	8.0	1.0	X	X	X	#)	1999
Cosmo Electronics Corporation	KAQV210	5.5	≥ 8.0	0.7	X	X	X	#) Photo MOS relay	1999
Cosmo Electronics Corporation	KAQV210A	5.5	≥ 8.0	0.7	X	X	X	#) Photo MOS relay	1999
Cosmo Electronics Corporation	KAQV210S	6.0	≥ 8.0	0.8	X	X	X	#) Photo MOS relay	1999
Cosmo Electronics Corporation	KAQV214	5.5	≥ 8.0	0.7	X	X	X	#) Photo MOS relay	1999
Cosmo Electronics Corporation	KAQV214A	5.5	≥ 8.0	0.7	X	X	X	#) Photo MOS relay	1999

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TESTED OPTOCOUPPLERS AND SOLID STATE RELAYS ACCORDING TO PUBLICATION IEC 60950/EN 60950

SGS Fimko Ltd.

Manufacturer	Type	Creepage distance		Distance through insulation rmm	R	S	B	I>Note	Year
		Internal rmm	External rmm						
Lite-On Electronics, Inc.	H11A1.	4.9	7.8	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	H11A2.	4.9	7.8	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	H11A3.	4.9	7.8	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	H11A4.	4.9	7.8	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	H11A5.	4.9	7.9	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	LTV-715F.	5.9	7.3	0.5	X	X	X	** in model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	LTV-724F.	6.1	7.3	0.4	X	X	X	** in model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	LTV-725F.	5.0	7.9	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	LTV-725V.	5.0	7.9	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	LTV-733.....	4.5	7.5	0.65	X	X	X	#** can be blank, M, S, S-TA or S-TA1	1998
Lite-On Electronics, Inc.	LTV-733H....	4.5	7.5	0.54	X	X	X	#** can be blank, M, S, S-TA or S-TA1	1998
Lite-On Electronics, Inc.	LTV-816.	4.6	7.4	0.6	X	X	X	** In model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	LTV-826.	4.6	7.4	0.6	X	X	X	** In model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	LTV-848.	4.6	7.4	0.6	X	X	X	** In model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	817 (= LTV817.....)	5.2	7.6	0.8	X	X	X	#** indicates the type of the packaging. "...**" can be blank, M, 1999	1999
Lite-On Electronics, Inc.	LTV827.....	5.2	7.6	0.8	X	X	X	#** indicates the type of the packaging. "...**" can be blank, M, 1999	1999
Lite-On Electronics, Inc.	LTV-851.	5.0	7.7	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	LTV-852.	6.1	7.3	0.5	X	X	X	** in model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	LTV-8D52.	6.1	7.3	0.5	X	X	X	** in model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	LTV-8Q52.	6.1	7.3	0.5	X	X	X	** in model numbering can be blank, M or S, and denotes different	1998
Lite-On Electronics, Inc.	MOC3020.	5.0	7.7	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	MOC3021.	5.0	7.7	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	MOC3022.	5.0	7.7	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	MOC3023.	5.0	7.7	0.7	X	X	X	#** can be M, S or blank	1999
Lite-On Electronics, Inc.	MOC3031.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3032.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3033.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3041.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3042.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3043.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3051.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3052.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3061.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000
Lite-On Electronics, Inc.	MOC3062.	4.4	7.7	0.7	X	X	X	#** can be M, S or blank	2000

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TESTED OPTOCOUPPLERS AND SOLID STATE RELAYS ACCORDING TO PUBLICATION IEC 60950/EN 60950

SGS Fimko Ltd.

Manufacturer	Type	Creepage distance		Distance through Insulation	R	S	B	Note	Year
		Internal	External						
Sharp	PC358NT	4.4	5.0	0.4	X	X	X		
Sharp	PC452	3.5	4.5	0.4	-	X	X	(#)	1986
Sharp	PC510	> 8	12.5	> 8	X	X	X		
Sharp	PC511	> 8	> 8	> 8	X	X	X		
Sharp	PC-512	> 4	> 5	> 0.4	X	X	X		1982
Sharp	PC-702 V	5.9	8	0.7	X	X	X		1983
Sharp	PC-713	6	7.6	0.4	X	X	X		
Sharp	PC-714	6	7.8	0.4	X	X	X		
Sharp	PC-714 U	6	7.6	0.4	X	X	X		
Sharp	PC-725 V	> 4	7.3	> 0.4	X	X	X		1982
Sharp	PC-733H	> 4	> 8	> 0.4	X	X	X		1982
Sharp	PC-814	4.4	7.7	0.5	X	X	X		1983
Sharp	PC-815	4.4	7.7	0.5	X	X	X		1983
Sharp	PC-816	> 4	8	> 0.4	X	X	X		
Sharp	PC-817	4.8	8	> 0.4	X	X	X		
Sharp	PC-817 U	4.8	8	> 0.4	X	X	X		
Sharp	PC-818	4.8	8	> 0.4	X	X	X		
Sharp	PC-818 U	4.8	8	> 0.4	X	X	X		
Sharp	PC-829	6.1	> 9	0.7	X	X	X	(#)	1984
Sharp	PC852	5.0	8.0	0.7	X	X	X	(#)	1986
Sharp	PC-900	> 4	> 8	> 0.4	X	X	X		1982
Sharp	PC-905	> 4	8	> 0.4	X	X	X		
Sharp	PC905	> 4	> 8	> 0.8	X	X	X		1989
Sharp	S11 MD3	> 4	> 8	> 0.4	X	X	X		
Sharp	S11 MD 5V	> 4	> 8	> 0.4	X	X	X		
Sharp	S11 ME 5	> 4	> 8	1.1	X	X	X		1982
Sharp	S11 ME 6	> 4	> 8	1.1	X	X	X		1982
Sharp	S21 MD 3	> 4	7.6	> 0.4	X	X	X		
Sharp	S21 MD 3V	5.7	7.6	0.7	X	X	X		
Sharp	S21 MD 4	> 4	7.6	> 0.4	X	X	X		
Sharp	S21 MD 4T	> 4	7.6	> 0.4	X	X	X		
Sharp	S21 MD 4V	> 4	7.6	> 0.4	X	X	X		
Sharp	S21 ME 3	> 4	> 8	> 0.4	X	X	X		1986
Sharp	S21 ME 4	> 4	> 8	> 0.4	X	X	X		1986
Sharp	S21 ME 5	6.4	8.1	1.1	X	X	X		1992

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September 26, 2000

TESTED OPTOCOUPPLERS AND SOLID STATE RELAYS ACCORDING TO PUBLICATION IEC 60950/EN 60950

SGS Fimko Ltd.

Manufacturer	Type	Creepage distance		Distance through insulation mm	R	S	B	Note	Year
		Internal mm	External mm						
Vishay Semiconductor GmbH	TCDT1122	4.05	9.2	0.79	X	X	X	#	1999
Vishay Semiconductor GmbH	TCDT1122G	4.05	9.2	0.79	X	X	X	#	1999
Vishay Semiconductor GmbH	TCDT1123	4.05	9.2	0.79	X	X	X	#	1999
Vishay Semiconductor GmbH	TCDT1123G	4.05	9.2	0.79	X	X	X	#	1999
Vishay Semiconductor GmbH	TCDT1124	4.05	9.2	0.79	X	X	X	#	1999
Vishay Semiconductor GmbH	TCDT1124G	4.05	7.9	0.79	X	X	X	#	1999
Vishay Semiconductor GmbH	TCED1100	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCED2100	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCED4100	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1100	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1101	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1102	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1103	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1104	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1105	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1106	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1107	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1108	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1109	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1600	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET2100	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET2600	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET4100	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET4600	4.7	8.4	0.6	X	X	X	#	1998
Vishay Semiconductor GmbH	TCET1100.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1101.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1102.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1103.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1104.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1105.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1106.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1107.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET1108.	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999
Vishay Semiconductor GmbH	TCET2100	4.2	8.1	0.7	X	X	X	# System "U." can be G or none	1999

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