



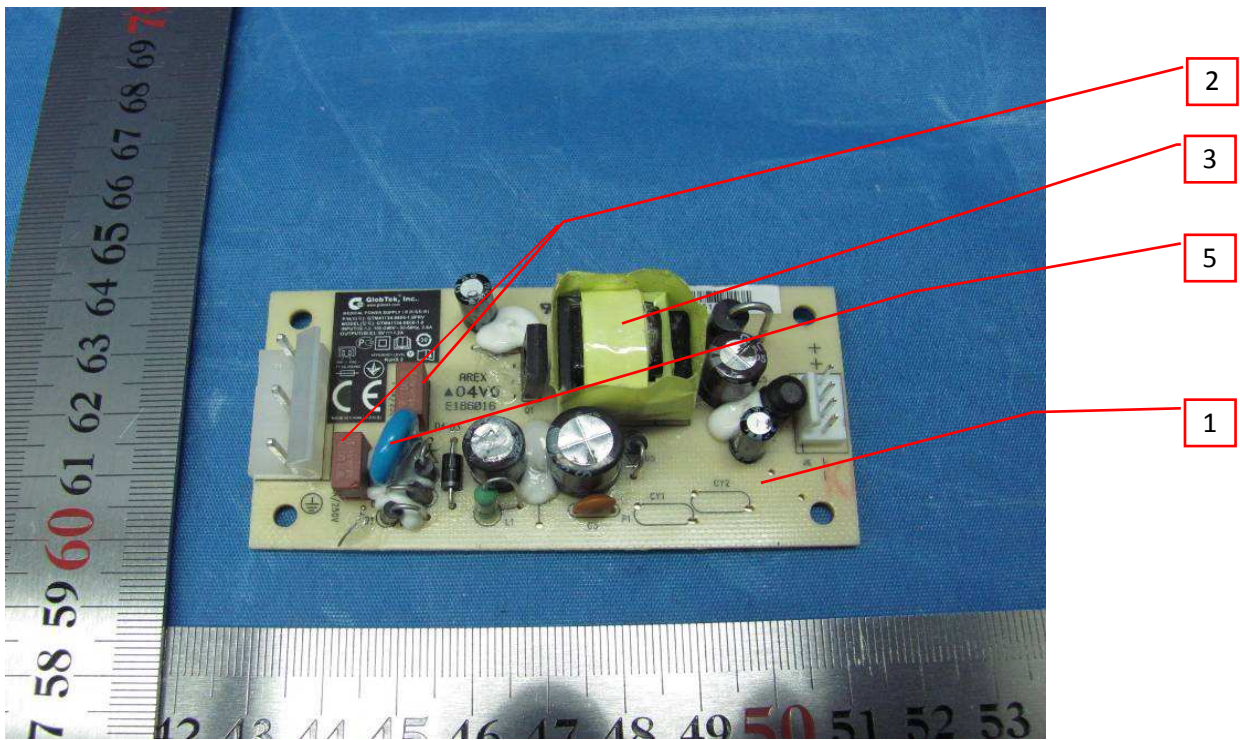
# RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address					
Report Number	140900039SHA-003	Original Issued:	21-Oct-2014	Revised:	None
Standard(s)	Standard for Safety for Information Technology Equipment Safety Part 1: General Requirements: (UL 60950-1 Issued: 2007/03/27 Ed:2 Rev: 2011/12/19 & CAN/CSA C22.2 No.60950-1 Issued: 2007/03/27 Ed:2 (R 2012) Rev: 2011/12/19)				
Applicant	GlobTek, Inc.	Manufacturer	GlobTek (Suzhou) Co., Ltd.		
Address	186 Veterans Dr. Northvale, NJ 07647 USA	Address	Building 4. No 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021		
Country	USA	Country	China		
Contact	Hans Moritz	Contact	Demon Zhou		
Phone	(201)784-1000 Ext.253	Phone	86 512 6279 0301 Ext.189		
FAX	(201)784-0111	FAX	86 512 6279 0355		
Email	Moritzh@globtek.com	Email	demon.zhou@globtek.cn		

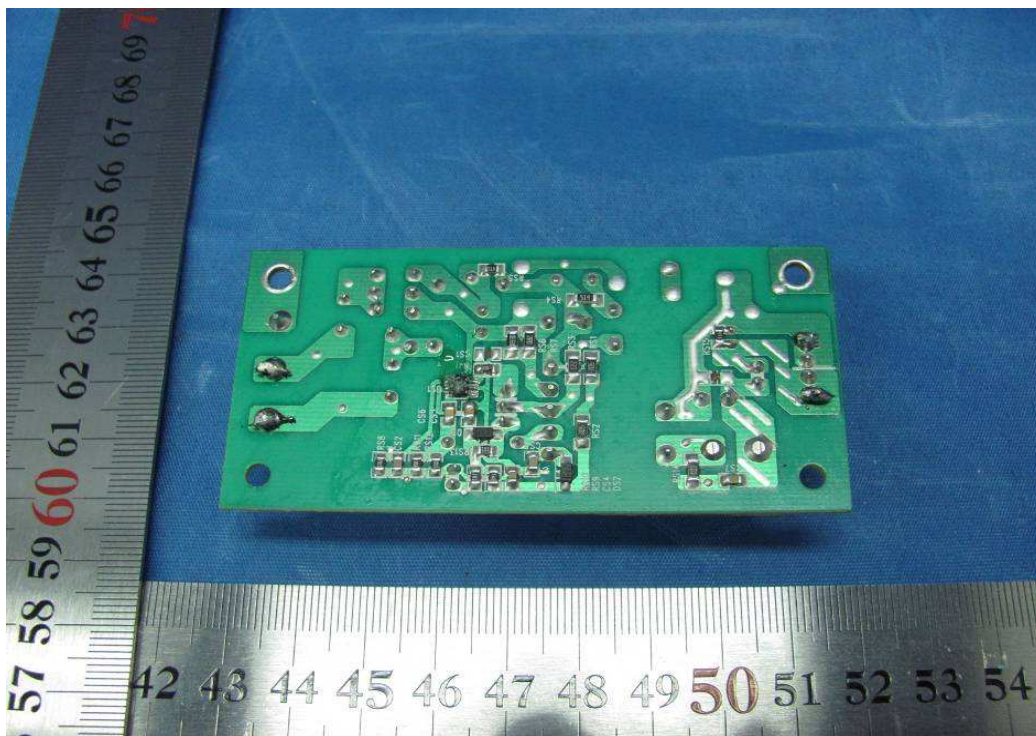
<b>2.0 Product Description</b>	
Product	ITE/Medical Power Supply
Brand name	GlobTek
Description	The power supply is a open frame type switch mode power supply which provides a protective earth bonding terminal on the PCB. Interchangeable appliance inlets can be mounted on the device, which can provide earthing connection or not. The installation and use for the insulation construction shall be finally determined in the end product.
Models	GT*41134-***-*** (The 1st "*" part can be "M" or '-' or 'H'; The 2nd "*" part can be "01" to "06", with interval of 1; The 3rd "*" part can be "03", "04", "06", "12", "15", "18", "24", "36" or "48"; The 4th "*" part can be "-0.1" to "-11.9" with interval of 0.1 or blank; The 5th "*" part can be 'F', "FW"; The 6th "*" part can be 'T' or blank. The 7th "*" part can be '2', '3', '3A' or blank.)
Model Similarity	<p>GT*41134-***-***</p> <p>The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.</p> <p>The 2nd "*" denotes the rated output wattage designation, which can be "01" to "06", with interval of 1.</p> <p>The 3rd "*" 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 section 4.0 for details). Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.</p> <p>The 4th "*" 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.</p> <p>The 3rd "*" and 4th "*" together denote the output voltage, with a range of 3.3 - 48 volts.</p> <p>The 5th "*" can be 'F' or 'FW' to denote open frame model with connector which is fixing on the PCB.</p> <p>'F' represent models with Class I connector and 'FW' represent models with Class II connector</p> <p>The 6th "*" can be blank or 'T'.</p> <p>When the 6th "*" is 'T' to denote open frame model with appliance inlet.</p> <p>When the 6th "*" is 'T', the 7th "*" can be '2' representing models with Class II inlet or '3' and "3A" representing model with two types of Class I inlets C14 &amp; C6.</p>
Ratings	<p>Input: 100-240V~, 50-60Hz, 0.6A</p> <p>Output: Refer to illustration No.1 for details.</p>
Other Ratings	N/A
Conditions of Acceptability	<p>The products covered in this Report are incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in other products. Consideration should be given to the following when the component is used in or with another product.</p> <p>(Typical Conditions of Acceptability to be considered for recognized component products follow:)</p> <ol style="list-style-type: none"> <li>1. Suitability of the enclosure should be evaluated when installed in the end product including access to energized parts, clearance &amp; creepage distance measurement and mechanical strength.</li> <li>2. Temperature Testing should be performed on this component when installed in the end product.</li> <li>3. Safety instruction should be evaluated within the end product.</li> </ol>

**3.0 Product Photographs**

**Photo 1 - COMPONENT SIDE VIEW OF EUT**



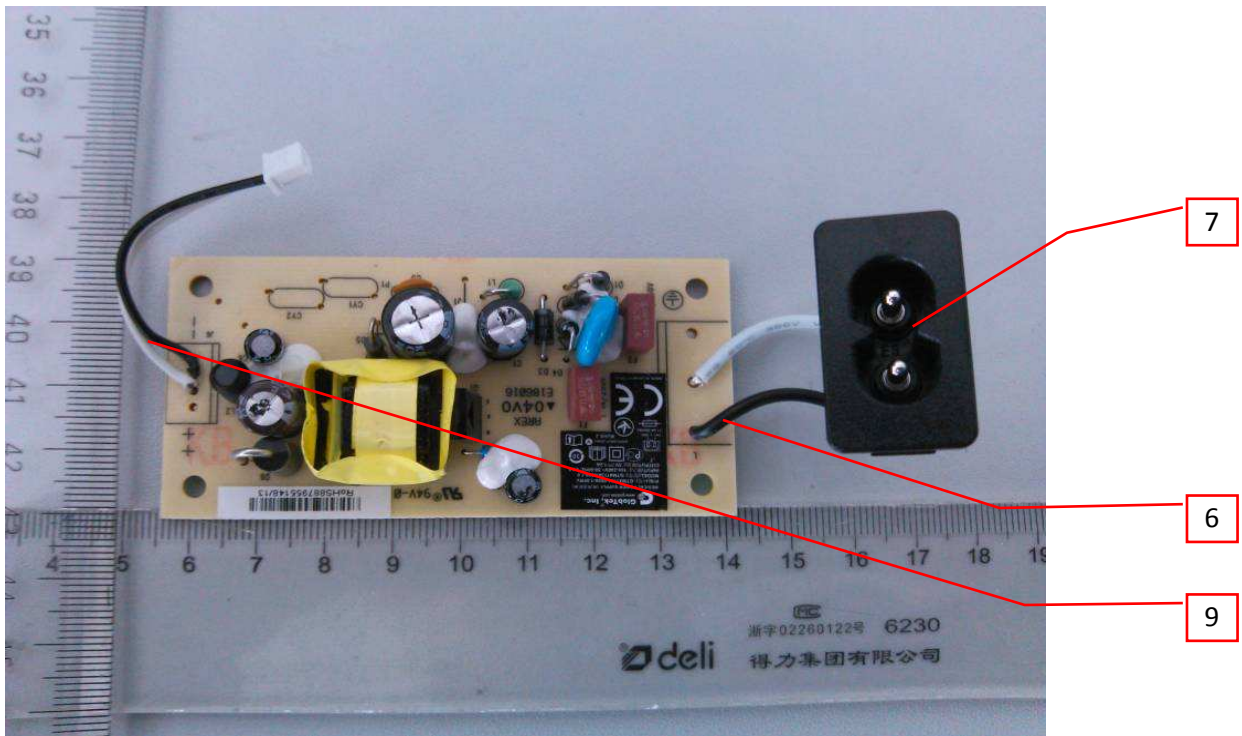
**Photo 2 - SOLDERING SIDE VIEW OF EUT**



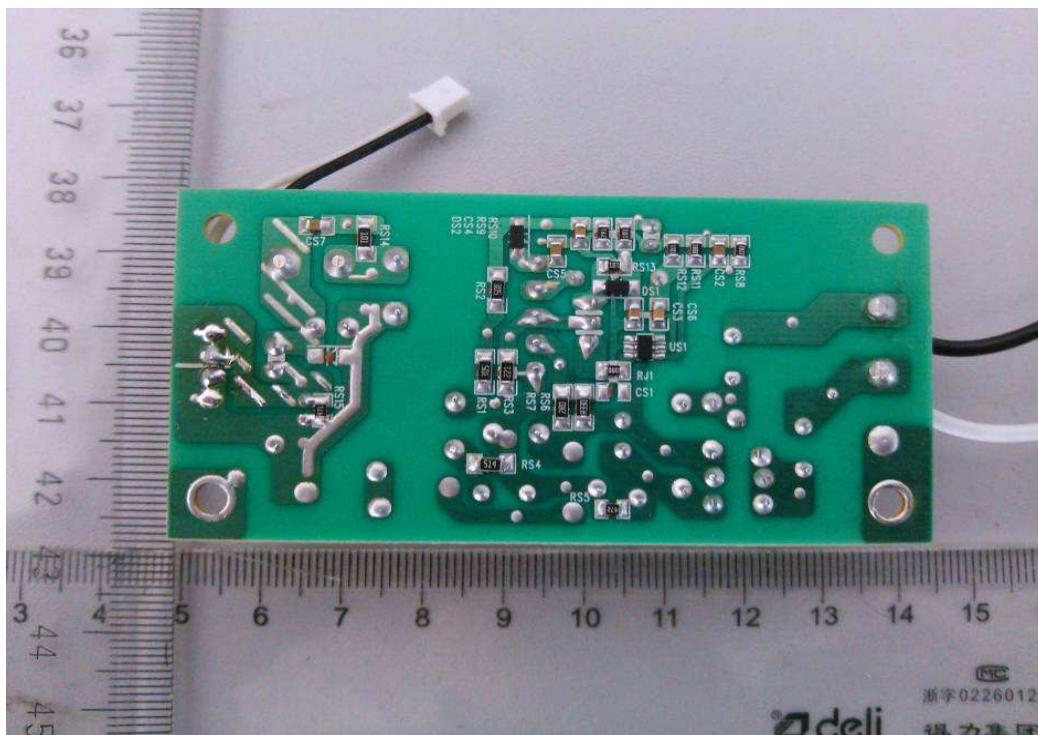


**3.0 Product Photographs**

**Photo 3 - COMPONENT SIDE OF OPEN FRAME MODEL WITH APPLIANCE INLET**



**Photo 4 - SOLDERING SIDE OF OPEN FRAME MODEL WITH APPLIANCE INLET**



4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
1	1	PCB material	TECHNI TECHNOLOGY LTD	T2A T2B T4	Min. 1.6 mm thickness, min. V-0, 130°C	cURus
			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4		
			CHEERFUL ELECTRONIC	03 03A		
			DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2		
			SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1		
			SHANGHAI AREX PRECISION ELECTRONIC CO LTD	04V0 02V0		
			BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A		
			KUOTIANG ENT LTD	C-2 C-2A		
			PACIFIC WIN INDUSTRIAL LTD	PW-02, PW-03		
			SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX		
		Various	Various			
1	2	Fuse (F1, F2) (F2 is optional)	CONQUER ELECTRONICS CO LTD	MST	T1A or T6.3A, 250V, Rated breaking capacity 100A	cURus
			EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	T1A or T6.3A, 250V, Rated breaking capacity 130A	
			BEL FUSE INC	RST	T1A or T6.3A, 250V, Rated breaking capacity 100A	
				5ST	T1A or T6.3A, 250V, Rated breaking capacity 35A	
			COOPER BUSSMANN LLC	SS-5	T1A or T6.3A, 250V, Rated breaking capacity 35A	
			DAS & SONS INTERNATIONAL LTD	385T series	T1A or T6.3A, 250V, Rated breaking capacity 35A	
			SHENZHEN LANSON ELECTRONICS CO LTD	SMT	T1A or T6.3A, 250V, Rated breaking capacity 35A	
			WALTER ELECTRONIC CO LTD	ICP series	T1A or T6.3A, 250V, Rated breaking capacity 50A.	
			ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD	RTI-10 series	T1A or T6.3A, 250V, Rated breaking capacity 50A	
			SUN ELECTRIC CO	5T	T1A or T6.3A, 250V, Rated breaking capacity 100A	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
1	3	Isolation 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	Class B with insulation system below.	NR
1	3a	Insulation system		ENG130-1	Class B	cURus
			GLOBTEK INC	GTX-130-TM		
			SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01		
			WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130		
1	4	Y-Capacitor (CY1 & CY2) (Optional) (Not shown)	TDK CORP	CD	Type Y1, max. 470pF, min. 250V, min. 125°C	cURus
			SUCCESS ELECTRONICS CO LTD	SE SB	Type Y1, max. 470pF, min. 250V, min. 125°C	
			MURATA MFG CO LTD	KX	Type Y1, max. 470pF, min. 250V, min. 125°C	
			WALSIN TECHNOLOGY CORP	AH	Type Y1, max. 470pF, min. 250V, min. 125°C	
			JYA-NAY CO LTD	JN	Type Y1, max. 470pF, min. 250V, min. 125°C	
			HAOHUA ELECTRONIC CO	CT7	Type Y1, max. 470pF, min. 250V, min. 125°C	
			JERRO ELECTRONICS CORP	JX-series	Type Y1, max. 470pF, min. 250V, min. 125°C	
			JYH CHUNG ELECTRONICS CO LTD	JD	Type Y1, max. 470pF, min. 250V, min. 125°C	
			WELSON INDUSTRIAL CO LTD	WD	Type Y1, max. 470pF, min. 250V, min. 125°C	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
1	5	Varistor (MOV1) (Optional)	JOYIN CO LTD	10N471K 14N471K	Maximum continuous voltage: 300Vac	cURus
			CENTRA SCIENCE CORP	10D471K 14D471K		
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10471K TVR14471K		
			SUCCESS ELECTRONICS CO LTD	SVR10D471K SVR14D471K		
			CERAMATE TECHNICAL CO LTD	GNR10D471K GND14D471K		
			BRIGHTKING (SHENZHEN) CO LTD	10D471K 14D471K		
			LIEN SHUN ELECTRONICS CO LTD	10D471K 14D471K		
			HONGZHI ENTERPRISES LTD	HEL-10D471K HEL-14D471K		
			GUANGXI NEW FUTURE	10D471K 14D471K		
3	6	Internal primary wiring	DONGGUAN YUE YANG WIRE & CABLE CO LTD	1007, 1015, 1185, 2464, 2468	Min. 18AWG, min. 300Vac, min. 80°C	cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD			
			HIP TAI ELECTRIC WIRE CO			
			KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD			
			SHENG YU ENTERPRISE CO LTD			
			SUZHOU YEMAO ELECTRONIC CO LTD			
			SUZHOU HONGMENG ELECTRONIC CO LTD			
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD			
SUZHOU QCTECH CO LTD						

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
3	7	AC inlet (Class I or Class II)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac Standard sheet: C6	cURus
			Rich Bay Co., Ltd.	R-30790 R-307		
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-02		
			TECX-UNIONS Technology Corporation	TU-333		
			Rong Feng Industrial Co., Ltd.	RF-190		
			Inalways Corporation	724		
			Kunshan Dlk Electronics Technology Co., Ltd	CDJ-2		
			Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac Standard sheet: C14	
			Rich Bay Co., Ltd.	R-301SN		
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03		
			TECX-UNIONS Technology Corporation	TU-301-S TU-301-SP		
			Rong Feng Industrial Co., Ltd.	SS-120		
			Inalways Corporation	0711 series		
			Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac Standard sheet: C8	
			Rich Bay Co., Ltd.	R-201SN90		
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01		
			TECX-UNIONS Technology Corporation	SO-222 series		
			Rong Feng Industrial Co., Ltd.	RF-180		
			Inalways Corporation	0721 series		
			Kunshan Dlk Electronics Technology Co., Ltd	CDJ-8		
			3	8	Insulating tube used on appliance inlet (Not shown)	
QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C				
DONGGUAN SALIPT CO LTD	SALIPT S-901-300 SALIPT S-901-600	Min. 300V, 125°C				
GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C				
CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C				
SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	600V, 125°C				



<b>4.0 Critical Components</b>						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
3	9	Output cord	Various	Various	Min. 24AWG, min. 300Vac, min. 80°C	cURus
<p><b>NOTES:</b></p> <p>1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.</p> <p>2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.</p> <p>3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.</p>						

**5.0 Critical Unlisted CEC Components**

**No Unlisted CEC components are used in this report.**

## 6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 2.0 mm minimum spacing are maintained through air between current-carrying parts of opposite polarity and 4.0 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits. In primary circuits, 2.4 mm minimum spacing are maintained over surfaces of insulating material between current-carrying parts of opposite polarity and 4.8 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - For adapter models, all uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings and metal enclosure earthed with ventilation holes other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord and the equipment grounding terminal.
6. Polarized Connection - This product is provided with a polarized power supply connection.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. UL approved wiring is used as secondary output lead wire of SELV circuits.
8. Schematics - Refer to Illustration No(s). 2 & 3 for schematics & PCB layout requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked as follows: brand name, model number, electrical ratings, manufacturer. Refer to Illustration No. 4 for details.
10. Cautionary Markings - Refer to illustrations No. 4 for details.
11. Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. They are kept in file and need not be repeated here.

**7.0 Illustrations**

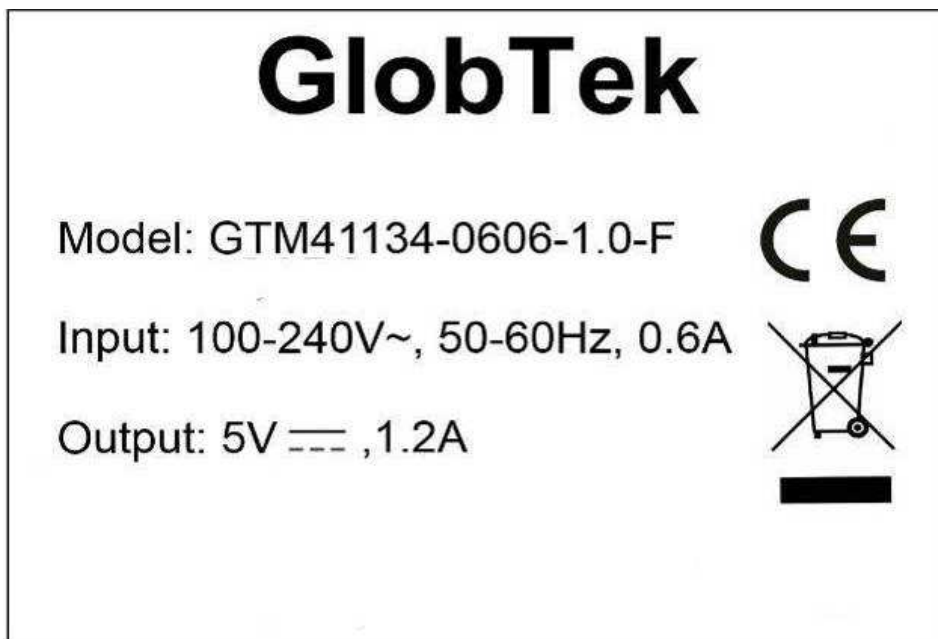
**Illustration 1 - Model list**

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

**7.0 Illustrations**

**Illustration 4 - Marking**

The marking plates of the other models listed in this report are identical with below except model name and output parameter.



ETL Mark



**RECOGNIZED  
COMPONENT**



**Intertek**  
**4007497**

Conforms to UL STD 60950-1  
Certified to CAN/CSA STD C22.2 No.60950-1

8.0 Test Summary			
Evaluation Period	2014-09-01 ~ 2014-10-13		Project No. 140900039SHA
Sample Rec. Date	28-Aug-2014	Condition	Prototype
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	Standard for Safety for Information Technology Equipment Safety Part 1: General Requirements: (UL 60950-1 Issued: 2007/03/27 Ed:2 Rev: 2011/12/19 & CAN/CSA C22.2 No.60950-1 Issued: 2007/03/27 Ed:2 (R 2012) Rev: 2011/12/19)		
	Clause		
Input current test	1.6.2		
Marking durability test	1.7.11		
Energy hazard test	2.1.1.1		
Voltages under normal conditions test	2.2.2		
Voltages under fault conditions test	2.2.3		
Limited current circuit test	2.4		
Limited power source test	2.5		
Humidity test	2.9.2		
Working voltage measurement	2.10.2		
Clearances and creepage distances	2.10.3/2.10.4		
Distance through insulation measurement	2.10.5		
Mechanical strength - steady force test, 10 N	4.2.2		
Temperature test	4.5.1		
Ball pressure test of thermoplastic parts	4.5.5		
Touch current & protective conductor current test	5.1		
Electric strength test	5.2		
Abnormal operating and fault conditions test	5.3		

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Jamie Wu	Reviewed by:	Justin Yu
Title:	Project engineer	Title:	Reviewer
Signature:		Signature:	



**9.0 Correlation Page For Multiple Listings**

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	GlobTek, Inc.
Address	186 Veterans Dr. Northvale, NJ 07647 USA
Country	USA
Product	ITE/Medical Power Supply

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

## 10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

### COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments

### LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

**For US standards**, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

**For Canadian standards**, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

**Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.**

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

### MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

### FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

### 10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

**Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation**

Ship the samples to:  
Intertek Testing Services Shanghai Limited  
ETL Component Evaluation Center  
Building No. 86, 1198 Qinzhou Road (North)  
Shanghai 200233, China  
Attn: Ms. Dansy Xu

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

**11.0 Manufacturing and Production Tests**

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

**Required Tests**

Dielectric Voltage Withstand Test

**11.1 Dielectric Voltage Withstand Test**

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

**Products Requiring Dielectric Voltage Withstand Test:**

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
Between L/N and secondary output for Class II models only	3000Vac	1 s

