



RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address			
Report Number	140800196SHA-002	Original Issued:	11-Aug-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.
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2.0 Product Description	
Product	ITE Power Supply
Brand name	GlobTek
Description	<p>The power supply is a switch mode power supply for building in. The unit has universal input (AC or DC) with active power factor correction. Factory configurable output is from 12 V to 55 V in 0.1 V increments. The unit have built in EMI filter, there is also remote output sensing options. Unit is provided as open frame power supply or as power supply unit with performed enclosure. Power supply unit can be provided with or without PE (Protective Earthing).</p> <p>Perforated enclosure with PE: Bottom metal plate is connected to protective earthing. Bottom metal plate is separated from primary circuit by basic insulation. Faston blade terminal used for connection of the protective earthing. PCB is connected to metal bottom plate by four screws (2 on primary side and 2 on secondary side). Primary screws provide protective earthing of the bottom metal plate. Additional insulation foil provided between PCB and bottom metal plate.</p> <p>Perforated enclosure without PE: The following capacitors shall be removed from the equipment (CY1, CY2, CY3, CY4, CY5, CY6 and CY7). Connecting wire between internal primary parts (marked with "B") shall be also removed from the equipment. Metal bottom plate is separated from primary circuit by reinforced insulation; there is also reinforced insulation between primary and secondary circuit. Additional insulation foil provided between PCB and bottom metal plate not protectively earthed.</p> <p>Open-frame power supply unit with PE: Faston blade terminal used for connection of the protective earthing. PCB shall be secured within the end product by four screws. Spacers provided between PCB of the power supply unit and end product plate (length of 10 mm). Shorten than 10,0 mm spacers are allowed when a plastic insulator, min. 0.4 mm thickness and with dielectric withstand voltage rating of min. 4000 Vac, is provided between the bottom side of the power supply unit and the system plate or chassis.</p> <p>Open-frame power supply unit without PE: PCB shall be secured within the end product by four screws. Spacers provided between PCB of the power supply unit and end product plate (length of 10 mm). Shorten than 10.0 mm spacers are allowed when a plastic insulator, min. 0,4 mm thickness and with dielectric withstand voltage rating of min. 4000 Vac, is provided between the bottom side of the power supply unit and the system plate or chassis. In the unit, there is single output plus fan voltage for 20 CFM airflow (External Fan is optional used).</p> <p>The equipment has been evaluated for use in a Pollution Degree 2 and overvoltage category II environment and a maximum altitude of 3000m.</p> <p>The product with 50% output power was evaluated for a maximum ambient temperature of 70°C for AC input voltage with 20 CFM airflow cooling. The product with 50% output power was evaluated for a maximum ambient temperature of 55°C for DC input voltage with 20 CFM airflow cooling. The product with 50% output power was evaluated for a maximum ambient temperature of 55°C for AC input voltage with air convention co oling. The product with 50% output power was evaluated for a maximum ambient temperature of 50°C for DC input voltage with air convention cooling. The product with 100% output power was evaluated for a maximum ambient temperature of 40°C for AC and DC input voltage with air conven tion cooling. The temperature test was performed 100 mm above bench.</p>
Models	<p>GT*91110P240*-***-* (The 1st "*" part can be 'M' or '-' or 'H'; The 2nd "*" part can be "12", "15", "18", "24", "36", "48" or "55"; The 3rd "*" part can be 'F' or 'C'; The 4th "*" part can be 'A' or blank; The 5th "*" part can be "W" or blank; The 6th "*" part can be "-0.1" to "-11.9" with interval of 0.1 or blank; The 7th "*" part can be 'S' or "HIOXXX" or "HOXXX" or "HIXXX". "XXX" can be from 000 to 500 with interval of 1.)</p>

2.0 Product Description	
Model Similarity	<p>GT*91110P240*-****-*</p> <p>The 1st “*” part can be 'M' or '-' or 'H' for market identification and not related to safety.</p> <p>The 2nd “*” part denotes the standard rated output voltage designation, which can be “12”, “15”, “18”, “24”, “36”, “48” or “55”.</p> <p>The 3rd “*” part can be 'F' which means open frame or 'C' which means perforated enclosure.</p> <p>The 4th “*” part can be 'A' which means airflow for 240 W load or blank which means no airflow.</p> <p>The 5th “*” part can be 'W' which means Class II or blank which means Class I.</p> <p>The 6th “*” part is optional, which can be “-0.1” to “-11.9” with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different. The result by subtracting the deviation value from the standard rated output voltage denotes the rated output voltage.</p> <p>The 7th “*” part can be 'S' or "HIOXXX" or "HOXXX" or "HIXXX".</p> <p>S = Input header and output header connectors on board</p> <p>HIOXXX = Input and output wire harness. Where XXX can be from 000 to 500 to indicate harness length (maximum length for input and output harnesses is 500mm).</p> <p>HOXXX = Input header connector on board and output wire harness. Where XXX can be from 000 to 500 to indicate harness length (maximum harness length for output is 500 mm).</p> <p>HIXXX = Input wire harness. Output header on board. Where XXX can be from 000 to 500 to indicate harness length (maximum harness length for input is 500mm).</p>
Ratings	<p>Input: 100-240 Vac, 50-60 Hz, 4.0 A or 130-320 Vdc, 2.5A</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"> 1. Suitability of the enclosure should be evaluated when installed in the end product including access to energized parts, clearance & creepage distance measurement and mechanical strength. 2. Temperature Testing should be performed on this component when installed in the end product. 3. Safety instruction should be evaluated within the end product.

3.0 Product Photographs

Photo 1 - External view - 1 of EUT with perforated enclosure



Photo 2 - Bottom view of EUT with perforated enclosure

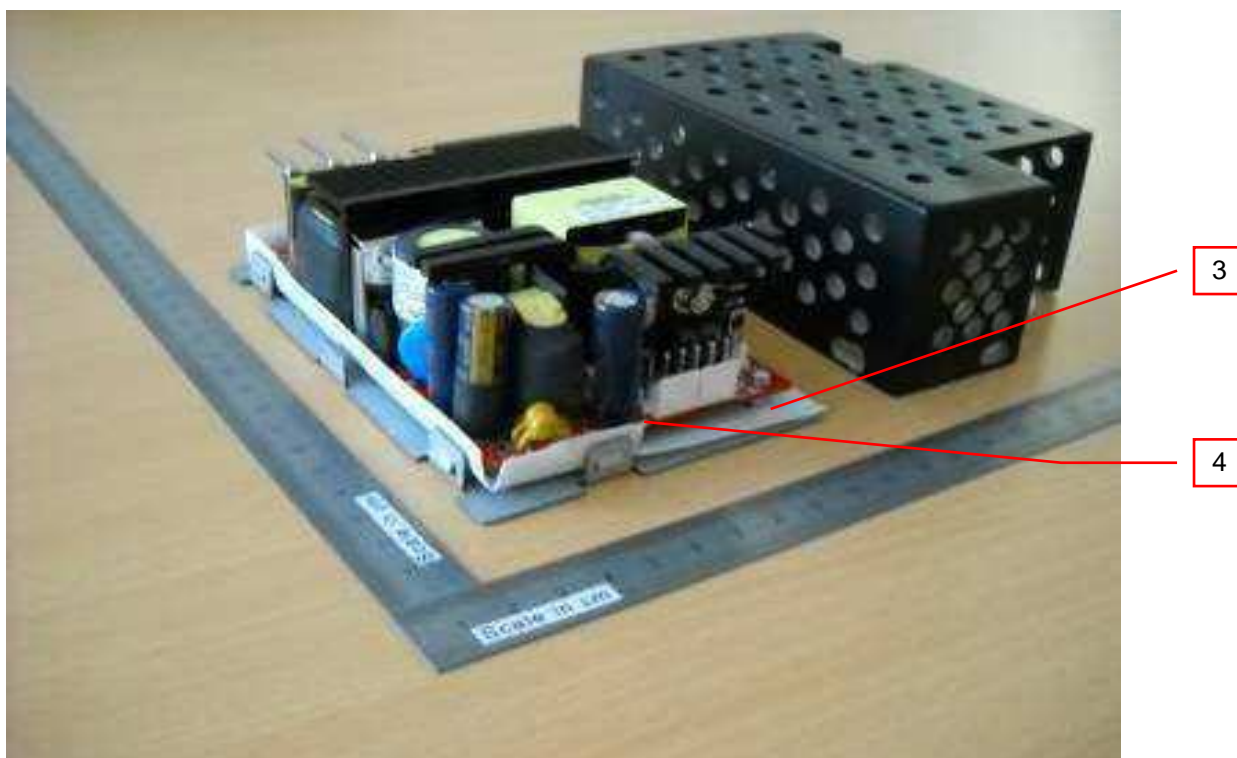


3.0 Product Photographs

Photo 3 - External view - 2 of EUT with perforated enclosure



Photo 4 - Internal view of EUT with perforated enclosure



3.0 Product Photographs

Photo 5 - External view of EUT (open frame model)

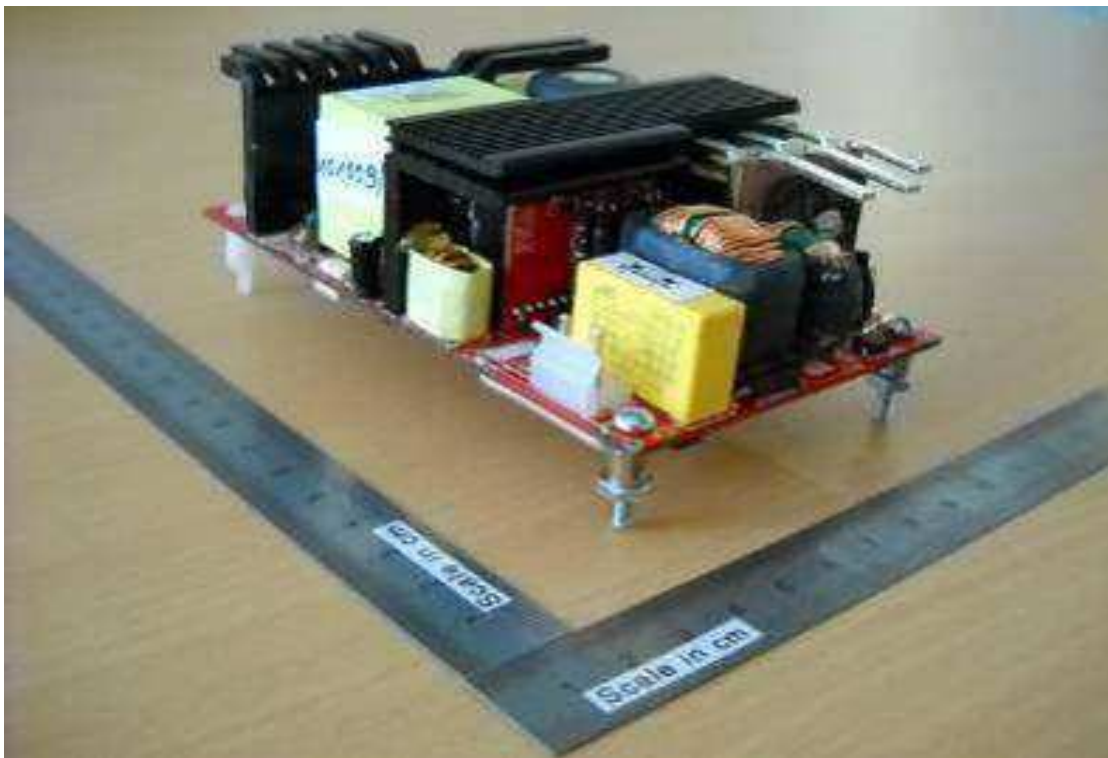
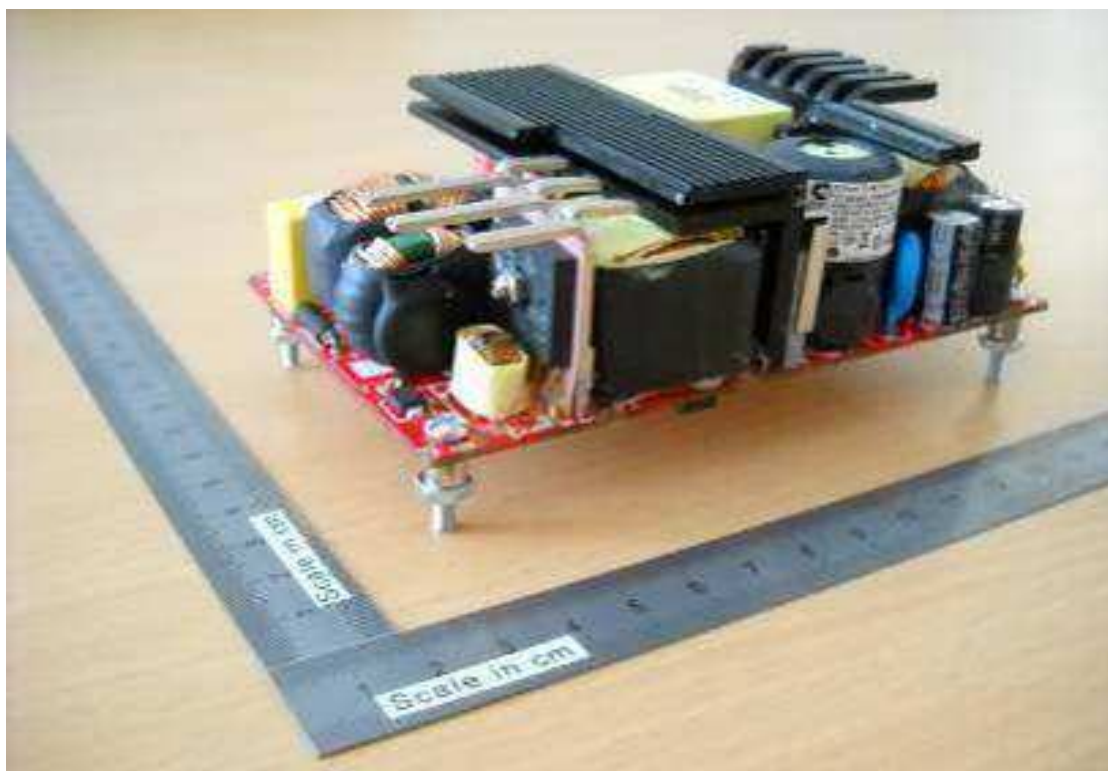


Photo 6 - External view - 2 of EUT (open frame model)



3.0 Product Photographs

Photo 7 - Component side view of PCB

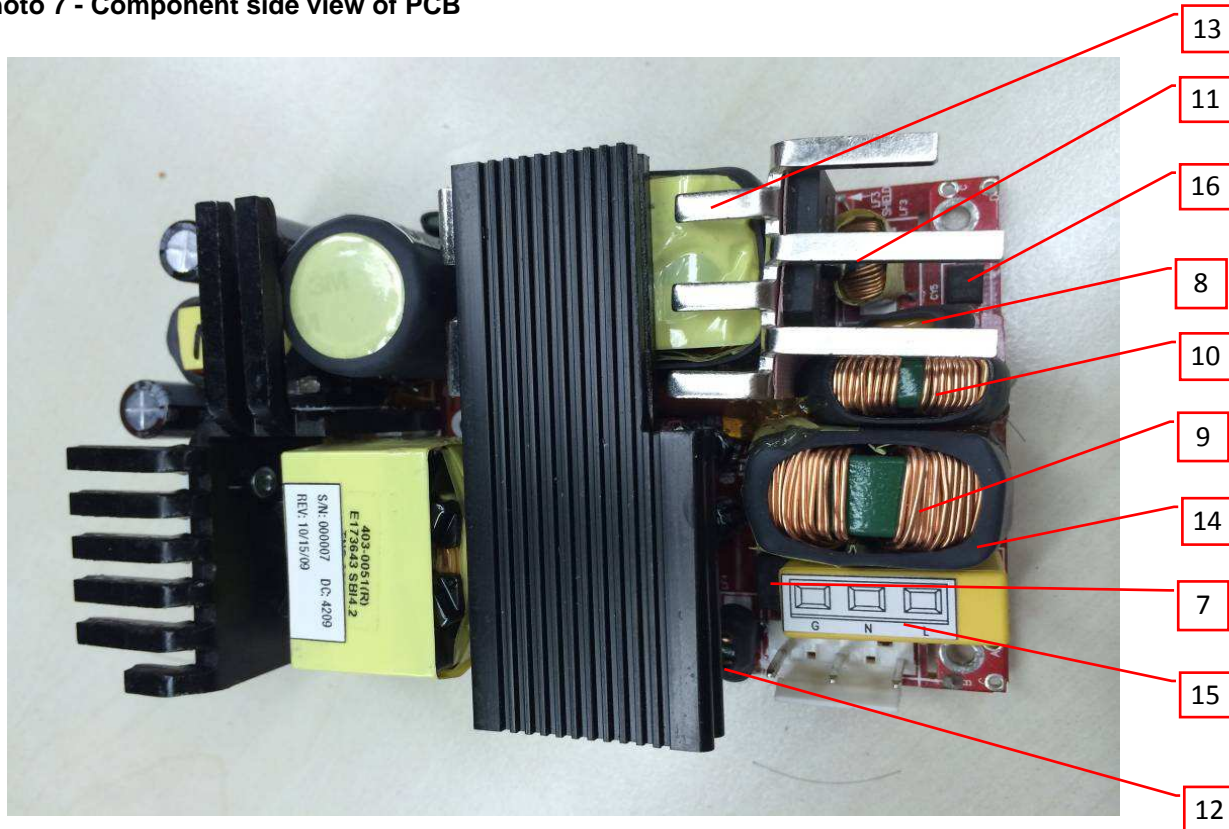
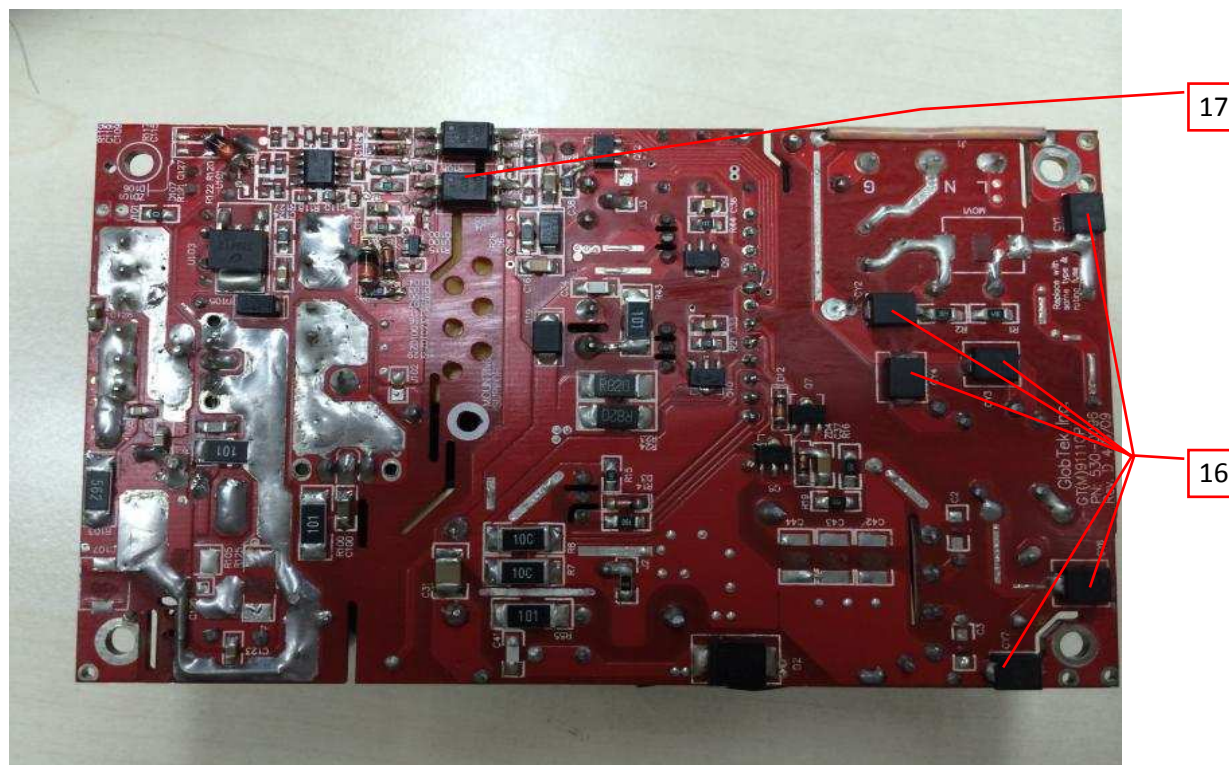


Photo 8 - Soldering side view of PCB



3.0 Product Photographs

Photo 9 - Lateral view - 1 of PCB

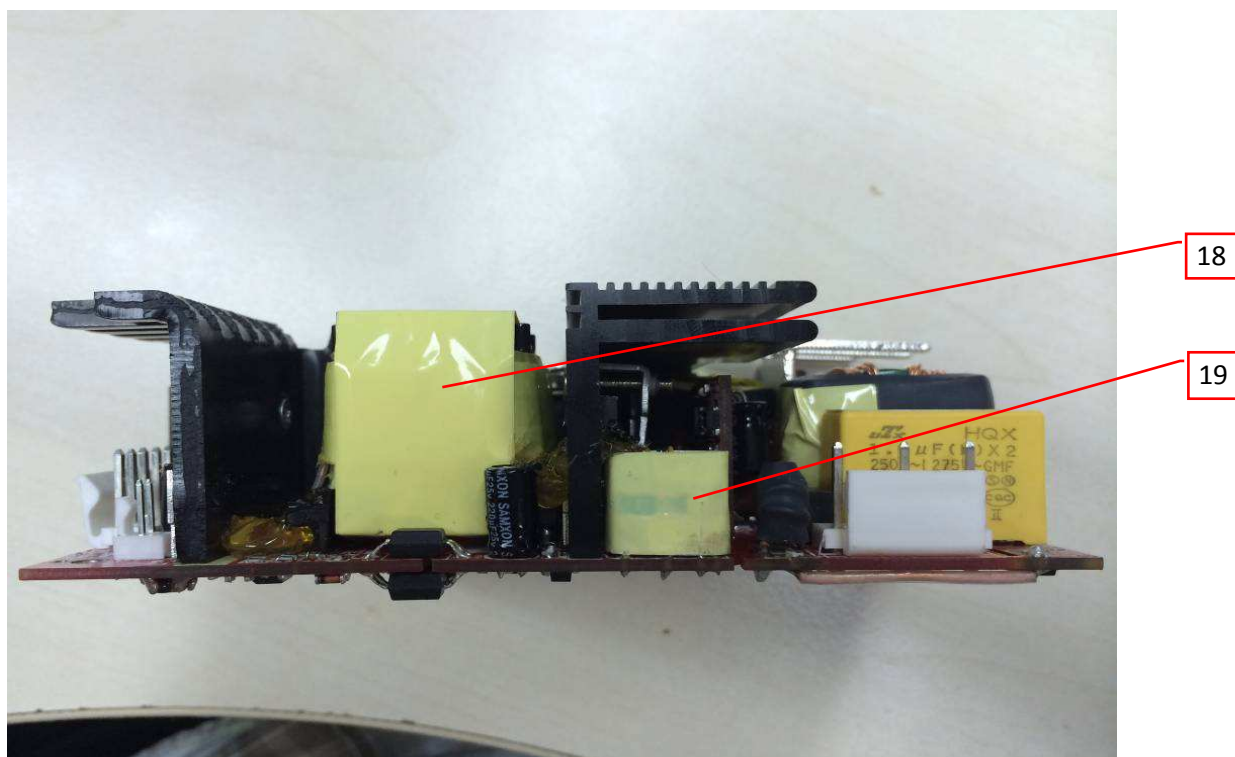
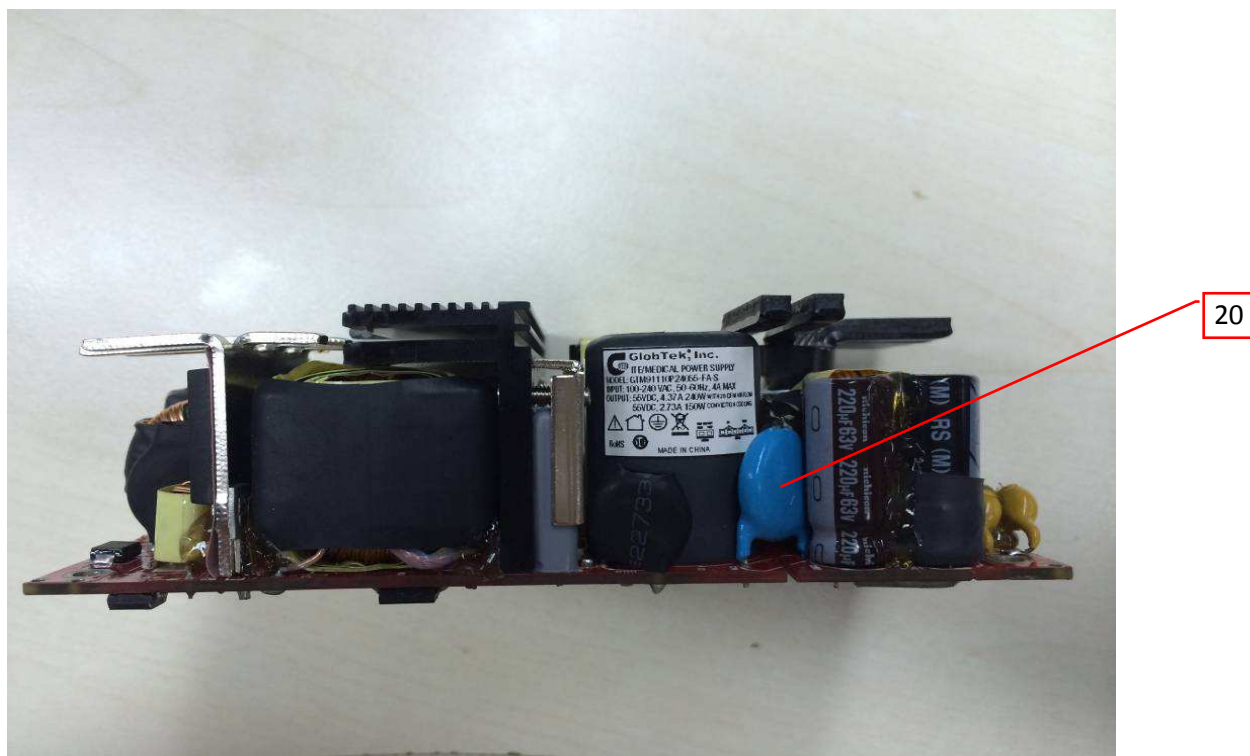


Photo 10 - Lateral view - 2 of PCB



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Plastic enclosure for performed enclosure model	SABIC INNOVATIVE PLASTICS B V	SE1 SE1X SE100X SE100	Min. V-1 at 1.5 mm thickness	cURus
			SABIC INNOVATIVE PLASTICS B V	HF500R C2950	Min. V-0 at 1.5 mm thickness	
			SABIC INNOVATIVE PLASTICS B V	CX7211 EXCY0098	Min. V-1 at 1.25 mm thickness	
3	2	Bottom enclosure for performed enclosure model	Various	Various	Thickness 0.6 mm, nickel plated	NR
5	3	Insulation sheet for performed enclosure model	FORMEX, DIV OF ILLINOIS TOOL WORKS INC, FORMERLY	FORMEX GK	V-0, 115°C, min, 0.4 mm thickness	cURus
			SKC CO LTD	SH71S	VTM-2, min. 0.4 mm thickness, min. 105°C	
			TORAY INDUSTRIES INC	Lumirror H10	VTM-2, min. 0.4 mm thickness, min. 105°C	
			SABIC INNOVATIVE PLASTICS US L L C	FR60 series FR63 series FR65 series FR7 series FR700 series	V-0, min. 0.4 mm thickness, min. 130°C	
			MIANYANG LONGHUA FILM CO LTD	PP-BK-20 PP-BK-17 PP-BK-18	VTM-0, min. 0.4 mm thickness, min. 80°C	
			ITW ELECTRONICS COMPONENTS/ PRODUCTS (SHANGHAI) CO LTD	FORMEX-18 FORMEX-17	V-0, min. 0.4 mm thickness, min. 100°C	
5	4	PCB material	SUZHOU XINKE ELECTRONICS CO LTD	XK-2	Min. 1.7 mm thickness, min. V-0, 130°C	cURus
			SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX		
			SHANGHAI AREX PRECISION ELECTRONIC CO LTD	04V0 02V0		
			Various	Various		
5	5	Bonding wire for Class I model (Not shown)	Various	1185 1015 1007	Min.300V, min.105°C, min.18 AWG	cURus
7	6	Fuse (F1) (Not shown)	WALTER ELECTRONIC CO LTD	TAP ICP series	T5A, 250V, Rated breaking capacity 50A	cURus
			CONQUER ELECTRONICS CO LTD	PTP	T5A, 250V, Rated breaking capacity 50A	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
7	7	Fuse (F2)	CONQUER ELECTRONICS CO LTD	MST SAT	T5A, 250V, Rated breaking capacity 50A	cURus
			EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	T2A, 250V, Rated breaking capacity 130A	
			BEL FUSE INC	RST	T2A, 250V, Rated breaking capacity 100A	
			COOPER BUSSMANN LLC	SS-5	T2A, 250V, Rated breaking capacity 35A	
			DAS & SONS INTERNATIONAL LTD	385T series	T2A, 250V, Rated breaking capacity 35A	
			SHENZHEN LANSON ELECTRONICS CO LTD	SMT	T2A, 250V, Rated breaking capacity 35A	
7	8	Varistor (MOV2)	JOYIN CO LTD	JVR10S471K JVR14S471K 10N471K 14N471K	Maximum continuous voltage: 300Vac	cURus
			EPCOS (ZHUHAI FTZ) CO LTD	S14K300E2		
			WALSIN TECHNOLOGY CORP	SR471K14D SR471K10D		
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10112-V 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 INFORMATION INDUSTRY CO LTD	10D471K 14D471K		
7	9	Inductor (LF1)	BOAM/HAOPUWEI/ GLOBTEK/HEJIA	GTM91110P-LF1	130°C	NR
7	10	Inductor (LF2)	BOAM/HAOPUWEI/ GLOBTEK/HEJIA	GTM91110P-LF2	130°C	NR
7	11	Inductor (LF3)	BOAM/HAOPUWEI/ GLOBTEK/HEJIA	GTM91110P-LF3	130°C	NR
7	12	Inductor (LF4)	BOAM/HAOPUWEI/ GLOBTEK/HEJIA	GTM91110P-LF4	130°C	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
7	13	PFC Inductor (L1)	BOAM/HAOPUWEI/ GLOBTEK/HEJIA	405-0005	130℃	NR
7	14	Insulation tube	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR RSFR-H RSFR-HPF	600V, 125℃	cURus
			QIFURUI ELECTRONICS CO	QFR-h	600V, 125℃	
			DONGGUAN SALIPT CO LTD	SALIPT S- 901-300 SALIPT S- 901-600	Min. 300V, 125℃	
			SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	600V, 125℃	
			GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125℃	
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125℃	
7	15	X capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	CTX	Max. 1.0uF, 310Vac, 110℃, type X1 or X2	cURus
			Tenta Electric Industrial Co. Ltd.	MEX	Max. 1.0uF, 275Vac, 100℃, type X1 or X2	
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max. 1.0uF, 275Vac, 110℃, type X2	
			Okaya Electric Industries	RE series	Max. 1.0uF, 275Vac, 100℃, type X2	
			VISHAY Capacitors Belgium NV	F1772	Max. 1.0uF, 310Vac, 110℃, type X2	
			Dain Electronics Co., Ltd.	MPX, MEX and NPX	Max. 1.0uF, 275Vac, 100℃, type X2	
			Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Max. 1.0uF, 300Vac, 110℃, type X2	
			Shunde Da Hua Electric Co., Ltd.	HD-MKP	Max. 1.0uF, 275Vac, 105℃, type X2	
			Foshan Shunde Chuang Ge	MKP-X2	Max. 1.0uF, 275Vac, 105℃, type X2	
			Jiangsu Xinghua Huayu Co., Ltd.	MPX	Max. 1.0uF, 275Vac, 100℃, type X2	
			Hongzhi Enterprises Ltd.	MPX	Max. 1.0uF, 275Vac, 100℃, type X2	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
7,8	16	SMD Y-Capacitor (CY1, CY2, CY3, CY4, CY5, CY6, CY7) (CY7 is optional)	PANASONIC CORPORATION	FC series	Type Y2, max. 330pF, min. 250V, min. 85°C	cURus
			WALSIN TECHNOLOGY CORP	S242 series S252 series		
			MURATA MFG CO LTD	GC series GA series		
8	17	Optocoupler (U3, U4, U5)	LITE-ON Technology Corporation	LTV-817	Ext. Cr: min. 8.0 mm; DTI: min. 0.6 mm; Thermal cycling test. Max. operating temp.: 115°C.	cURus
			Fairchild Semiconductor Pte. Ltd.	FOD817C FOD817A H11A817X	Ext. Cr: min. 7.8 mm; DTI: min. 0.6 mm; Thermal cycling test. Max. operating temp.: 115°C	
			Vishay Semiconductor GmbH	TCLT1003	Ext. Cr: min. 8.0 mm; DTI: min. 0.4 mm; Thermal cycling test. Max. operating temp.: 100°C.	
			Everlight Electronics Co., Ltd.	EL817	Ext. Cr: min. 7.7 mm; DTI: min. 0.5 mm; Thermal cycling test. Max. operating temp.: 110°C.	
9	18	Isolation transformer (T1)	GlobTek/BOAM/HAO PUWEI	403-0054 for 12V-14V 403-0056 for 14.1V-17V 403-0053 for 17.1V-21V 403-0052 for 21.1V-30V 403-0055 for 30.1V-40V 403-0051 for 40.1V-55V	Class B with insulation system below, refer to illustrations No. 5 for details.	NR
9	18a	Insulation system	GLOBTEK INC	GTX-130-TM	Class B	cURus
			WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130		
			SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01		
9	19	Drive Transformer (T2)	GlobTek/BOAM/HAO PUWEI	403-0080	130°C	NR
10	20	Y-Capacitor (CY8)	TDK-EPC CORPORATION	CD	Type Y1, max. 1000pF, min. 250V, min. 85°C	cURus
			SUCCESS ELECTRONICS CO LTD	SE SB	Type Y1, max. 1000pF, min. 250V, min. 125°C	
			MURATA MFG CO LTD	KX	Type Y1, max. 1000pF, min. 250V, min. 125°C	
			WALSIN TECHNOLOGY CORP	AH	Type Y1, max. 1000pF, min. 250V, min. 125°C	
			JYA-NAY CO LTD	JN	Type Y1, max. 1000pF, min. 250V, min. 125°C	
			HAOHUA ELECTRONIC CO	CT7	Type Y1, max. 1000pF, min. 250V, min. 125°C	
			WELSON INDUSTRIAL CO LTD	WD	Type Y1, max. 1000pF, min. 250V, min. 125°C	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
<p>NOTES:</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, 3a&3b 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. Refer to Illustration No. 5 for details.

7.0 Illustrations

Illustration 1 - Model list

Standard Model Number For Open Frame Version:	Output Voltage	Minimum Load*	Maximum Load no Airflow	Maximum Load with 20CFM Airflow
GT(M)91110P24012-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	12V \equiv	0,2A	12,5A	20,0A
GT(M)91110P24015-X.X-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	15V \equiv	0,2A	10,0A	16,0A
GT(M)91110P24018-X.X-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	18V \equiv	0,2A	8,33A	13,3A
GT(M)91110P24024-X.X-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	24V \equiv	0,1A	6,25A	10,0A
GT(M)91110P24036-X.X-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	36V \equiv	0,1A	4,17A	6,7A
GT(M)91110P24048-X.X-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	48V \equiv	0,1A	3,12A	5,0A
GT(M)91110P24055-X.X-FA(W)-S or -HIOXX or -HOXXX or -HIXXX	55V \equiv	0,1A	2,72A	4,36A

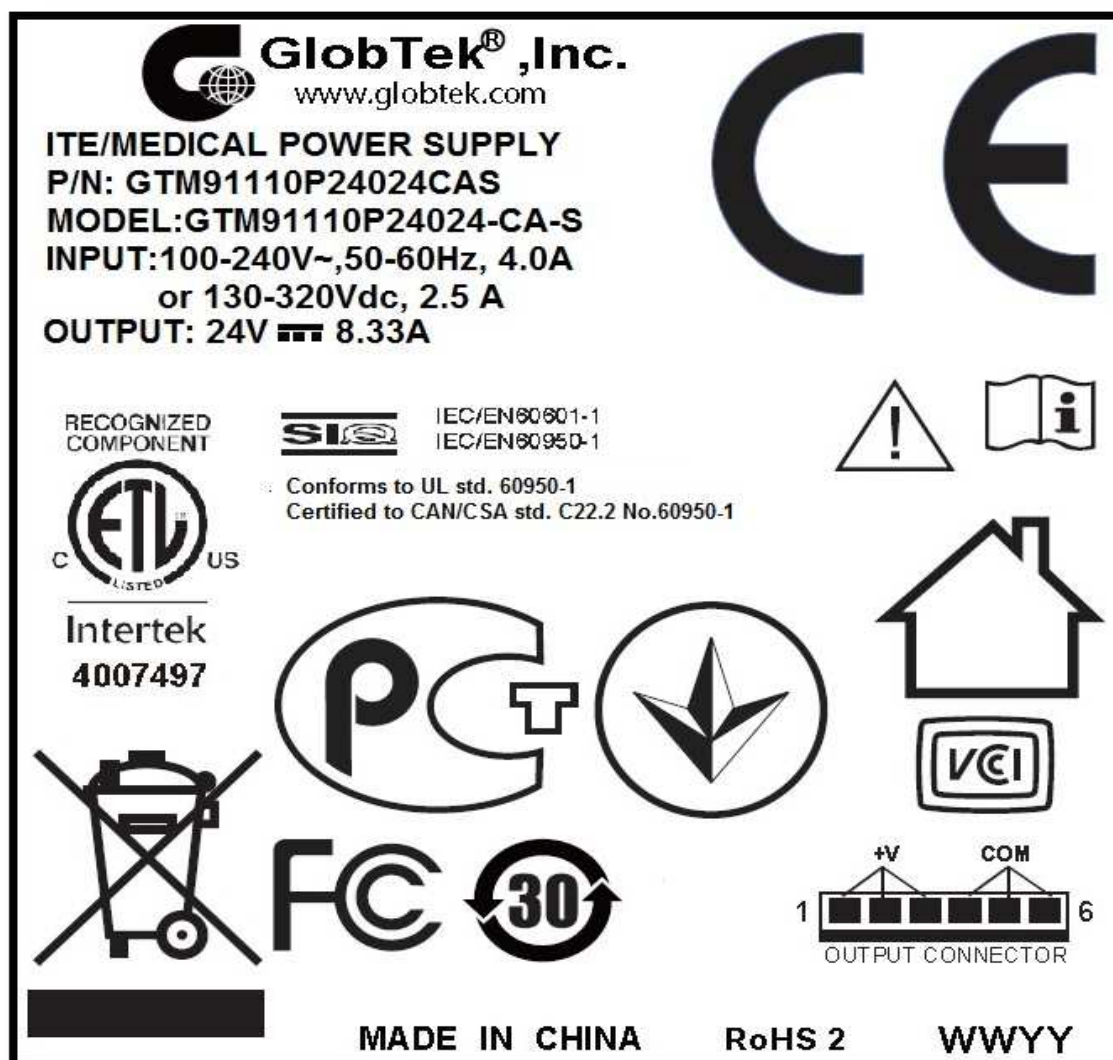
Standard Model Number For with Perforated Enclosure Version	Output Voltage	Minimum Load	Maximum Load no Airflow	Maximum Load with 20CFM Airflow
GT(M)91110P24012-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	12V \equiv	0,2A	6,7A	16,67A
GT(M)91110P24015-X.X-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	15V \equiv	0,2A	5,3A	13,38A
GT(M)91110P24018-X.X-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	18V \equiv	0,2A	4,4A	11,11A
GT(M)91110P24024-X.X-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	24V \equiv	0,1A	3,3A	8,33A
GT(M)91110P24036-X.X-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	36V \equiv	0,1A	2,2A	5,5A
GT(M)91110P24048-X.X-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	48V \equiv	0,1A	1,7A	4,17A
GT(M)91110P24055-X.X-CA(W)-S or -HIOXX or -HOXXX or -HIXXX	55V \equiv	0,1A	1,4A	3,64A

GT(M)	GLOBTEK series, means GT- or GTM
91110P	Family designator
24012	240W 12V output power and output voltage
‘Z’	‘Z’= ‘F’: Open frame and ‘Z’= ‘C’: Perforated enclosure
A(W)	Means A or W, ‘A’ for airflow for 240 W load and ‘W’ for models without protective earth (optional)
X.X	Output voltage deviation from standard model by subtracting X.X volt from standard output voltage, X.X not required to be added in model number for standard output voltage.
-S	Input header and output header connectors on board
-HIOXXX	Input and output wire harness. Where XXX can be from 000 to 500 to indicate harness length (maximum length for input and output harnesses is 500mm).
-HOXXX:	Input header connector on board and output wire harness. Where XXX can be from 000 to 500 to indicate harness length (maximum harness length for output is 500mm).
-HIXXX:	Input wire harness. Output header on board. Where XXX can be from 000 to 500 to indicate harness length (maximum harness length for input is 500mm).

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.



For Class I model

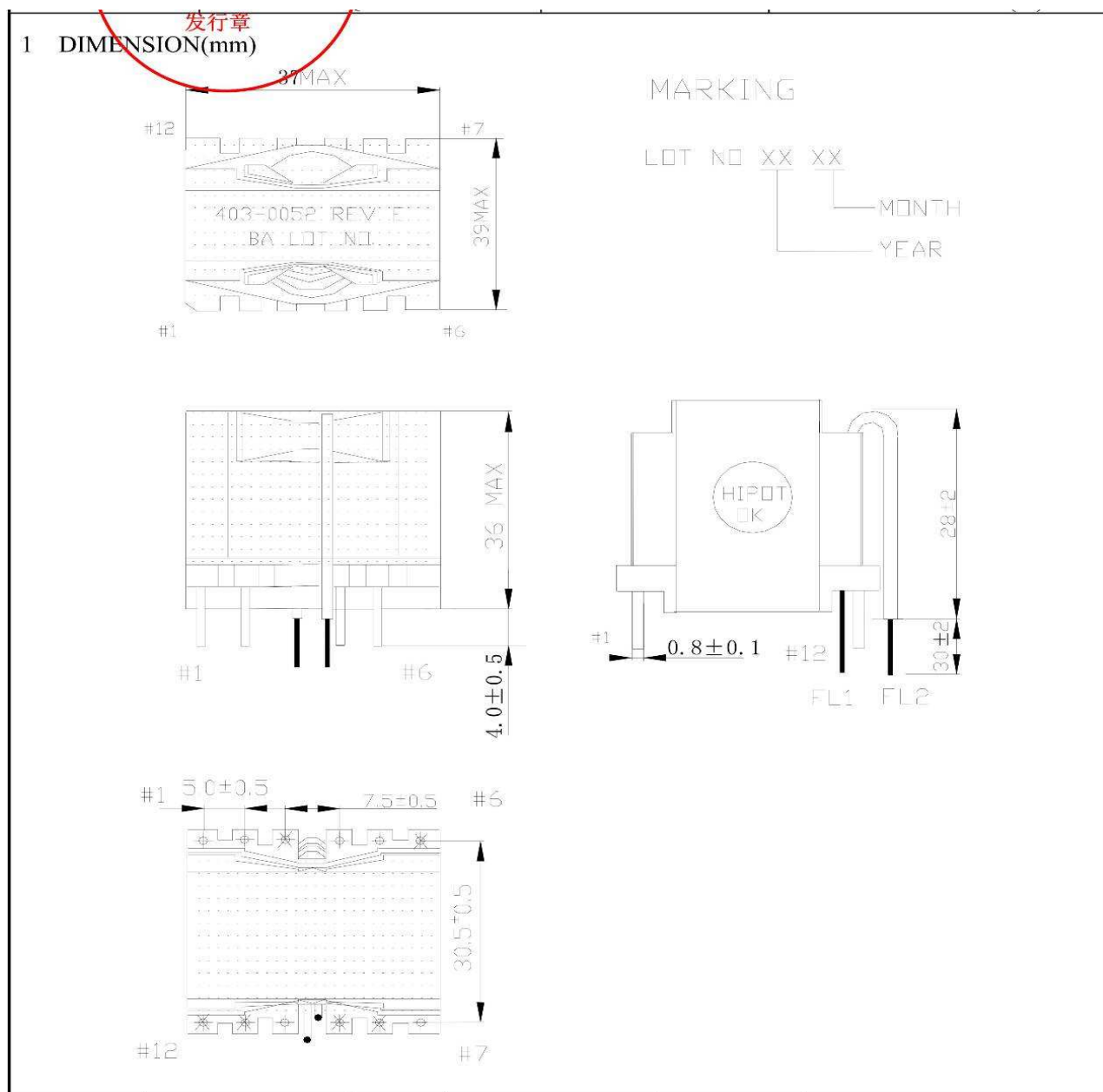


For Class II model



7.0 Illustrations

Illustration 5 - Specification for isolation transformer T1



8.0 Test Summary

Evaluation Period	2014-08-11 ~ 2014-08-19	Project No.	140800196SHA
Sample Rec. Date	11-Aug-2014	Condition	Prototype
Sample ID	0140811-15-001		
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
Earthing resistance test	2.6.3
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 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

Grounding Continuity 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 accessible enclosure with metal foil	1500Vac	1 s
Between L/N and secondary output for Class II models only	3000Vac	1 s

11.1 Dielectric Voltage Withstand Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

Class I models covered by this Report.

The following changes are in compliance with the declaration of Section 8.1:

[illegible]