



Test Report issued under the responsibility of:



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

Report Number..... : 140900038SHA-002
Date of issue..... : 2014-10-14, **Modification 1, 2015-11-24**
Total number of pages : 38

Applicant's name : GlobTek, Inc.
Address..... : 186 Veterans Dr. Northvale, NJ 07647 USA

Test specification:

Standard..... : IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure : CB Scheme
Non-standard test method : N/A

Test Report Form No. : IEC60950_1F
Test Report Form(s) Originator : SGS Fimko Ltd
Master TRF : Dated 2014-02

Copyright © 2014 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.


This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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

General disclaimer:

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description :	ITE Power Supply
Trade Mark :	
Manufacturer	Same as applicant
Model/Type reference	GT*41134***** , GT*96060***** (Refer to pages 7 and 8 for details) and GT-41134-0606-W2-TAB
Ratings	Input: 100-240V~, 50-60Hz, 0.3A or 0.6A for GT*41134***** and GT*96060***** ; 120V~, 60Hz, 0.3A for GT-41134-0606-W2-TAB Output: Refer to pages 7 and 8 for details.



Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory:	
Testing location/ address	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), 200233 Shanghai, China
<input type="checkbox"/> Associated CB Testing Laboratory:	
Testing location/ address	
Tested by (name + signature)	Albert Zhou
Approved by (name + signature)	Will Wang
<input type="checkbox"/> Testing procedure: TMP/CTF Stage 1:	
Testing location/ address	
Tested by (name + signature)	
Approved by (name + signature)	
<input type="checkbox"/> Testing procedure: WMT/CTF Stage 2:	
Testing location/ address	
Tested by (name + signature)	
Witnessed by (name + signature)	
Approved by (name + signature)	
<input type="checkbox"/> Testing procedure: SMT/CTF Stage 3 or 4:	
Testing location/ address	
Tested by (name + signature)	
Witnessed by (name + signature)	
Approved by (name + signature)	
Supervised by (name + signature)	

<p>List of Attachments (including a total number of pages in each attachment): Photos of product: page 34 to page 36, total 3 pages Appendix: Schematics: page 37, total 1 page Appendix: PCB Layout: page 38, total 1 page</p>	
<p>Summary of testing:</p>	
<p>Tests performed (name of test and test clause): 1.6.2 Input current test 2.2.2 Voltage under normal conditions test 2.2.3 Voltage under fault conditions test 2.4 Limited current circuits 2.5 Limited power source test 2.10.2 Working voltage measurement 2.10.3/2.10.4 Clearances and creepage distances 4.5.1 Temperature rise test 5.1 Touch current & protective conductor current test 5.2 Electric strength test 5.3 Abnormal operating and fault conditions test</p>	<p>Testing location: Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), 200233 Shanghai, China</p>
<p>Summary of compliance with National Differences:</p>	
<p>List of countries addressed The test report covers group- and national differences for the CENELEC countries. The national differences for Singapore and Japan have been checked according to IEC 60950-1 1st ed. The national differences for China and Australia/New Zealand have been checked according to IEC 60950-1 2nd ed. The national difference for Korea has been checked according to IEC 60950-1 2nd ed. + A1. The national differences for USA and Canada have been checked according to IEC 60950-1 2nd ed. + A1 + A2. <input checked="" type="checkbox"/> The product fulfils the requirements of IEC 60950-1:2005 + A1:2009 + A2:2013 and EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013.</p>	

Copy of marking plate (representative):

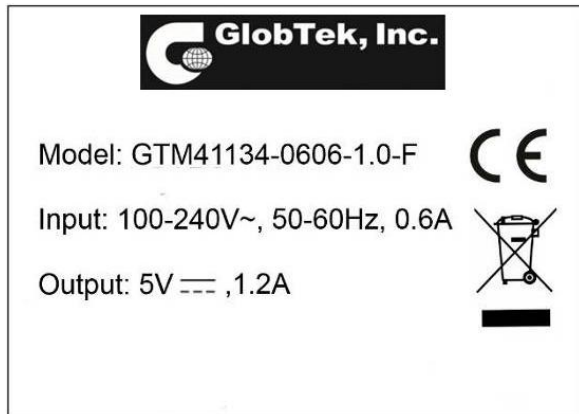
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.

Note:

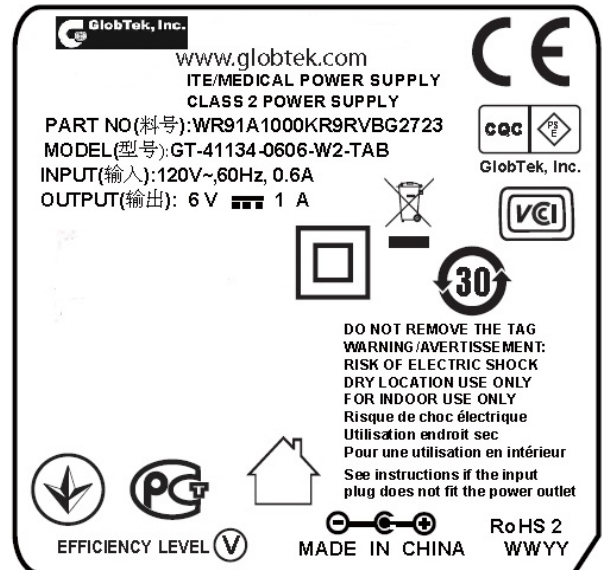
The marking plates of the other models listed in this report are identical with below except model name and output parameter. The below marking is complying with the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.



For open frame models



For North American model



Test item particulars..... :	
Equipment mobility.....:	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> direct plug-in Final determination in end product evaluation for open frame model series.
Connection to the mains.....:	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input checked="" type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains Appliance coupler for one type of open frame model series. Final determination in end product evaluation for other types of open frame model series.
Operating condition.....:	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Mains supply tolerance (%) or absolute mains supply values	+/-10%
Tested for IT power systems	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IT testing, phase-phase voltage (V)	230V or 120V
Class of equipment	<input checked="" type="checkbox"/> Class I or <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified Final determination in end product evaluation for open frame model series
Considered current rating of protective device as part of the building installation (A)	16A or 20A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IP40
Altitude during operation (m)	<5000m
Altitude of test laboratory (m)	<50m
Mass of equipment (kg)	Approx. 0.14 kg
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 of receipt of test item	2015-10-21
Date (s) of performance of tests	2015-10-21 to 2015-11-13
General remarks:	

"(See Enclosure #)" refers to additional information appended to the report.
 "(See appended table)" refers to a table appended to the report.
Throughout this report a comma / point is used as the decimal separator.
 This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Manufacturer's Declaration per sub-clause 4.2.5 of IEC60950-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable
---	--

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) :	Factory 1 GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA Factory 2 GlobTek (Suzhou) Co., Ltd Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China
--	---

General product information:

Product covered by this report is ITE power supply module. The different models are corresponding to four structure types respectively.

One is direct plug-in power adapter with interchangeable plug portion, which is Class II apparatus. It can be used with different plug types. The evaluation reports of the different plug types are also attached with this report. Two pieces of outer enclosure are enclosed with ultrasonic welding without screw.

The other one is open frame type which also provides a protective earth bonding terminal on the PCB. Interchangeable appliance inlets can be mounted on the device, which can provide earthing connection or not. The installation and use for the insulation construction shall be finally determined in the end product.

Model GT-41134-0606-W2-TAB is special direct plug-in type for North America market, with particular housing, varistor and fixed NEMA 1-15P plug.

The new added structure type only use F1 fuse in primary circuit and a LED indicator (optional) used in secondary circuit.

GT*96060*** is identify with GT*41134***** except for model name.**

GT*96060*** and GT*41134******* were evaluated for maximum manufacturer's recommended ambient of 50 °C.

GT-41134-0606-W2-TAB was evaluated for maximum manufacturer's recommended ambient of 50 °C.

IP40 for direct plug-in model series.

All the types are designed for continuous operation.

Model similarity:

GT*41134*** and GT*96060*******

The 1st “*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.

The 2nd “*” part can be “-” or “CC”, “-” = Constant Voltage Model, CC = Constant Current Model.

The 3rd “*” denotes the rated output wattage designation, which can be “01” to “06”, with interval of 1.

The 4th “*” denotes the standard rated output voltage designation, which can be “03”, “04”, “06”, “12”, “15”, “18”, “24”, “36” or “48”. These standard rated output voltage designations correspond to seven isolated transformer models (See the appended table 1.5.1 for details). Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.

The 5th “*” is optional deviation, subtracted from standard output voltage, which can be “-0.1” to “-11.9” with interval of 0.1, or blank to indicate no voltage different.

The 4th “*” and 5th “*” together denote the output voltage, with a range of 3.3 - 48 volts.

The 6th “*” = Blank means directly plug in model series,

= “-F” means Class I open frame model with connector which is fixing on the PCB,

= “-FW” means Class II open frame model with connector which is fixing on the PCB.

= “-FWT2” means open frame model with appliance inlet with Class II inlet C8 respectively,

= “-FT3A” means open frame model with appliance inlet with Class I inlet C6 respectively,


= “-FT3” means open frame model with appliance inlet with Class I inlet C14 respectively,

The last * denote any six character = 0-9 or A-Z or ([] or – or blank for marketing purposes.

Test performed on 3.3V, 5V, 9V and 48V output model as representative, and also performed on model GT-41134-0606-W2-TAB for reference. **Test performed on 3.3V, 5V and 48V output model as representative for new added structure type.**

Model list

Model	voltage	Max. current	Max. power
GT*41134**03*** GT*96060**03***	3.3V	1.8A	6W
GT*41134**04*** GT*96060**04***	3.4-4V	1.76A	6W
GT*41134**06*** GT*96060**06***	4.1-6V	1.46A	6W
GT*41134**12*** GT*96060**12***	6.1-12V	0.98A	6W
GT*41134**15*** GT*96060**15***	12.1-15V	0.50A	6W
GT*41134**18*** GT*96060**18***	15.1-18V	0.40A	6W
GT*41134**24*** GT*96060**24***	18.1-24V	0.33A	6W
GT*41134**36*** GT*96060**36***	24.1-36V	0.25A	6W
GT*41134**48***	36.1-48V	0.16A	6W

GT*96060**48***																			
GT-41134-0606-W2-TAB	6V	1A	6W																
<p>Abbreviations used in the report:</p> <table border="0"> <tr> <td>- normal conditions</td> <td>N.C.</td> <td>- single fault conditions</td> <td>S.F.C</td> </tr> <tr> <td>- functional insulation</td> <td>OP</td> <td>- basic insulation</td> <td>BI</td> </tr> <tr> <td>- double insulation</td> <td>DI</td> <td>- supplementary insulation</td> <td>SI</td> </tr> <tr> <td>- between parts of opposite polarity</td> <td>BOP</td> <td>- reinforced insulation</td> <td>RI</td> </tr> </table> <p>Indicate used abbreviations (if any) N/A</p> <p>Modification 1: The original test report ref. No. 140900038SHA-002 dated on 2014-10-14 was modified on 2015-11-24 to include the following changes and/ or additions:</p> <ol style="list-style-type: none"> 1. Add new product model series: GT*96060***** 2. Add alternative input current based on client's requirement. 3. Replace the old way of naming model series GT*41134-***-*** with a new way of naming model series GT*41134*****, update the explanation of model series. 4. Add a new structure type which used in model series GT*41134***** and GT*96060*****. 5. Add new suppliers and models of transformer for model series GT*41134***** and GT*96060*****. 6. Change the trade mark from "GlobTek" to "". <p>After review, supplementary tests on Input current test, Voltage under Normal Conditions Test, Voltage under Fault Conditions Test, Limited current circuits Test, Limited Power Sources Test, Determination of Working Voltage Test, Clearances and Creepage Distances Measurement, Temperature test, Touch current test, Electric strength test and Abnormal operating and fault conditions test were performed.</p> <p>Clauses Concerned.....: Clauses 1.6.2, 2.2.2, 2.2.3, 2.4, 2.5, 2.10.2, 2.10.3&2.10.4, 4.5.2, 5.1, 5.2 and 5.3 Table 1.5.1 Photos</p>				- normal conditions	N.C.	- single fault conditions	S.F.C	- functional insulation	OP	- basic insulation	BI	- double insulation	DI	- supplementary insulation	SI	- between parts of opposite polarity	BOP	- reinforced insulation	RI
- normal conditions	N.C.	- single fault conditions	S.F.C																
- functional insulation	OP	- basic insulation	BI																
- double insulation	DI	- supplementary insulation	SI																
- between parts of opposite polarity	BOP	- reinforced insulation	RI																

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

1.6.2	Input current	(see appended table 1.6.2)	P
-------	---------------	----------------------------	---

2.2.2	Voltages under normal conditions (V)	Between any SELV circuits 42.4V peak or 60V dc are not exceeded. (see appended table)	P
2.2.3	Voltages under fault conditions (V)	Limits of 71V peak and 120V DC were not exceed and SELV limits not for longer than 0.2 seconds. (see appended table)	P

2.4	Limited current circuits		
2.4.1	General requirements		P
2.4.2	Limit values	0.7 mA	P
	Frequency (Hz).....	Network of annex D is used.	—
	Measured current (mA)	0.048mA	—
	Measured voltage (V)	28mV	—
	Measured circuit capacitance (nF or µF).....	CY1 & CY2: 470pF	—
2.4.3	Connection of limited current circuits to other circuits	Limited current circuits are only connected to other SELV circuits.	P

2.5	Limited power sources		
	a) Inherently limited output		P
	b) Impedance limited output		N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	Regulating network	P
	Use of integrated circuit (IC) current limiters		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)	(see appended table 2.5)	—
	Current rating of overcurrent protective device (A) ..		—

2.10.2	Determination of working voltage		P
2.10.2.1	General		P
2.10.2.2	RMS working voltage		P
2.10.2.3	Peak working voltage		P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.3	Clearances		P
2.10.3.1	General		P
2.10.3.2	Mains transient voltages		P
	a) AC mains supply	100-240Vrms. Overvoltage Category II	P
	b) Earthed d.c. mains supplies		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 and 2.10.4)	P
2.10.3.4	Clearances in secondary circuits	Comply with clause 5.3.4 a)	P
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply		N/A
2.10.3.7	Transients from d.c. mains supply		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances		P
2.10.4.1	General		P
2.10.4.2	Material group and comparative tracking index		P
	CTI tests	Material group IIIb is used	—
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	P
4.3.13	Radiation		P
4.3.13.1	General	LED indicator only.	P
4.3.13.2	Ionizing radiation	The EUT does not generate ionizing radiation.	N/A
	Measured radiation (pA/kg)		—
	Measured high-voltage (kV)		—
	Measured focus voltage (kV)		—
	CRT markings		—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	The EUT does not produce UV radiation.	N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation		N/A
4.3.13.5	Lasers (including laser diodes) and LEDs		P
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		—
4.3.13.5.2	Light emitting diodes (LEDs)	Class 1	P
4.3.13.6	Other types		N/A

4.5	Thermal requirements		
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L	Rated load with continuous operation.	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		
5.1	Touch current and protective conductor current		P
5.1.1	General	(see appended Table 5.1)	P
5.1.2	Configuration of equipment under test (EUT)	Equipment designed for connection to only one power source.	P
5.1.2.1	Single connection to an a.c. mains supply		P
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit	Test circuit as in figure 5A is used.	P
5.1.4	Application of measuring instrument	Measuring instrument as in annex D.1 is used.	P
5.1.5	Test procedure		P
5.1.6	Test measurements		P
	Supply voltage (V)	See appended table 5.1	—
	Measured touch current (mA)	See appended table 5.1	—
	Max. allowed touch current (mA)	See appended table 5.1	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Measured protective conductor current (mA)	See appended table 5.1	—
	Max. allowed protective conductor current (mA)...	See appended table 5.1	—
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	Not connected to a telecommunication network or a cable distribution system.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N/A
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A
5.2	Electric strength		
5.2.1	General	(see appended table 5.2)	P
5.2.2	Test procedure		P
5.3	Abnormal operating and fault conditions		
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors	No motor.	N/A
5.3.3	Transformers	(see appended Annex C)	P
5.3.4	Functional insulation	Method a) & c). Short Circuit tests, result see appended table 5.3.	P
5.3.5	Electromechanical components	No electromechanical components.	N/A
5.3.6	Audio amplifiers in ITE	No such component.	N/A
5.3.7	Simulation of faults	(see appended table 5.3)	P
5.3.8	Unattended equipment	There are no thermostats and similar components within the EUT.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.9	Compliance criteria for abnormal operating and fault conditions	No fire propagated beyond the equipment, no molten metal was emitted and the enclosures no deformed.	P
5.3.9.1	During the tests		P
5.3.9.2	After the tests	After test, the EUT still complies with relevant requirements of this standard.	P

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

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)	
Enclosure & Blade holder	SABIC INNOVATIVE PLASTICS B V	SE1X SE1 945	Min. V-1 at 1.5 mm thickness	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329	
Alt.	SABIC INNOVATIVE PLASTICS B V	SE100	Min. V-1 at 2.0 mm thickness	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329	
Alt.	SABIC INNOVATIVE PLASTICS B V	C2950 CX7211 EXCY0098 940	Min. V-0 at 2.0 mm thickness	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329	
Alt.	TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	Min. V-0 at 2.0 mm thickness	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E50075	
Alt.	CHI MEI Corporation	PA-765A	Min. V-1 at 2.0 mm thickness	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E56070	
Alt.	CHI MEI Corporation	PC-540	Min. V-0 at 2.0 mm thickness	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E56070	
AC inlet for Class I model	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40032465 UL E302229	
Alt.	Rich Bay Co., Ltd.	R-30790 R-307	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40030381 UL E184638	
Alt.	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-02	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40034448 UL E226643	
Alt.	TECX-UNIONS Technology Corporation	TU-333 series	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40005430 UL E100004	
Alt.	Rong Feng Industrial Co., Ltd.	RF-190	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40030379 UL E102641	
Alt.	Inalways Corporation	0724	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	ENEC 2010080 UL E94191	
Alt.	Kunshan Dik Electronics Technology Co., Ltd	CDJ-2	2.5A, 250Vac Standard sheet: C6	IEC/EN 60320-1 UL 498	VDE 40022871 UL E317189	

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	VDE 40032137 UL E302229
Alt.	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	VDE 40030228 UL E184638
Alt.	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	VDE 40034447 UL E226643
Alt.	TECX-UNIONS Technology Corporation	TU-301-S TU-301-SP	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	VDE 40025582 UL E220004
Alt.	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	VDE 40028101 UL E102641
Alt.	Inalways Corporation	0711 series	10A, 250Vac Standard sheet: C14	IEC/EN 60320-1 UL 498	ENEC 2010084 UL E94191
AC inlet for Class II model	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40032028 UL E302229
Alt.	Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40030384 UL E184638
Alt.	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40034449 UL E226643
Alt.	TECX-UNIONS Technology Corporation	SO-222 series	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40020337 UL E100004
Alt.	Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40030168 UL E102641
Alt.	Inalways Corporation	0721 series	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	ENEC 2010087 UL E94191
Alt.	Kunshan Dik Electronics Technology Co., Ltd	CDJ-8	2.5A, 250Vac Standard sheet: C8	IEC/EN 60320-1 UL 498	VDE 40025531 UL E317189
Insulating tube used on appliance inlet	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR RSFR-H RSFR-HPF	600V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E203950
Alt.	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E225897

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	DONGGUAN SALIPT CO LTD	SALIPT S-901-300 SALIPT S-901-600	Min. 300V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E209436
Alt.	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E214175
Alt.	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E180908
Alt.	SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	600V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance E329530
Internal primary wiring	DONGGUAN YUE YANG WIRE & CABLE CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E230810
Alt.	YONG HAO ELECTRICAL INDUSTRY CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E240426
Alt.	HIP TAI ELECTRIC WIRE CO	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E225804
Alt.	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E237831
Alt.	SHENG YU ENTERPRISE CO LTD	1007, 1015, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E219726
Alt.	SUZHOU YEMAO ELECTRONIC CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E353532
Alt.	SUZHOU HONGMENG ELECTRONIC CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E315421
Alt.	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL E333601

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	SUZHOU QCTECH CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance E322968
Insulating sheet only for GT-41134-0606-W2-TAB	FORMEX, DIV OF IL TOOL WORKS INC, FRMRLY FASTEX, DIV OF IL TOOL WORKS INC	FORMEX GK series	V-0, min. 0.4 mm thickness, 115°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E121855
Alt.	MIANYANG LONGHUA FILM CO LTD	PP-WT-20	VTM-0, min. 0.4 mm thickness, 65°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E254551
Alt.	SKC CO LTD	SH71S	VTM-2, min. 0.4 mm thickness, 105°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E74359
Alt.	TORAY INDUSTRIES INC	Lumirror H10	VTM-2, min. 0.4 mm thickness, 105°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E86511
Alt.	SABIC INNOVATIVE PLASTICS US L L C	FR60 series FR63 series FR65 series FR7 series FR700 series	V-0, min. 0.4 mm thickness, 130°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E121562
Alt.	MIANYANG LONGHUA FILM CO LTD	PP-BK series PP-WT series	V-0, min. 0.4 mm thickness, 80°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E254551
Alt.	ITW ELECTRONICS COMPONENTS/ PRODUCTS (SHANGHAI) CO LTD	FORMEX-18 FORMEX-17	V-0, min. 0.4 mm thickness, 100°C	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested within appliance UL E256266
PCB	TECHNI TECHNOLOGY LTD	T2A T2B T4	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E154355
Alt.	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E243157
Alt.	CHEERFUL ELECTRONIC	03 03A	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E199724
Alt.	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E251754

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt.	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E251781
Alt.	SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0 04V0	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E186016
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E177671
Alt.	KUOTIANG ENT LTD	C-2 C-2A	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E227299
Alt.	PACIFIC WIN INDUSTRIAL LTD	PW-02 PW-03	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E228070
Alt.	SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL E250336
Alt.	Interchangeable	Interchangeable	Min. V-0, min 1.6 mm thickness, 130°C	IEC/EN 60950-1 UL 796	Tested with appliance UL Approved.
Fuse (F1, F2) ² (F2 is optional.)	Conquer Electronics Co., Ltd.	MST	T1A or T6.3A, 250V, Rated breaking capacity 100A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40017118 UL E82636
Alt.	Ever Island Electric Co., Ltd. and Walter Electric	2010	T1A or T6.3A, 250V, Rated breaking capacity 130A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40018781 UL E220181
Alt.	Bel Fuse Ltd.	RST	T1A or T6.3A, 250V, Rated breaking capacity 100A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40011144 UL E20624
Alt.	Cooper Bussmann LLC	SS-5	T1A or T6.3A, 250V, Rated breaking capacity 35A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40015513 UL E19180
Alt.	Das & Sons International Ltd.	385T series	T1A or T6.3A, 250V, Rated breaking capacity 35A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40008524 UL E205718

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	Shenzhen Lanson Electronics Co. Ltd.	SMT	T1A or T6.3A, 250V, Rated breaking capacity 35A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40012592 UL E221465
Alt.	Walter Electronic Co. Ltd.	ICP series	T1A or T6.3A, 250V, Rated breaking capacity 50A.	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40012824 UL E56092
Alt.	Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 series	T1A or T6.3A, 250V, Rated breaking capacity 50A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40017009 UL E213695
Alt.	Sun Electric Co.	5T	T1A or T6.3A, 250V, Rated breaking capacity 100A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40027241 UL E166522
Alt.	Bel Fuse Ltd.	5ST	T1A or T6.3A, 250V, Rated breaking capacity 35A	IEC/EN 60127-2 UL 248-1 UL 248-14	VDE 40000507 UL E20624
Y-Capacitor (CY1, CY2) (optional)	SUCCESS ELECTRONICS CO LTD	SE SB	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037221 VDE 40037211 UL E114280
Alt.	MURATA MFG CO LTD	KX	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
Alt.	WALSIN TECHNOLOGY CORP	AH	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001804 UL E146544
Alt.	JYA-NAY CO LTD	JN	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001831 UL E201384
Alt.	HAOHUA ELECTRONIC CO	CT7	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
Alt.	JERRO ELECTRONICS CORP	JX-series	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032158 UL E333001
Alt.	TDK CORP	CD	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 124321 UL E37861
Alt.	JYH CHUNG ELECTRONICS CO LTD	JD	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 137027 UL E187963

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
Alt.	WELSON INDUSTRIAL CO LTD	WD	Type Y1, max. 470pF, min. 250V, 125°C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 115455 UL E104572
Varistor (MOV1) (optional)	JOYIN CO LTD	10N471K 14N471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 005937 UL E325508
Alt.	CENTRA SCIENCE CORP	10D471K 14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40008220 UL E316325
Alt.	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10471K TVR14471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 005944 UL E314979
Alt.	SUCCESS ELECTRONICS CO LTD	SVR10D471K SVR14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40030401 UL E330256
Alt.	CERAMATE TECHNICAL CO LTD	GNR10D471K GND14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40031745 UL E315429
Alt.	BRIGHTKING (SHENZHEN) CO LTD	10D471K 14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40027827 UL E327997
Alt.	LIEN SHUN ELECTRONICS CO LTD	10D471K 14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40005858 UL E315524
Alt.	HONGZHI ENTERPRISES LTD	HEL-10D471K HEL-14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40008621 UL E324904
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO LTD	10D471K 14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40030322 UL E323753
Varistor (MOV1) (optional) (only for GT-41134-0606-W2-TAB)	Panasonic Corporation	ERZV20D241 (V20241U)	Max continuous voltage: 150VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40018677 UL E321499

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Alt.	Brightking (Shenzhen) Co., Ltd.	241KD20J	Max continuous voltage: 150VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40027827 UL E327997
Alt.	EPCOS	S20K150	Max continuous voltage: 150VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40027582 UL E321126
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR20241K	Max continuous voltage: 150VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 005944 UL E314979
Alt.	Success Electronics Co., Ltd.	SVR20D241K	Max continuous voltage: 150VAC, 6kV/3kA, 40/85/56	IEC 61051-2 UL 1449	VDE 40030401 UL E330256
Transformer (T1)	/GlobTek/ BOAM/ HAOPUWEI	XF00716I for 3.3-4.9V XF00714I for 5-8.9V XF00717 for 9-14.9V XF00718 for 15-18.9V XF00719 for 19-24V XF00814 for 24.1-36V XF00841 for 36.1-48V TF032 for 5-8.9V TF033 for 9-14.9V TF034 for 15-18.9V TF035 for 19-24V	Class B, with critical component listed below	IEC/EN 60950-1	Tested with appliance
Transformer (T1) (Only for GT-41134-0606-W2-TAB)	/GlobTek/ BOAM/ HAOPUWEI	XF00714I	Class B, with critical component listed below	IEC/EN 60950-1	Tested with appliance
-Insulation system		130-1	Class 130(B)	IEC/EN 60950-1 UL 1446	Tested with appliance UL E308897

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
-Alt.	GLOBTEK INC	GTX-130-TM	Class 130(B)	IEC/EN 60950-1 UL 1446	Tested with appliance UL E243347
-Alt.	SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01	Class 130(B)	IEC/EN 60950-1 UL 1446	Tested with appliance UL E252329
-Alt.	WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130	Class 130(B)	IEC/EN 60950-1 UL 1446	Tested with appliance UL E315275
-Magnet wire (Primary)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E201757
-Alt.	JUNG SHING WIRE CO LTD	UEW-4 UEY-2	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E174837
-Alt.	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E335065
-Alt.	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E158909
-Alt.	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E206882
-Alt.	JIANGSU DARTONG M & E CO LTD	UEW	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E237377
-Alt.	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E194410
-Alt.	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	130°C	IEC/EN 60950-1 UL 1446	Tested with appliance UL E222214
-Secondary wire of T1 (TIW)	GREAT LEFLON INDUSTRIAL CO LTD	TRW (B)	Min.130°C	IEC/EN 60950-1 UL 2353	Tested with appliance UL E211989
-Alt.	COSMOLINK CO LTD	TIW-M	Min.130°C	IEC/EN 60950-1 UL 2353	Tested with appliance UL E213764

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
-Alt.	FURUKAWA ELECTRIC CO LTD	TEX-E	Min.130°C	IEC/EN 60950-1 UL 2353	Tested with appliance UL E206440
-Alt.	TOTOKU ELECTRIC CO LTD	TIW-2	Min.130°C	IEC/EN 60950-1 UL 2353	Tested with appliance UL E166483
-Alt.	E&B TECHNOLOGY CO LTD	E&B-XXXB E&B-XXXB-1	Min.130°C	IEC/EN 60950-1 UL 2353	Tested with appliance UL E315265
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J T375HF	V-0, 150°C, min thickness: 0.6mm	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
-Alt.	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, min thickness: 0.6mm	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E41429
-Alt.	HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, min thickness: 0.6mm	IEC/EN 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E42956
-Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350T-1	130°C	IEC/EN 60950-1 UL 510	Tested with appliance UL E17385
-Alt.	BONDTEC PACIFIC CO LTD	370S	130°C	IEC/EN 60950-1 UL 510	Tested with appliance UL E175868
-Alt.	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT WF	130°C	IEC/EN 60950-1 UL 510	Tested with appliance UL E165111
-Alt.	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C	IEC/EN 60950-1 UL 510	Tested with appliance UL E246950
-Alt.	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C	IEC/EN 60950-1 UL 510	Tested with appliance UL E246820
Non-critical component list					
Output cord	Interchangeable	Interchangeable	Min. 24AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL approved
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039. For all transformers under all manufacturers. ²⁾ For GT-41134-0606-W2-TAB, the fuse rating is T6.3A and evaluated separately.					

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

For new added structure type, the fuse rating is T1A, and there is only one fuse F1 used in new structure type.

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
Tested on model: GTM96060-0603							
90Vac	0.174	0.6 / 0.3	10.2	F1	0.174	Normal operation with 3.3Vdc / 1.8A output.	
100Vac	0.161	0.6 / 0.3	10.0	F1	0.161		
240Vac	0.089	0.6 / 0.3	10.1	F1	0.089		
264Vac	0.084	0.6 / 0.3	10.1	F1	0.084		
Tested on model: GTM96060-0606-1.0							
90Vac	0.153	0.6 / 0.3	7.982	F1	0.153	Normal operation with 5.0Vdc / 1.2A output.	
100Vac	0.139	0.6 / 0.3	7.873	F1	0.139		
240Vac	0.081	0.6 / 0.3	7.988	F1	0.081		
264Vac	0.076	0.6 / 0.3	8.096	F1	0.076		
Tested on model: GTM96060-0648							
90Vac	0.149	0.6 / 0.3	8.90	F1	0.149	Normal operation with 48Vdc / 0.125A output.	
100Vac	0.137	0.6 / 0.3	8.70	F1	0.137		
240Vac	0.080	0.6 / 0.3	7.90	F1	0.080		
264Vac	0.076	0.6 / 0.3	8.10	F1	0.076		
Supplementary information: The measured input current at rated voltage shall be less than 110 % of rated current.							

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

2.2	TABLE: evaluation of voltage limiting components in SELV circuits		P
-----	--	--	---

Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components
	V peak	V d.c.	
Tested on model: GTM96060-0603			
T1 sec. output	28.4	--	N/A

Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components
	V peak	V d.c.	
Tested on model: GTM96060-0606-1.0			
Output	--	5.071	T1 secondary winding C5, D6

Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)		
T1 secondary winding short circuit	Unit shut down immediately, no output voltage.		
C5 open circuit	Normal operation		
D6 short circuit	Unit shut down immediately, no output voltage.		

Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components
	V peak	V d.c.	
Tested on model: GTM96060-0648			
Output	--	49.0	T1 secondary winding C5, D6

Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)		
T1 secondary winding short circuit	Unit shut down immediately, no output voltage.		
C5 open circuit	Normal operation		
D6 short circuit	Unit shut down immediately, no output voltage.		
supplementary information: Test voltage: 264 Vac, 60 Hz			

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

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
L to N before fuse(FI)	372	240	1.5	3.62	2.4	3.62	
Two poles of fuse(FI)	372	240	1.5	2.51	2.4	2.51	
Live parts to accessible parts(RI)	372	240	4.0	7.2	4.6	7.2	
Primary circuits to secondary circuits(RI)	372	240	4.0	8.05	4.6	8.05	
Primary winding to secondary winding(RI)	360	204	4.0	8.5	4.6	8.5	
Secondary winding to core(RI)	360	204	4.0	8.8	4.6	8.8	
Core to secondary parts(RI)	360	204	4.0	9.6	4.6	9.6	
Supplementary information:							

4.5	TABLE: Thermal requirements						P
	Supply voltage (V)		90		264		—
	Ambient T _{min} (°C)		50		50		—
	Model	GTM96060-0603					—
Maximum measured temperature T of part/at.....:		T (°C)					Allowed T _{max} (°C)
T1 winding			93		93		105
T1 core			95		97		Ref
Varistor			76		73		85
CY1			79		78		85
PCB			89		88		130
External enclosure			67		66		95
Internal enclosure			75		74		Ref
Output cord			64		63		80
Supplementary information:							
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)
Supplementary information:							

IEC 60950-1								
Clause	Requirement + Test				Result - Remark		Verdict	
4.5	TABLE: Thermal requirements						P	
	Supply voltage (V)	90		264			—	
	Ambient T _{min} (°C)	50		50			—	
	Model	GTM96060-0606-1.0					—	
Maximum measured temperature T of part/at.....:		T (°C)				Allowed T _{max} (°C)		
T1 winding		96		97			105	
T1 core		95		97			Ref	
Varistor		72		69			85	
CY1		75		74			85	
PCB		79		78			130	
External enclosure		68		68			95	
Internal enclosure		76		77			Ref	
Output cord		64		63			80	
Supplementary information:								
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
Supplementary information:								

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

4.5	TABLE: Thermal requirements (Continued)						P
	Supply voltage (V)	90		264		—	
	Ambient T _{min} (°C)	50		50		—	
	Model	GTM96060-0648				—	
Maximum measured temperature T of part/at.....:		T (°C)				Allowed T _{max} (°C)	
T1 winding		94		95		105	
T1 core		91		93		Ref	
Varistor		69		66		85	
CY1		71		70		85	
PCB		78		78		130	
External enclosure		65		65		95	
Internal enclosure		70		70		Ref	
Output cord		64		63		80	
Supplementary information:							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
Supplementary information:							

5.1	TABLE: touch current measurement			P
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions	
L/N and secondary	Max. 0.054	0.25	Maximum value measured on all models is selected.	
L/N – Plastic enclosure covered with metal foil	Max. 0.024	0.25		
Supplementary information:				
Input: 264V / 60Hz				
Overall capacity: CY1=CY2=470pF				

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

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Primary circuit to body (RI)		AC	3000	No
Primary circuit to secondary circuit (RI)		AC	3000	No
L and N (FS1)		AC	1500	No
Primary winding to secondary winding of T1 (RI)		AC	3000	No
Secondary winding to core (RI)		AC	3000	No
Insulation tape around transformer per layer		AC	3000	No
Primary and secondary of Y1 capacitor		DC	4242	No
Supplementary information:				

5.3	TABLE: Fault condition tests					P
Ambient temperature (°C)		25, if no else specified			—	
Power source for EUT: Manufacturer, model/type, output rating		GTM96060-0603			—	
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Output	OL	264	1h	F1	0.095A	Load to 2.067A, EUT protected immediately, no hazards. Temperature recorded: T1 winding = 85°C Enclosure: 45°C
Output	OL	90	1h	F1	0.197A	Load to 1.962A, EUT protected immediately, no hazards. Temperature recorded: T1 winding = 91°C Enclosure: 47°C
Output	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
C5	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
Q1 pinD-S	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards
Q1 pinG-S	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards

IEC 60950-1							
Clause	Requirement + Test					Result - Remark	Verdict
T1 pin10-pin8	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards	
C1	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	
D1	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	
Supplementary information: "Sc" means short-circuited test, "Ol" means overload test, "Oc" means open-circuited test; "Uoc" means output voltage without load.							

5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)				25, if no else specified	—
	Power source for EUT: Manufacturer, model/type, output rating				GTM96060-0606-1.0	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Output	OL	264	1h	F1	0.088A	Load to 1.467A, EUT protected immediately, no hazards. Temperature recorded: T1 winding = 75°C Enclosure: 41°C
Output	OL	90	1h	F1	0.182A	Load to 1.462A, EUT protected immediately, no hazards. Temperature recorded: T1 winding = 86°C Enclosure: 43°C
Output	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
C5	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
Q1 pinD-S	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards
Q1 pinG-S	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
T1 pin10-pin8	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards

IEC 60950-1							
Clause	Requirement + Test					Result - Remark	Verdict
C1	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	
D1	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	
Supplementary information: "Sc" means short-circuited test, "Ol" means overload test, "Oc" means open-circuited test; "Uoc" means output voltage without load.							

5.3	TABLE: Fault condition tests (Continued)					P
	Ambient temperature (°C)				25, if no else specified	—
	Power source for EUT: Manufacturer, model/type, output rating				GTM96060-0648	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Output	OL	264	1h	F1	0.106A	Load to 0.414A, EUT protected immediately, no hazards. Temperature recorded: T1 winding = 109°C Enclosure: 51°C
Output	OL	90	1h	F1	0.220A	Load to 0.298A, EUT protected immediately, no hazards. Temperature recorded: T1 winding = 115°C Enclosure: 54°C
Output	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
C5	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
Q1 pinD-S	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards
Q1 pinG-S	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
T1 pin10-pin8	SC	90/264	10mins	F1	0	EUT protected immediately, no hazards
C1	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards

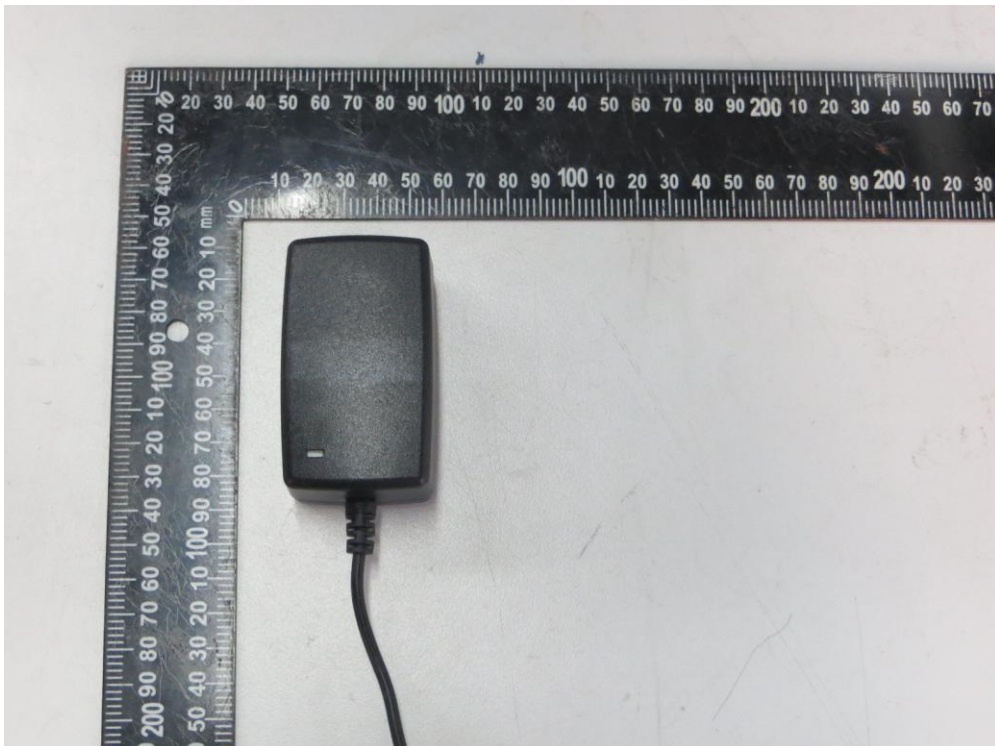
IEC 60950-1							
Clause	Requirement + Test					Result - Remark	Verdict
D1	SC	90/264	<1s	F1	10*	EUT shut down immediately, fuse opened, repeat 10 times, no hazards	
Supplementary information: "Sc" means short-circuited test, "Ol" means overload test, "Oc" means open-circuited test; "Uoc" means output voltage without load.							

Photos of product

Overall view for new structure



Overall view for new structure



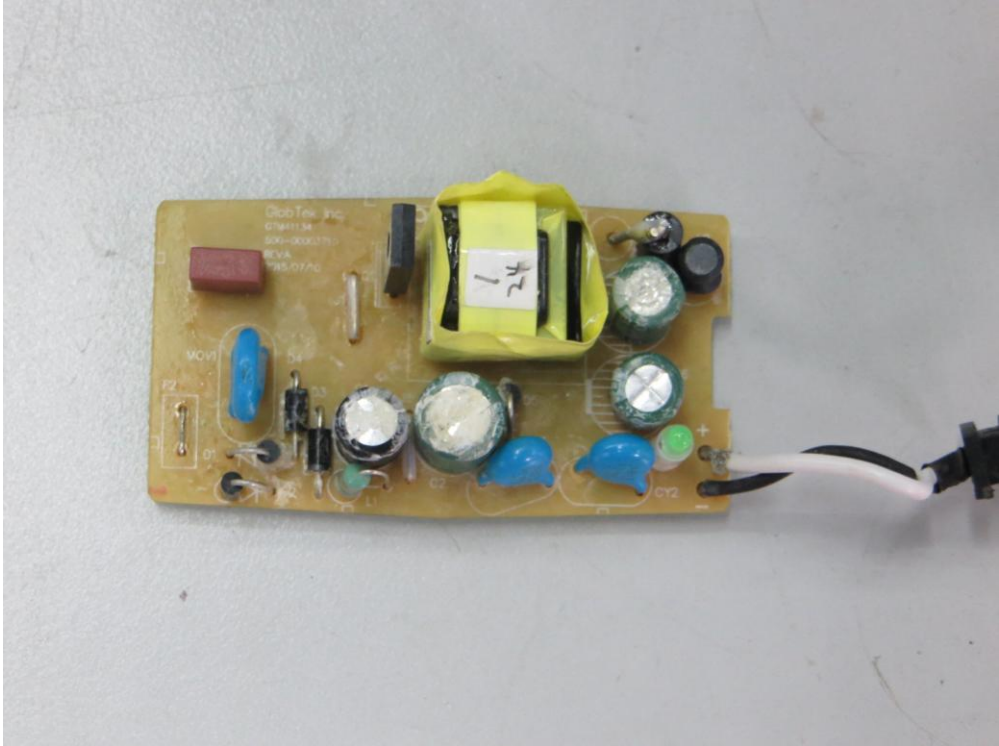
Internal view for new structure



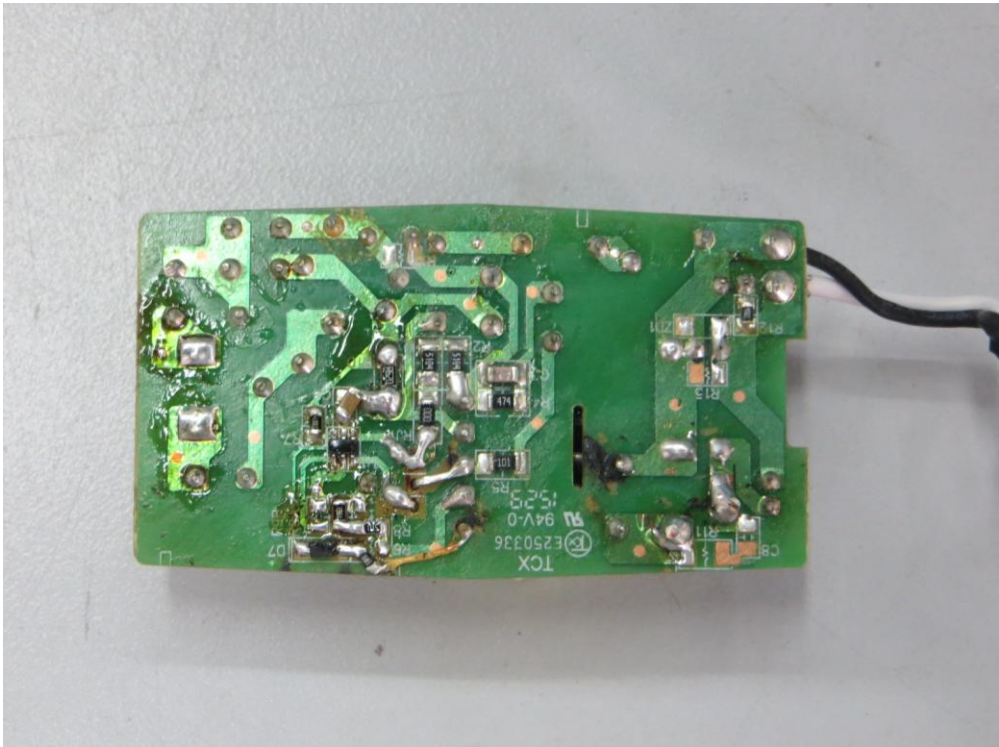
Internal view for new structure



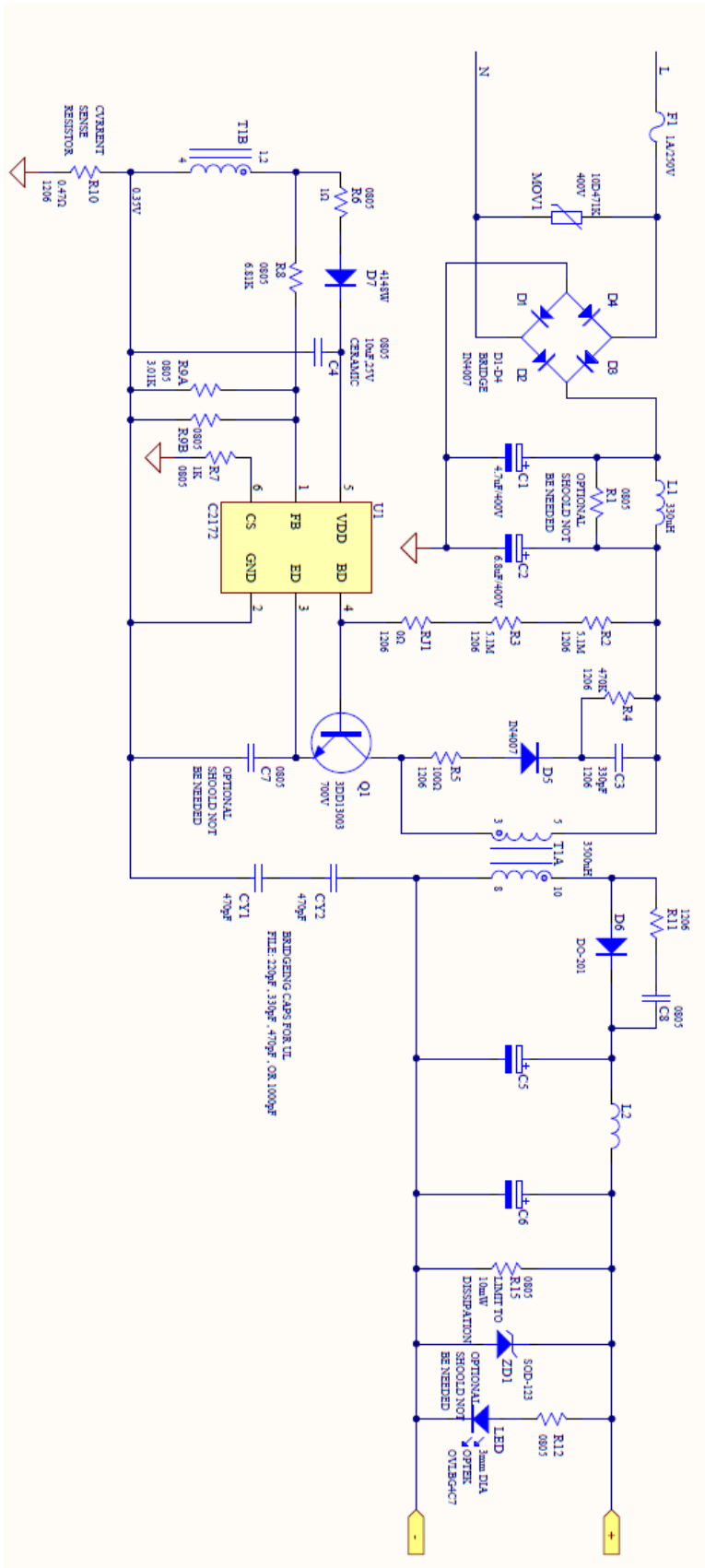
PCB for new structure



PCB for new structure



Appendix: Schematics for new structure



Appendix: PCB Layout for new structure

