


1.0 Reference and Address			
Report Number	161200823SHA-001	Original Issued:	24-Mar-2017
		Revised:	None
Standard(s)	Class 2 Power Units [UL 1310:2011 Ed.6 +R:12Dec2014]		
	Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]		
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
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Phone	(201)784-1000 Ext.253	Phone	86 512 6279 0301 Ext.189
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2.0 Product Description	
Product	Class 2 Power Supply
Brand name	
Description	Products covered by this report are class 2 power supply module, with appliance inlet for connecting of a detachable power supply cord, for indoor use only. Desktop power supply is provided with suitable external enclosure, which is Class I or Class II apparatus. Two pieces of outer enclosure are enclosed with ultrasonic welding . The product is not intended to use in the environment which altitude exceed 5000m. These power supplies have an output current rating of 5A or less and are classified as Inherently Limited power sources.
Models	GT followed by M, - or H; followed by 96900P; followed by 01 to 90; followed by 12 to 54; followed by -T2, -T2A, -T3, -T3TAB or -T3A; may be followed by six characters. or GT followed by M, - or H; followed by 96900P; followed by 01 to 90; followed by 12 to 54; followed by .1 to .9; followed by -T2, -T2A, -T3, -T3TAB or -T3A; may be followed by six characters.
Model Similarity	GT*96900P****; The 1st “*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety. The 2nd “*” denotes the rated output wattage designation, which can be “01” to “90”, with interval of 1 and “-” can be omitted. The 3rd “*” denote the standard rated output voltage designation, which can be “12” to “54” or “12.0” to “54.0” in 0.1V increments. The 4th “*” =-T2 means desktop class II with C8 AC inlet =-T2A means desktop class II with C18 AC inlet =-T3 means desktop class I with C14 AC inlet =-T3TAB means desktop class I with C14 AC inlet and housing with a tab. =-T3A means desktop class I with C6 AC inlet  The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.
Ratings	Input:100-240V~, 50-60Hz, 1.5A See section 7.0, Illustration 1 for details
Other Ratings	N/A

### 3.0 Product Photographs

Photo 1 - External view



Photo 2 - External view





### 3.0 Product Photographs

**Photo 3 - External view**



**Photo 4 - External view**

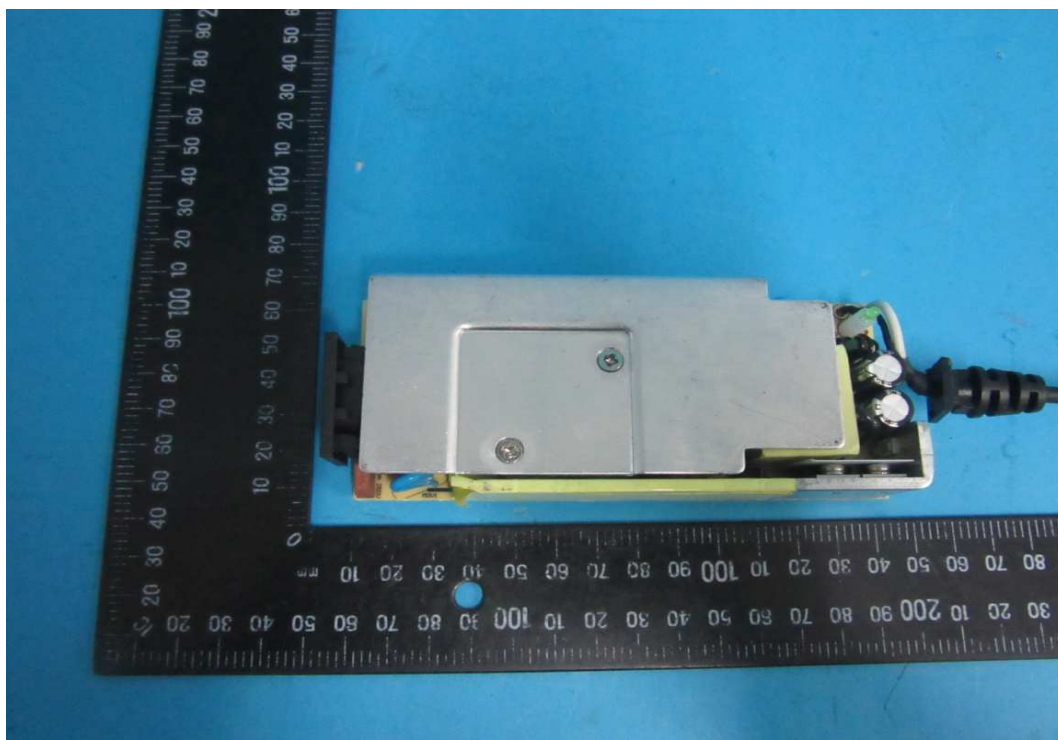


### 3.0 Product Photographs

**Photo 5 - Internal view (Class II)**



**Photo 6 - Internal view (Class II)**





### 3.0 Product Photographs

Photo 7 - Internal view (Class II)

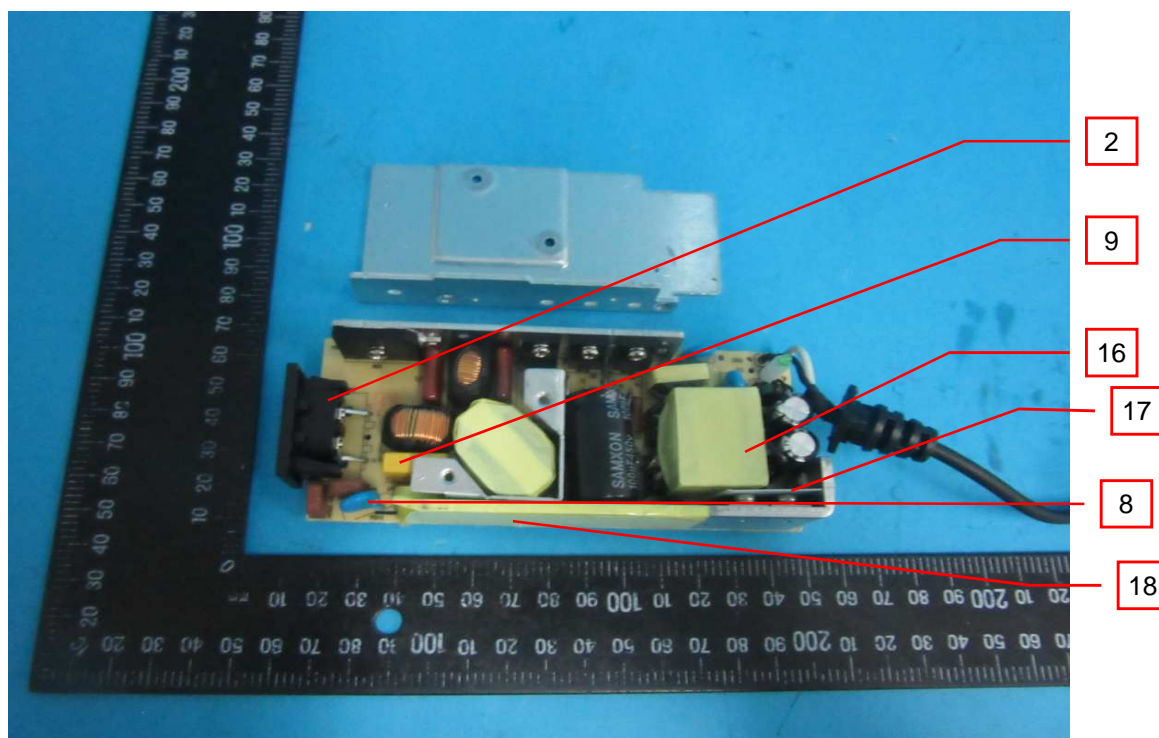
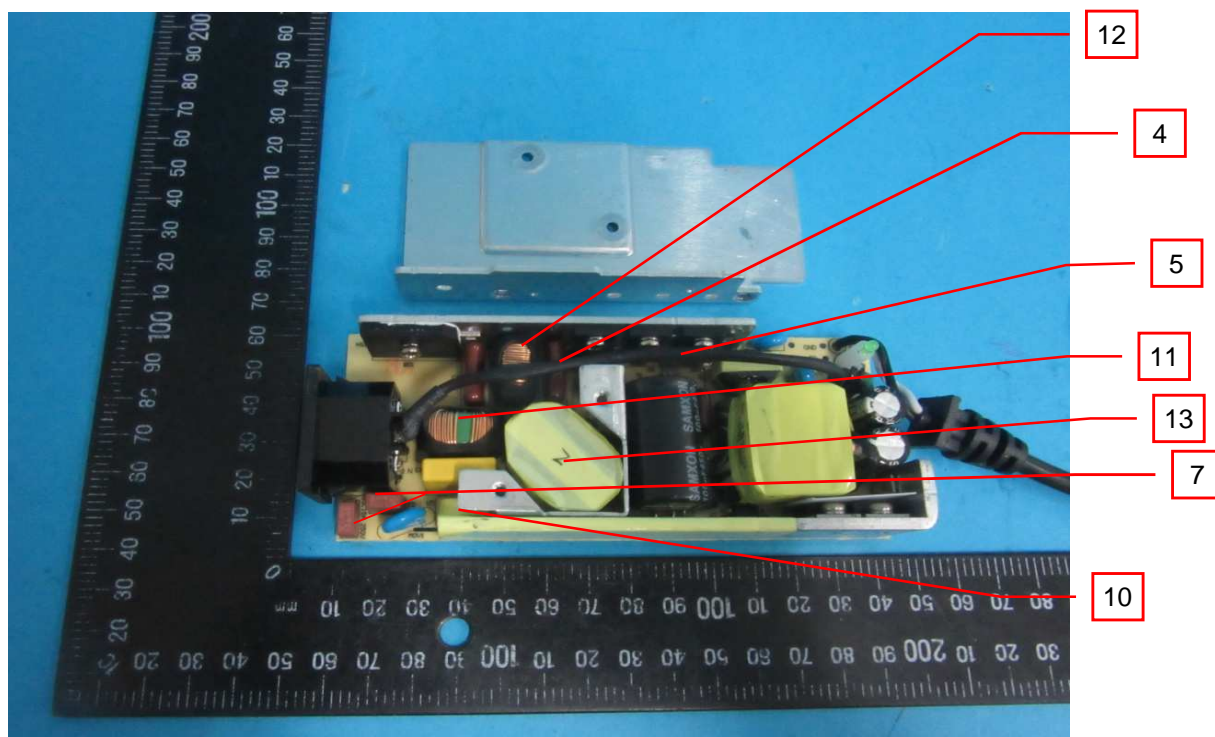


Photo 8 -Internal view (Class I)



### 3.0 Product Photographs

Photo 9- Internal view (Class II)

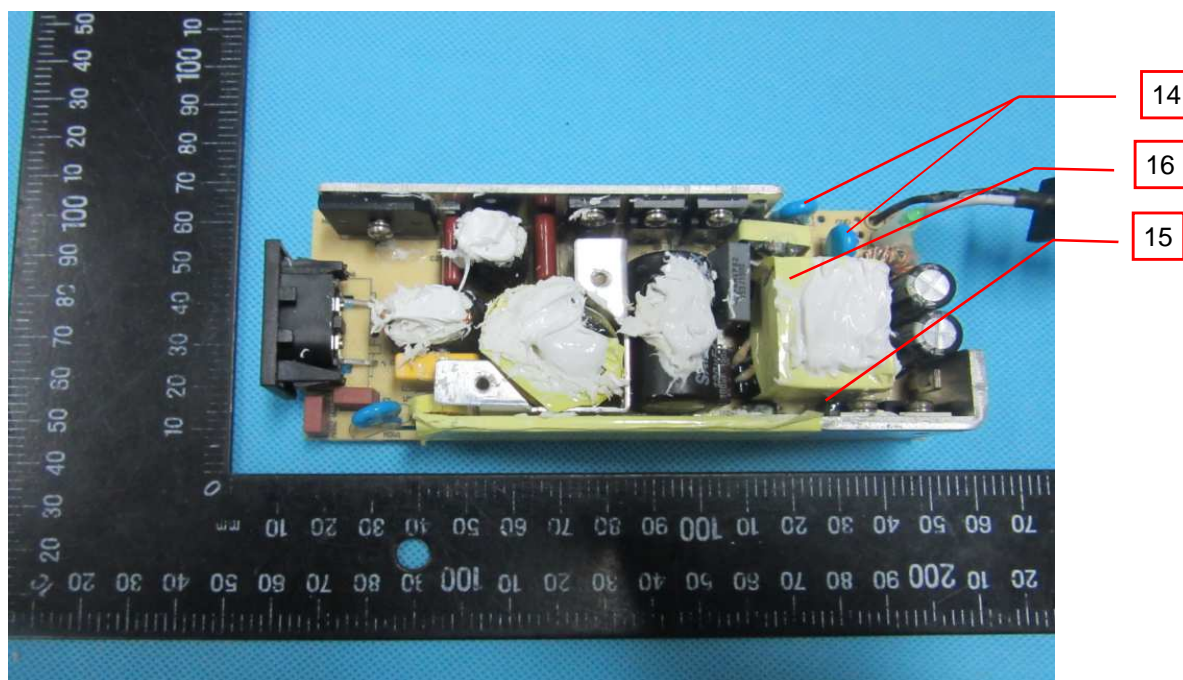
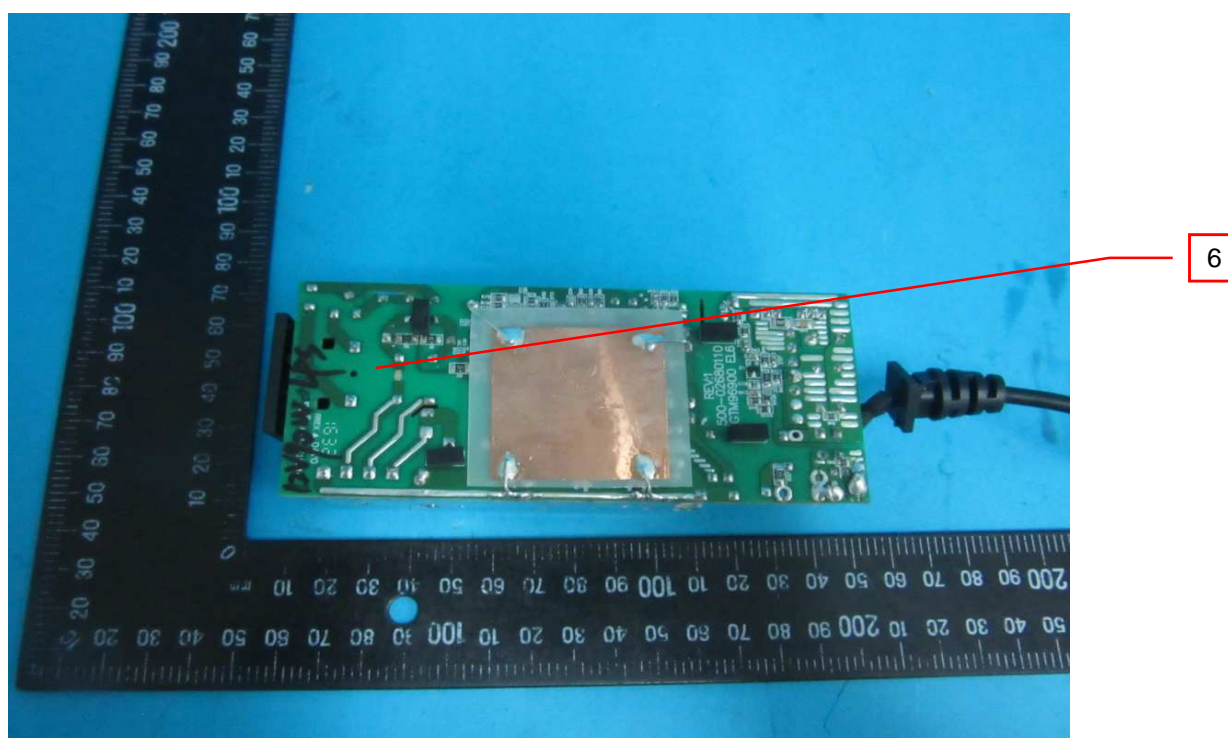


Photo 10 - PCB





### 3.0 Product Photographs

Photo 11 - PCB

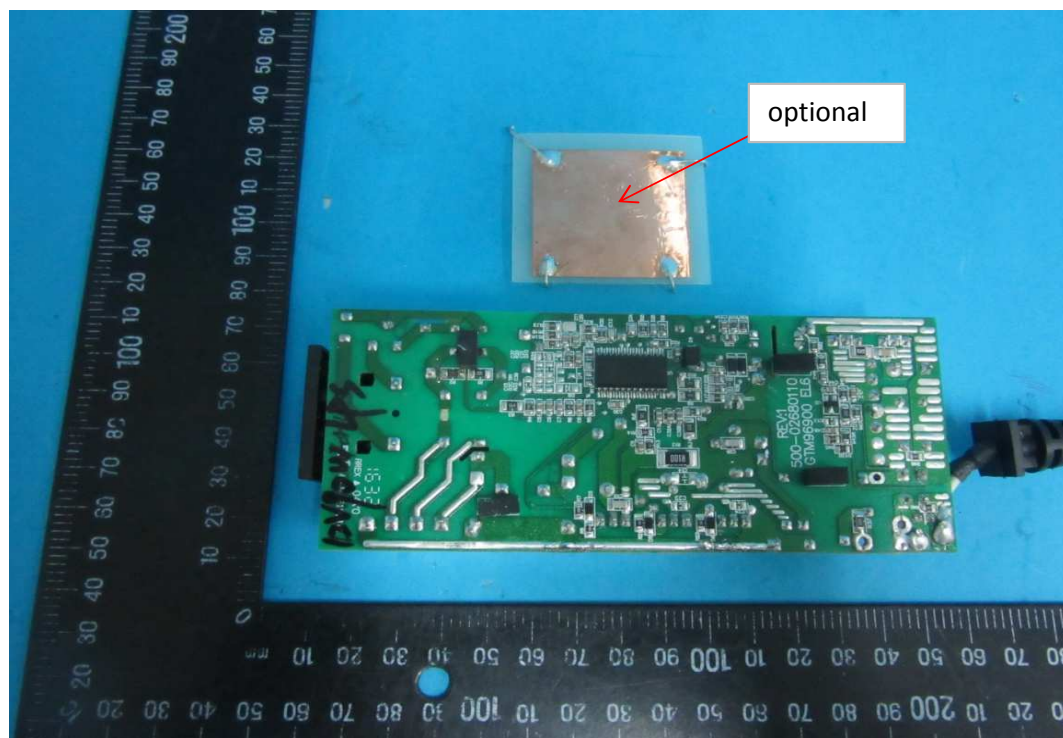


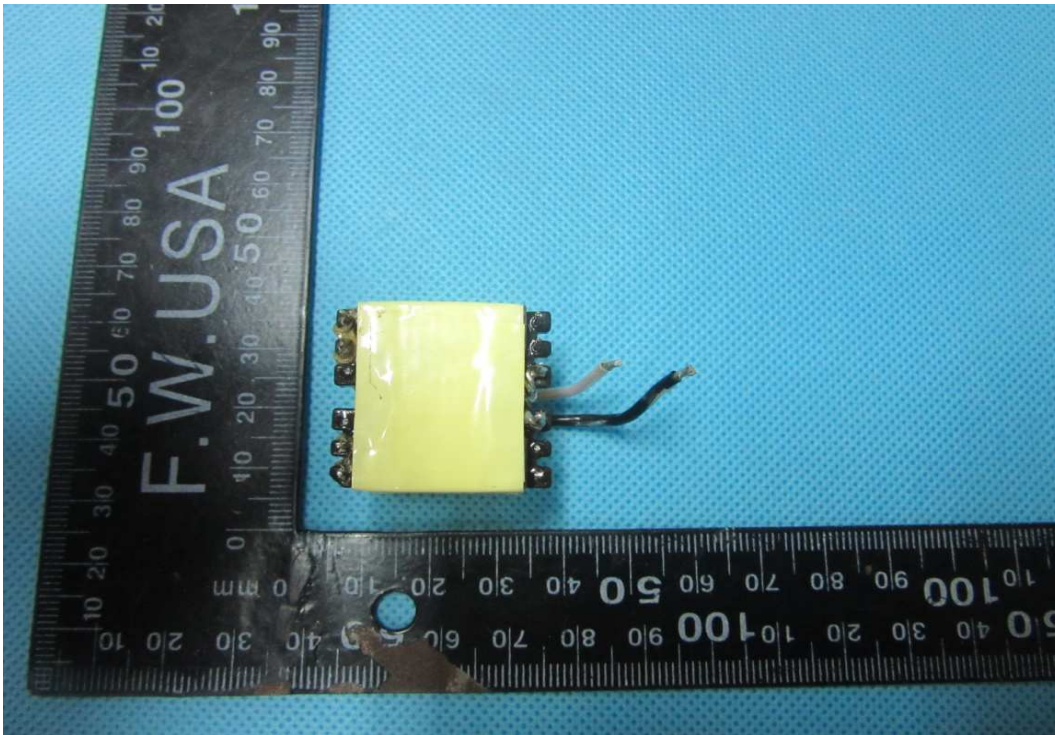
Photo 12 - Transformer





### 3.0 Product Photographs

Photo 13 - Transformer



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	Plastic enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X	Min. V-1 at 1.5 mm thickness, 105°C	cURus
				SE1		cURus
				CX7211	Min. V-0 at 1.5 mm thickness, 90°C	cURus
				EXCY0098		cURus
				SE100	Min. V-0 at 1.5 mm thickness, 95°C	cURus
				945	Min. V-0 at 1.5 mm thickness, 120°C	cURus
				HF500R	Min. V-0 at 1.5 mm thickness, 125°C	cURus
			TEIJIN CHEMICALS LTD	LN-1250P	Min. V-0 at 1.5 mm thickness, 115°C	cURus
				LN-1250G		cURus
7	2	AC inlet for Class I model or Class II model (alternative)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac Standard sheet: C6	cURus
			Rich Bay Co., Ltd.	R-30790		cURus
				R-307		cURus
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-02		cURus
			TECX-UNIONS Technology Corporation	TU-333 series		cURus
			Rong Feng Industrial Co., Ltd.	RF-190		cURus
			Inalways Corporation	0724		cURus
			Kunshan Dlk Electronics Technology Co., Ltd	CDJ-2		cURus
			SHENZHEN DELIKANG ELECTRONICS TECHNOLOGY CO LTD	CDJ-2		cURus
			ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A04-002		cURus
			Zhejiang LECI Electronics Co., Ltd.	DB-8		cURus
			Rich Bay Co., Ltd.	R-201SN90		cURus
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01		cURus
			TECX-UNIONS Technology Corporation	SO-222 series		cURus

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>
			Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac Standard sheet: C8	cURus
			Inalways Corporation	0721 series		cURus
			Kunshan Dlk Electronics Technology Co., Ltd	CDJ-8		cURus
			ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A03-005		cURus
			Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac Standard sheet: C14	cURus
			Rich Bay Co., Ltd.	R-301SN		cURus
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03		cURus
			TECX-UNIONS Technology Corporation	TU-301-S		cURus
				TU-301-SP		cURus
			Rong Feng Industrial Co., Ltd.	SS-120		cURus
			Inalways Corporation	0711		cURus
			Zhe Jiang Bei Er jia	ST-A01-003J		cURus
			Rong Feng Industrial Co.,Ltd	SS-120A	10A, 250Vac Standard sheet: C18	cURus
2	3	Output cord	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1185	Min. 20AWG, min. 300Vac, min. 80°C	cURus
				2464		cURus
				2468		cURus
				1015		cURus
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1185	Min. 20AWG, min. 300Vac, min. 80°C	cURus
				2464		cURus
				2468		cURus
				1015		cURus
				SPT-1	Min. 20AWG, min. 300Vac, min. 105°C	cURus
				SPT-2		cURus
			SUZHOU YEMAO ELECTRONIC CO LTD	1185	Min. 20AWG, min. 300Vac, min. 80°C	cURus
				2464		cURus
				2468		cURus
				1015		cURus
			SUZHOU DIOUDE ELECTRONICS CO LTD	SPT-1	Min. 20AWG, min. 300Vac, min. 105°C	cURus
				SPT-1		cURus



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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>
			Various	Various	Min. 20AWG, min. 300Vac, min. 80°C, performance parameter shall be equal to 1185, 2464, 2468, SPT-1 or SPT-2.	cURus
8	4	Earthing wire for class I model only	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
				1185		cURus
				3271		cURus
				3266		cURus
				1569		cURus
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
				1185		cURus
				1569		cURus
			DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
				1569		cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
				1185		cURus
				1569		cURus
			SHENG YU ENTERPRISE CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
			KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
				1185		cURus
				3271		cURus
				3266		cURus
				1569		cURus
			SUZHOU YEMAO ELECTRONIC CO LTD	1015	Min. 18AWG, min. 300Vac, min. 80°C	cURus
				1007		cURus
				1185		cURus
			Various	Various	Min. 18AWG, min. 300Vac, min. 80°C	cURus
8	5	Insulating tube used on Class I AC inlet pin or heatsink (Heatsink using insulating tube)	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C	cURus
				RSFR-H		cURus
				RSFR-HPF		cURus
			QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	cURus
			DONGGUAN SALIPT CO LTD	SALIPT S-901-300	300V, 125°C	cURus
				SALIPT S-901-600	600V, 125°C	cURus

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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>
			GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+)	600V, 125°C	cURus
				K-2 (CB)	300V, 125°C	cURus
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	cURus
10	6	PCB material	WALEX ELECTRONIC (WUXI) CO LTD	T2	Min 1.6 mm thickness, min. V-0, 130°C, Fully comply with UL 796.	cURus
			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1		cURus
			CHEERFUL ELECTRONIC	02		cURus
				03		cURus
				03A		cURus
			DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2		cURus
			SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1		cURus
			SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0		cURus
				04V0		cURus
			BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A		
				DGV0-3A		cURus
8	7	Fuse (F1, F2)	SHENZHEN TONGCHUANGXI N ELECTRONICS CO LTD	TCX		cURus
			Various	Various		cURus
			Conquer Electronics Co., Ltd.	MST		cURus
			Ever Island Electric Co., Ltd. and Walter Electric	2010		cURus
			Bel Fuse Ltd.	RST		cURus
			Cooper Bussmann LLC	SS-5		cURus
			Walter Electronic Co. Ltd.	ICP series	T3.15A, 250Vac, interrupting rating 50A	cURus

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			Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 series	T3.15A, 250Vac, interrupting rating 50A	cURus
			Sun Electric Co.	5T	T3.15A, 250Vac, interrupting rating 100A	cURus
			Bel Fuse Ltd.	5ST	T3.15A, 250Vac, interrupting rating 35A	cURus
			Das & Sons International Ltd.	385T series	T3.15A, 250Vac, interrupting rating 35A	cURus
			Shenzhen Lanson Electronics Co. Ltd.	SMT	T3.15A, 250Vac, interrupting rating 35A	cURus
7	8	Varistor (MOV1) (optional)	JOYIN CO LTD	07N471K	Maximum continuous voltage: 300Vac	cURus
				10N471K		cURus
				14N471K		cURus
			CENTRA SCIENCE CORP	07N471K		cURus
				10N471K		cURus
				14N471K		cURus
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR07471K		cURus
				TVR10471K		cURus
				TVR14471K		cURus
			SUCCESS ELECTRONICS CO LTD	SVR07D471K		cURus
				SVR10D471K		cURus
				SVR14D471K		cURus
			CERAMATE TECHNICAL CO LTD	GNR07D471K		cURus
				GNR10D471K		cURus
				GND14D471K		cURus
			BRIGHTKING (SHENZHEN) CO LTD	07D471K		cURus
				10D471K		cURus
				14D471K		cURus
			LIEN SHUN ELECTRONICS CO LTD	07D471K		cURus
				10D471K		cURus
				14D471K		cURus
			HONGZHI ENTERPRISES LTD	HEL-07D471K		cURus
				HEL-10D471K		cURus
				HEL-14D471K		cURus
			GUANGXI NEW FUTURE INFORMATION INDUSTRY CO LTD	07D471K		cURus
				10D471K		cURus
				14D471K		cURus
			Cheng Tung Industrial Co., Ltd.	CTX	Max. 0.22µF, 310Vac, 110°C, type X2 or X1	cURus
			Tenta Electric Industrial Co. Ltd.	MEX	Max. 0.22µF, 275Vac, 100°C, type X2 or X1	cURus
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max. 0.22µF, 275Vac, 110°C, type X2 or X1	cURus



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7	9	X capacitor (CX1) (Optional)	Okaya Electric Industries	RE series	Max. 0.22μF, 275Vac, 100°C, type X2 or X1	cURus
			VISHAY Capacitors Belgium NV	F1772	Max. 0.22μF, 310Vac, 110°C, type X2 or X1	cURus
			Winday Electronic Industries Co., Ltd.	MPX	Max. 0.22μF, 275Vac, 100°C, type X2 or X1	cURus
			Dain Electronics Co., Ltd.	MPX	Max. 0.22μF, 275Vac, 100°C, type X2 or X1	cURus
				MEX		cURus
				NPX		cURus
			Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Max. 0.22μF, 310Vac, 110°C, type X2 or X1	cURus
			Shunde Da Hua Electric Co., Ltd.	HD-MKP	Max. 0.22μF, 250Vac, 105°C, type X2 or X1	cURus
8	10	Line filter (LF1) (Optional)	GlobTek/ZhongTong/HEJIA/BOAM/	LF001	Class A	NR
8	11	Line filter LF2 (Optional)	GlobTek/ZhongTong/HEJIA/BOAM/	LF026	Class A	NR
8	12	Line filter (L1) (Optional)	GlobTek/ZhongTong/HEJIA/BOAM/	LF003	Class A	NR
8	13	PFC Chock (L2) (Optional)	GlobTek/ZhongTong/HEJIA/BOAM/	LF028	Class A	NR
9	14	Y-Capacitor (CY1, CY2) (optional)	SUCCESS ELECTRONICS CO LTD	SE	Type Y1, min. 250V, min. 125°C, max. 2200pF	cURus
				SB		cURus
			TDK-EPC CORPORATION	CD		cURus
			MURATA MFG CO LTD	KX		cURus
			WALSIN TECHNOLOGY CORP	AH		cURus
			JYA-NAY CO LTD	JN		cURus
			HAOHUA ELECTRONIC CO	CT7		cURus

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			JERRO ELECTRONICS CORP	JX-series		cURus
9	15	Optocoupler (U2)	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
			Everlight Electronics Co., Ltd.	EL817	Ext. Cr: min. 7.7 mm; DTI: min. 0.5 mm; Thermal cycling test. Max. operating temp.: 110°C.	cURus
9	16	Transformer (T1)	GlobTek/ZhongTong/BOAM	TF047	Output voltage range:12.0V-13.4V; Class B with insulation system below.	NR
				TF075	Output voltage range:13.5V-14.9V; Class B with insulation system below.	NR
				TF048	Output voltage range:15.0V-16.9V; Class B with insulation system below.	NR
				TF076	Output voltage range:17.0V-18.9V; Class B with insulation system below.	NR
				TF072	Output voltage range:19.0V-21.3V; Class B with insulation system below.	NR
				TF077	Output voltage range:21.4V-23.9V; Class B with insulation system below.	NR
				TF049	Output voltage range:24.0V-27.4V; Class B with insulation system below.	NR
				TF078	Output voltage range:27.5V-31.4V; Class B with insulation system below.	NR
				TF073	Output voltage range:31.5V-36.0V; Class B with insulation system below.	NR
				TF079	Output voltage range:36.1V-41.9V; Class B with insulation system below.	NR
				TF050	Output voltage range:42.0V-48.0V; Class B with insulation system below.	NR
				TF074	Output voltage range:48.1V-54.0V; Class B with insulation system below.	NR
9	16a	Insulation system	GLOBTEK INC	GTX-130-TM	Class 130(B)	cURus
			WUXI ZHONGTONG ELECTRONICS CO LTD	ZT-130		cURus
			SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01		cURus

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9	16b	Magnet wire (Primary)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	130°C	cURus
			JUNG SHING WIRE CO LTD	UEW-4		cURus
				UEY-2		cURus
			JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130		cURus
			CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130		cURus
			WUXI JUFENG COMPOUND LINE CO LTD	2UEWB		cURus
			JIANGSU DARTONG M & E CO LTD	UEW		cURus
			SHANDONG SAINT ELECTRIC CO LTD	UEW/130		cURus
9	16c	Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	Min.130°C	cURus
				1350T-1		cURus
				44		cURus
			BONDTEC PACIFIC CO LTD	370S		cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ		cURus
				CT		cURus
				WF		cURus
			JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A		cURus
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX		cURus
			CHANG CHUN PLASTICS CO LTD	T375J		cURus
				T375HF		cURus



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9	16d	Bobbin	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0.45 mm min.	cURus
			HITACHI CHEMICAL CO LTD	CP-J-8800		cURus
9	16e	Triple-insulated wire (Secondary winding)	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Reinforced Insulation, rated 130°C (Class B), 1.41 kVolts peak for Information Technology;	cURus
			COSMOLINK CO LTD	TIW-M		cURus
			FURUKAWA ELECTRIC CO LTD	TEX-E		cURus
			TOTOKU ELECTRIC CO LTD	TIW-2		cURus
7	17	Mylar Insulating sheet used between the transformer and secondary D53,D54	TORAY INDUSTRIES INC	Lumirror H10	VTM-2, min. 0.4 mm thickness, 105°C	cURus
			SKC CO LTD	SH71S	VTM-2, min. 0.4 mm thickness, 105°C	cURus
			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	cURus
			SABIC INNOVATIVE PLASTICS US L L C	FR60 series	V-0, min. 0.4 mm thickness, 130°C	cURus
				FR63 series		cURus
				FR65 series		cURus
				FR7 series		cURus
				FR700 series		cURus
			MIANYANG LONGHUA FILM CO LTD	PP-BK-20	VTM-0, min. 0.4 mm thickness, 80°C	cURus
				PP-BK-17		cURus
				PP-BK-18		cURus
			CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP WT-10 series	VTM-0, min. 0.4 mm thickness, 110°C	cURus
			CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860B	VTM-0, min. 0.4 mm thickness, 80°C	cURus
			3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1		cURus
				1350T-1		cURus

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7, 8	18	Insulating tape wrapping around the heatsink (Use insulation tape will not use Insulating tube)	BONDTEC PACIFIC CO LTD	370S	Min.130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ		cURus
				CT		cURus
			JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A		cURus
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX		cURus

NOTES:

- 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.
- 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.
- 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.

<b>5.0 Critical Unlisted CEC Components</b>
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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.

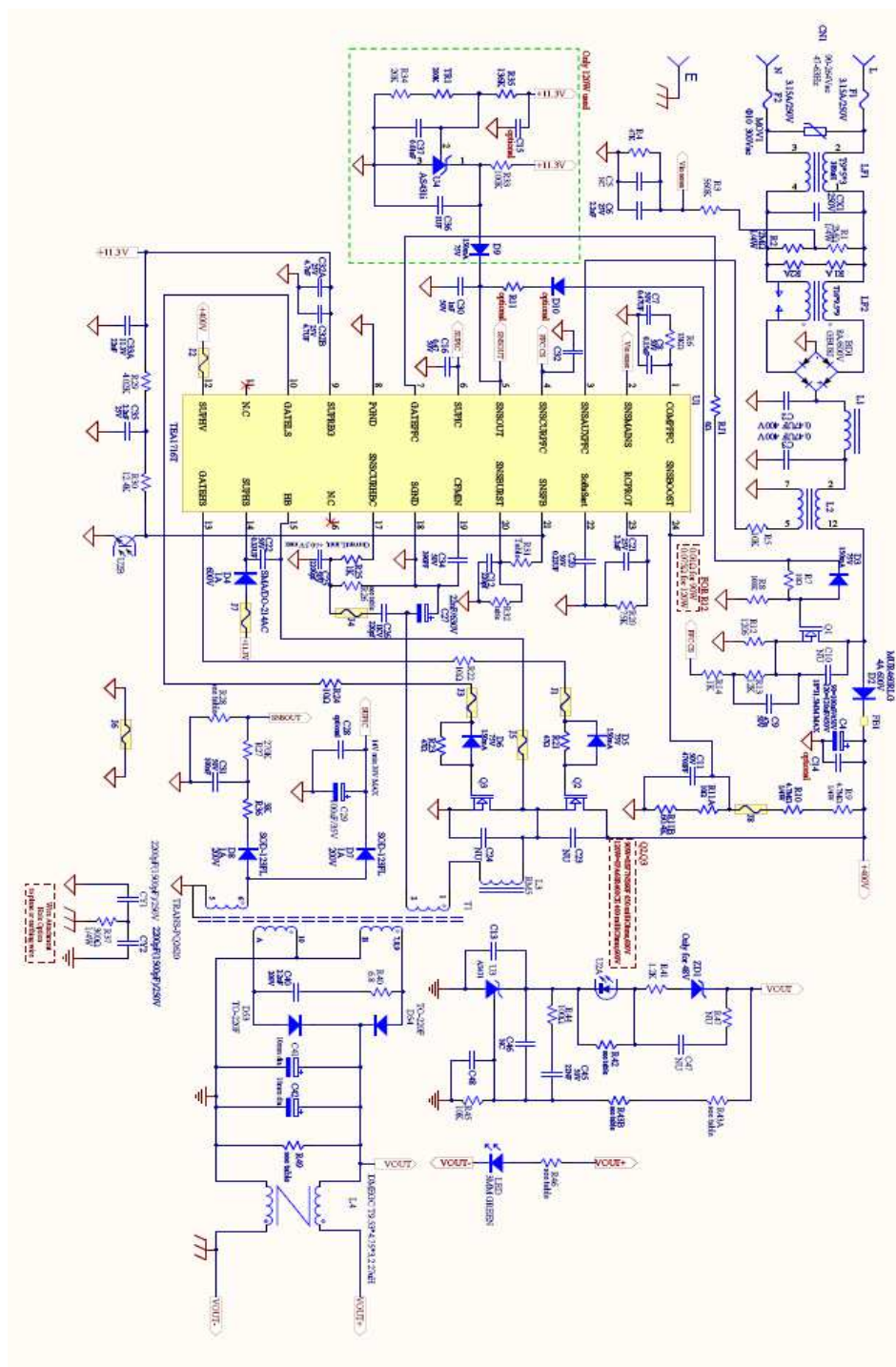
1. Spacing - In primary circuits, 4.8 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 4.8 mm minimum between such current-carrying parts and low voltage isolated circuits.
2. Mechanical Assembly - Components 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 not 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 and earthing wire for Class I models. All wiring is minimum 20 AWG, with a minimum rating of 300V, 80°C.
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 ↕	Output Voltage ↕	Max. output current ↕	Max. output power ↕
GT*96900P**-T2/T2A/T3/T3A/T3TAB*↕	12-54Vdc↕	5.0A↕	90W↕

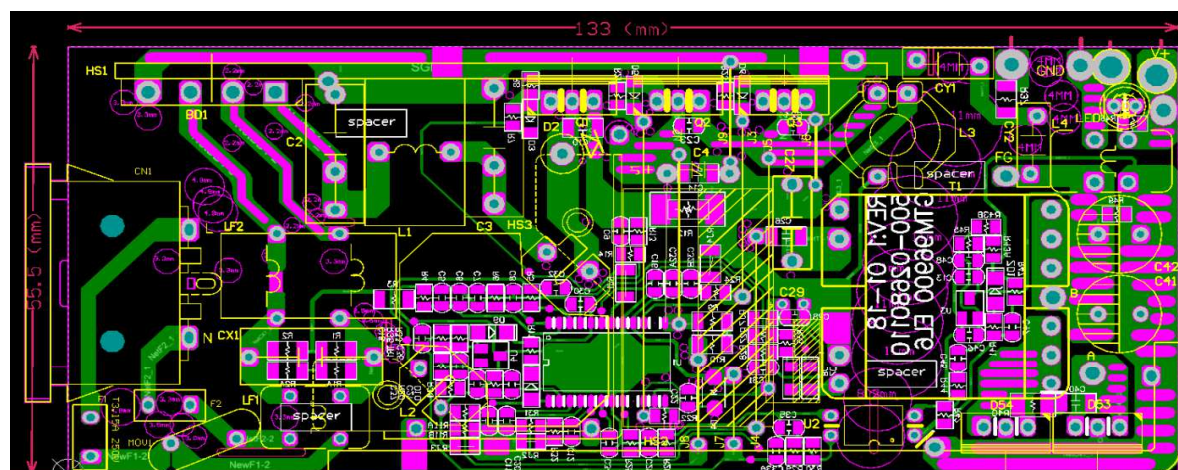
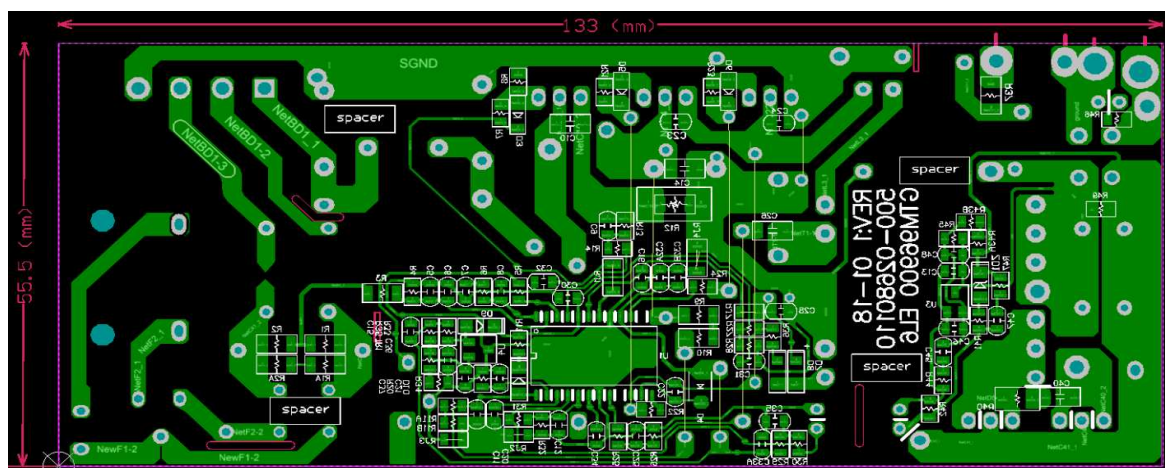
### Illustration 2 - Schematics





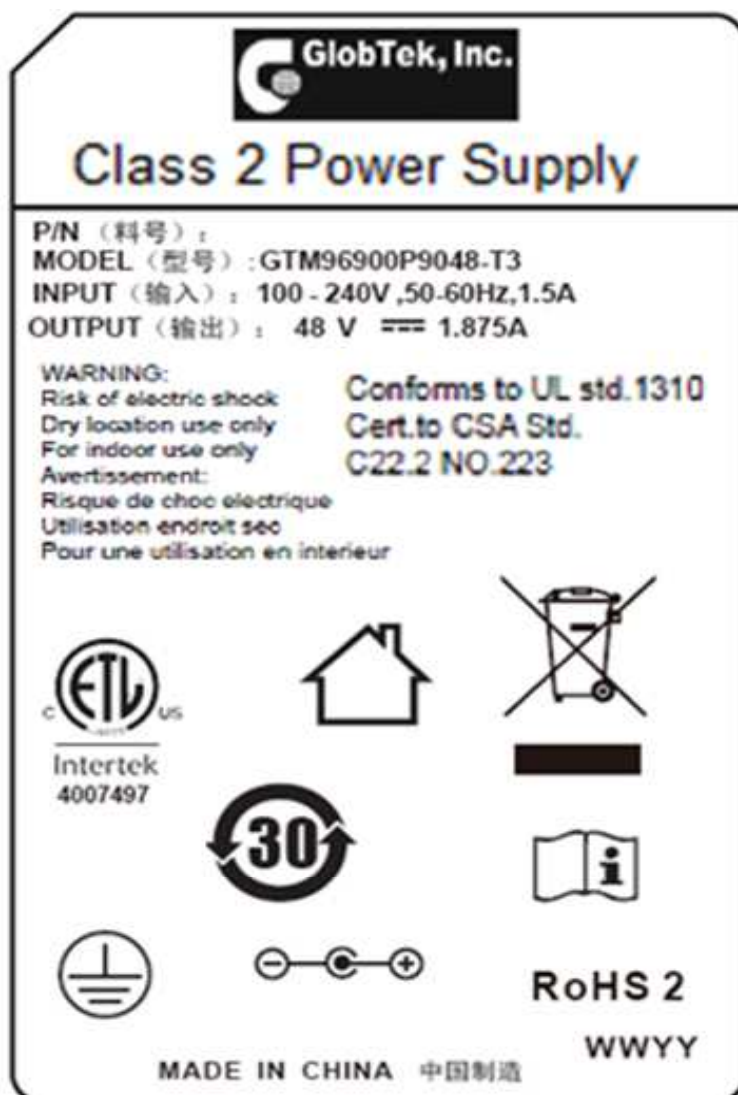
## 7.0 Illustrations

Illustration 3 - PCB LAYOUT



## 7.0 Illustrations

Illustration 4 - Marking



Note:

1. The marking plates of the other models listed in this report are identical with below except model name and output parameter.
2. The date code of manufacturing is presented as WWYY, YY = manufacturing year, WW = the week of the manufacturing year, e.g. 0217 = The second week of 2017.

## 8.0 Test Summary

Evaluation Period	15-Dec-2016 to 22-Feb-2017			Project No.	161200823SHA
Sample Rec. Date	12-Dec-2016	Condition	Prototype	Sample ID.	0161212-41-001~018
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				

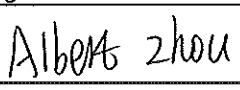
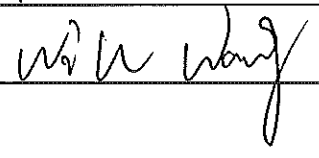
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed:

Test Description	Class 2 Power Units [UL 1310:2011 Ed.6 +R:12Dec2014]	Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]	Polymeric Materials - Use In Electrical Equipment Evaluations [UL 746C:2004 Ed.6 +R:18Jul2016]
Plug Discharge and Plug Energy Stored Test	-	4.6.2.7	-
Leakage Current Test	26	6.6	-
Leakage Current Test and Dielectric Voltage Withstand Test After Humidity Exposure	27	-	-
Maximum Output Voltage Test	28	6.3.1	-
Maximum Input Test	29	6.3.2	-
Output Current and Power Test	30	6.3.4	-
Full-Load Output Current Test	32	6.3.3	-
Normal Temperature Test	33	6.4	-
Dielectric Voltage-Withstand Test	34	6.5	-
Abnormal Tests	39	6.8	-
Tests on Insulating Materials	40	4.9	-
Strain Relief	41	-	-
Push-Back Relief	42	-	-
Abuse Tests	46	-	-
Secondary Circuit Protection	-	6.7	-
Drop and Impact	-	6.9	-
Strain Relief and Blade Retention	-	6.10	-
Securement of components	-	6.12	-
Insulating Material	-	6.14	-
Deformation (non-metallic enclosures)	-	6.16	-
Mold-Stress Relief Distortion	-	-	29
Strain Relief Test after Mold-Stress Relief Distortion	-	-	31

## 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:	Albert Zhou	Reviewed by:	Will Wang
Title:	Engineer	Title:	Supervisor
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	Class 2 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 and/or revisions.

### 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	3000Vac	1 s

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

ED 16.3.15 (20-Apr-17) Mandatory