

RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address							
Report Number	150702593SHA-001	Original Issued:	14-Aug-2015	Revised: None			
Standard(s)	ANSI/AAMI ES60601-1; A1 Issued: 2006/03/09: 2005 Version Medical Electrical Equipment, Part 1: General Requirements for Basic Safety and Essential Performance; with AMD 1; 2012/11/08 & CAN/CSA-C22.2 No.60601-1:14, Third Edition Issued: 2014/03/01 - Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance						
Applicant	GlobTek, Inc.		Manufacturer	GlobTek (Suzhou) Co., Ltd.			
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2.0 Product D	Description
Product	Medical Power Supply
Brand name	GlobTek, Inc.
Description	Product covered by this report is medical power supply module, which can be used as a part of medical equipment. The different models are corresponding to two structure types respectively. One is power adapter model, which can be used with detachable power supply cord. Different appliance inlets can be interchangeable on the device, which can provide with earthing connection or not. Protective earthing connection to secondary circuit by internal wiring is optional, so it can be Class I or Class II construction. Both two constructions are in consideration in this report. Two pieces of outer enclosure are enclosed with screws. The other one is open frame power supply board which also provides a protective earth bonding terminal on the PCB board. The installation and use for the insulation construction shall be finally determined in the end product. Models GTM43004P-12016-4.0-T3, GTM43004P-508.9-3.9-T3 and GTM43004P-12048-12.0-T3 are tested as typical models. Model GTM43004P-12024-T2 has two structures, one is same as the other series models, the different has a surge arrester VT1 and use a bigger varistor for 4kV surge test of EMC. Different transformer types are alternative, which are identical in same construction except different routing of secondary lead wires and shield foil. All the types are designed for continuous operation and no applied part is defined. The insulation construction of EUT is evaluated as 2MOPP in this report.
Models	GT*43004P-***-**
Model Similarity	GT*43004P-***-** The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" part denotes the rated output wattage designation, which can be "01" to "120", with interval of 1, two digitals for 01-99W, three digitals for 100-120W. The 3rd "*" part denotes the standard rated output voltage designation, which can be "8.9", "16", " 24", "35" and "48". The 4th "*" part is optional, which can be "-0.1" to "-12.9" 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, with a range of 5-48 volts. The 5th "*" part can be 'F' to denote open frame power supply model or 'T' to denote power adapter model. The 6th "*" part can be '2' to denote Class II model, or '3' or '3A' to denote two types of Class I models with different appliance inlets when the 5th "*" part is 'T'. Otherwise, the 6th "*" part is blank when the 5th "*" part is 'F'.
Ratings	Input: 100-240V~, 50-60Hz, 2.0A; Output: Refer to illustration No.1 for details.
Other Ratings	N/A

2.0 Product	Description
	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.
Conditions of Acceptability	 Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents are provided for some critical issue like technical data, safety warnings, necessary information to set up, but further evaluation is needed on end product level.), Clause 8.11.5 (Mains Fuse with High Breaking Capacity), Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated, Clause 10 (Radiation), Clause 11.7 (Biocompatibility), Clause 14 (PEMS), Clause 16 (ME Systems) Clause 17 (EMC),

4.0 0	Critica	al Components				
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			SABIC INNOVATIVE PLASTICS B V	SE1X	Min. V-1 at 1.5 mm thickness, 105 °C	
			SABIC INNOVATIVE PLASTICS B V	C2950	Min. V-0 at 1.5 mm thickness, 75° C	
1	1	Plastic enclosure	SABIC INNOVATIVE PLASTICS B V	CX7211 EXCY0098	Min. V-1 at 1.25 mm thickness, 85 °C	cURus
			TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	Min. V-0 at 1.5 mm thickness, 115 °C	
			CHI MEI Corporation	PA-765A	Min. V-1 at 1.5 mm thickness, 80° C	
			CHI MEI Corporation	PC-540	Min. V-0 at 1.5 mm thickness, 70°	
			DONGGUAN XIANGQUAN PRINTING CO LTD	XQ03		
			FAN JA PAPER PRINTING CO LTD	FJ-03-3		cURus
			FAN JA PAPER PRINTING CO LTD	FJ07		
			DONGGUAN XIANGQUAN PRINTING CO LTD	XQ004-B	Rated min 80°C Suitable for use on the plastic enclosure	
2	2	Label	E-LIN ADHESIVE LABEL CO LTD	EL-15		
			SHENZHEN CORWIN PRINTING CO LTD	CW-01		
			YUEN CHANG SPECIAL PRINTING (SHENZHEN) CO LTD	JL-08 JL-02		
			Various	Various		
			GlobTek	Various	Engraving or Silkscreen (Optional)	NR
3	3	Output cord	Various	Various	Min. 24AWG, min. 300V, min. 80° C	cURus

4.0 0	Critica	al Components				
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Zhejiang LECI Electronics Co., Ltd.	DB-6		
			Rich Bay Co., Ltd.	R-30790		
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-02	2.5A, 250Vac, for Class I model	
			TECX-UNIONS Technology Corporation	TU-333 series	Standard sheet: C6	
			Rong Feng Industrial Co., Ltd.	RF-190		
			Inalways Corporation	0724		
			Zhejiang LECI Electronics Co., Ltd.			
			Rich Bay Co., Ltd.	R-301SN		cURus
3	4	Appliance inlet (only for power	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac, for Class I model	
0	-	adapter model)	TECX-UNIONS Technology Corporation	TU-301-S TU-301-SP	Standard sheet: C14	
			Rong Feng Industrial Co., Ltd.			
			Inalways Corporation	0711 series		-
			Zhejiang LECI Electronics Co., Ltd.	DB-8		
			Rich Bay Co., Ltd.	R-201SN90		
			Sun Fair Electric Wire & Cable (HK)Co. Ltd. TECX-UNIONS Technology Corporation		2.5A, 250Vac, for Class II model	
					Standard sheet: C8	
			Rong Feng Industrial Co., Ltd.	RF-180		
			Inalways Corporation	0721 series		

4.0 Critical Components Photo Manufacturer/ Item Mark(s) of Technical data and securement Type / model² Name no.1 trademark² means conformity³ # FORMEX, DIV OF IL TOOL WORKS FORMEX GK V-0, min. 0.4 mm thickness, min. INC, FRMRLY series 115°C FASTEX, DIV OF IL TOOL WORKS INC VTM-2, min. 0.4 mm thickness, SKC CO LTD SH71S min. 105°C TORAY VTM-2, min. 0.4 mm thickness, Lumirror H10 INDUSTRIES INC min. 105°C FR60 series SABIC FR63 series 4 5 Insulating sheet INNOVATIVE V-0, min. 0.4 mm thickness, min. cURus FR65 series PLASTICS US L L 130°C FR7 series С FR700 series MIANYANG PP-BK-20 VTM-0, min. 0.4 mm thickness, LONGHUA FILM PP-BK-17 min. 80°C CO LTD PP-BK-18 ITW ELECTRONICS COMPONENTS/ FORMEX-18 V-0, min. 0.4 mm thickness, min. PRODUCTS FORMEX-17 100°C (SHANGHAI) CO LTD T4A, 250V, Rated breaking Conquer Electronics MST capacity 100A Co., Ltd. FS2 is optional in Class II product Ever Island Electric T4A, 250V, Rated breaking Co., Ltd. and Walter 2010 capacity 130A Electric FS2 is optional in Class II product T4A, 250V, Rated breaking Bel Fuse Ltd. RST capacity 100A FS2 is optional in Class II product T4A, 250V, Rated breaking Cooper Bussmann Fuse (FS1, FS2) SS-5 capacity 35A 6 cURus 6 LLC FS2 is optional in Class II product T4A, 250V, Rated breaking Walter Electronic ICP series capacity 50A Co. Ltd. FS2 is optional in Class II product T4A, 250V, Rated breaking Das & Sons 385T series capacity 35A International Ltd. FS2 is optional in Class II product T4A, 250V, Rated breaking Shenzhen Lanson SMT capacity 35A Electronics Co. Ltd. FS2 is optional in Class II product Choke coil (LF1) GlobTek 7 RC00088 6 Class A NR (Optional) BOAM ZhongTong

4.0 Critical Components Photo Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name no.1 trademark² means conformity # 07N471K JOYIN CO LTD 10N471K 14N471K 07D471K CENTRA SCIENCE 10D471K CORP 14D471K THINKING TVR07471K ELECTRONIC TVR10471K INDUSTRIAL CO TVR14471K LTD SVR07D471K SUCCESS ELECTRONICS CO SVR10D471K SVR14D471K LTD CERAMATE GNR07D471K **TECHNICAL CO** GNR10D471K Varistor (MOV1) Maximum continuous voltage: 8 6 LTD GND14D471K cURus 300V (optional) BRIGHTKING 07D471K 10D471K (SHENZHEN) CO 14D471K LTD LIEN SHUN 07D471K ELECTRONICS CO 10D471K LTD 14D471K HEL-7D471K HONGZHI HEL-**ENTERPRISES** 10D471K LTD HEL-14D471K **GUANGXI NEW** 07D471K FUTURE 10D471K INFORMATION 14D471K INDUSTRY CO LTD GlobTek Choke coil (LF2) ZhongTong 6 9 NR RC00150 Class A (Optional) BOAM GlobTek Choke coil (L1) ZhongTong 6 10 RC00085 Class A NR (Optional) BOAM GlobTek 6 11 PFC Choke (L2) BOAM XF00730 Class A NR ZhongTong HEJIA

4.0 Critical Components Photo Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name no.1 trademark² means conformity³ # Cheng Tung Max.0.47uF, 310V, 110°C, type СТХ Industrial Co., Ltd. X1 or X2 Tenta Electric Max.0.47uF, 250V, 110°C, type MEX Industrial Co. Ltd. X2 Ultra Tech Xiphi Max.0.47uF, 275V, 100°C, type HQX Enterprise Co. Ltd. X2 Okaya Electric Max.0.47uF, 250V, 110°C, type **RE** series Industries X2 VISHAY Capacitors Max.0.47uF, 310V, 110°C, type F1772 Belgium NV X1 or X2 Max.0.47uF, 310V, 110°C, type Winday Electronic MPX X capacitor (CX1) Industries Co., Ltd. X2 6 12 cURus (optional) MPX, MEX **Dain Electronics** Max.0.47uF, 250V, 110°C, type Co., Ltd. and NPX X2 Sinhua Electronics Max.0.47uF, 300V, 110°C, type MPX (Huzhou) Co., Ltd. Х2 Shunde Da Hua Max.0.47uF, 250V, 105°C, type HD-MKP Electric Co., Ltd. Χ2 Foshan Shunde Max.0.47uF, 275V, 105°C, type MKP-X2 Chuang Ge X2 Hongzhi Enterprises Max.0.47uF, 250V, 100°C, type MPX Ltd. Х2 Jiangsu Xinghua Max.0.47uF, 250V, 100°C, type MPX Huayu Co., Ltd. X2 3M COMPANY 1350F series ELECTRICAL 1350T series MARKETS DIV 44 series (EMD) BONDTEC PACIFIC 370S CO LTD JINGJIANG YAHUA Insulating tape PRESSURE PZ series Min.130°C 6 wrapped around cURus 13 SENSITIVE GLUE CT series heat-sink CO LTD JINGJIANG JINGYI JY25-A ADHESIVE PRODUCT CO LTD CHANG SHU LIANG YI TAPE LY-XX INDUSTRY CO LTD

4.0 Critical Components Photo Manufacturer/ Item Mark(s) of Technical data and securement Type / model² Name no.1 trademark² means conformity³ # SHENZHEN WOER RSFR HEAT-RSFR-H 600V, 125°C SHRINKABLE **RSFR-HPF** MATERIAL CO LTD QIFURUI QFR-h 600V, 125°C ELECTRONICS CO SALIPT S-Insulating tube DONGGUAN 901-300 (Used on Min. 300V, 125°C SALIPT CO LTD SALIPT S-6 14 appliance inlet pincURus 901-600 out or wrapped GUANGZHOU around heatsink) KAIHENG K-2 (+) Min. 300V, 125°C ENTERPRISE K-2 (CB) GROUP CHANGYUAN ELECTRONICS CB-HFT Min. 300V, 125°C (SHENZHEN) CO LTD TDK-EPC CD CORPORATION SUCCESS SE ELECTRONICS CO SB LTD MURATA MFG CO KΧ LTD WALSIN Y-Capacitor AH TECHNOLOGY Type Y1, max. 2200pF, min. cURus 6 15 (CY1, CY2) CORP 250V, min. 125°C (optional) JYA-NAY CO LTD JN HAOHUA CT7 ELECTRONIC CO HONGZHI ENTERPRISES Y LTD JERRO JX-series ELECTRONICS CORP XF00828 GlobTek XF00870 Transformer (T1) NR 6 16 BOAM XF00849 Class B HAOPUWEI XF00854 HEJIA XF00830 GREAT LEOFLON INDUSTRIAL CO TRW(B) LTD COSMOLINK CO TIW-M LTD FURUKAWA TEX-E Triple-insulated ELECTRIC CO LTD 17 wire (Secondary) CHANGYUAN Min.130°C cURus -(not shown) ELECTRONICS CB-TIW (SHENZHEN) CO LTD SHENZHEN JIUDING NEW DTIW-B MATERIAL CO LTD

4.0 Critical Components Photo Manufacturer/ Item Mark(s) of Technical data and securement Type / model² Name no.1 trademark² means conformity³ # CHANG CHUN T375J PLASTICS CO LTD T375HF SUMITOMO Bobbin PM-9820 V-0, 150°C, thickness 0.45 mm BAKELITE CO LTD 18 cURus -(not shown) min. HITACHI CHEMICAL CO CP-J-8800 LTD **3M COMPANY** 1350F-1 ELECTRICAL 1350T-1 MARKETS DIV 44 (EMD) BONDTEC PACIFIC 370S CO LTD JINGJIANG YAHUA ΡZ PRESSURE SENSITIVE GLUE СТ 20 19 Insulating tape Min.130°C cURus CO LTD JINGJIANG JINGYI ADHESIVE JY25-A PRODUCT CO LTD CHANG SHU LIANG YI TAPE LY-XX INDUSTRY CO LTD KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD DONGGUAN Earthing wire for 1015 Min. 20 AWG, Min. 300V, Min. 80° 6 20 cURus CHUANTAI WIRE Class I model 1007 С PRODUCTS CO LTD YONG HAO **ELECTRICAL** INDUSTRY CO LTD DONGGUAN GUNEETAL WIRE & CABLE CO LTD SHENG YU ENTERPRISE CO LTD Various

Mark(s) of

conformity³

4.0 Critical Components Photo Item Manufacturer/ Technical data and securement Type / model² Name means no.1 trademark² # TECHNI T2A TECHNOLOGY T2B LTD Τ4 DONGGUAN HE

			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1		
			CHEERFUL	03		
			ELECTRONIC	03A	4	
			DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2		
			SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min 1.6 mm thickness, min. V-0,	
7	21	PCB material	SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0 04V0	130°C	cURus
			BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A		
			GOLDEN TRIANGLE PCB & TECHNOLOGIES LTD	GT-D		
			SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	тсх		
			Various	Various		
11	22	Optocoupler	LITE-ON Technology Corporation	LTV-817C	2MOPP at working voltage 250Vrms, 100°C	NR
		(U2)	Everlight Electronics Co., Ltd.	EL817	With CB certification	
			GlobTek, Inc	GTX-130-TM		
		Insulation	BOAM	BOAM-01]	
-	23	system(not		130-1	Class B	cURus
		shown)	WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130		
			HEJIA	HJ130(B)		
NOT						
					s their location is obvious.	
2) "V	'ariou	s" means any type	e, from any manufactur	er that complies	s with the "Technical data and secur	rement

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.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

<u>Recognized Component</u> - 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.

<u>Listed Component</u> - 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.

<u>Unlisted Component</u> - 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.

<u>Critical Features/Components</u> - 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 Refer to illustration No(s) 2 for details.
- 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. <u>Corrosion Protection</u> All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
- 4. <u>Accessibility of Live Parts</u> 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 3 and 4.
- <u>Grounding</u> This product is not provided with a means of grounding as it is double insulated for Class II model. The accessible contacts of secondary terminal (-) are connected to the equipment grounding terminal for Class I model. Final determination in end product evaluation for open frame model.

6. <u>Polarized Connection</u> - 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. All wiring is minimum 24 AWG, with a minimum rating of 300V, 80°C.

8. <u>Schematics</u> - Refer to Illustration No(s). 3-4 for schematics & PCB layout requiring verification during Field Representative Inspection Audits.

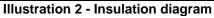
9. <u>Markings</u> - The product is marked as follows: brand name, model number, electrical ratings, manufacturer. Refer to Illustration No. 6 for details.

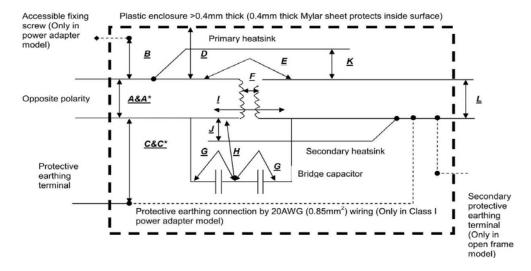
10. Cautionary Markings - Refer to illustrations No. 5 for details.

 <u>Safety Instructions</u> - Accompanying Documents are provided for some critical issue like technical data, safety warnings, necessary information to set up, but further evaluation is needed on end product level.

7.0 Illustrations Illustration 1 - Model list

Model	Rated output voltage range	Max. rated output current	Max. rated output power	Transformer model
GT*43004P-*8.9*-**	5-8.9Vdc	10A	90W	XF00828
GT*43004P-*16*-**	9-16Vdc	10A	90W	XF00870
GT*43004P-*24*-**	16.1-24Vdc	7.45A	120W	XF00849
GT*43004P-*35*-**	24.1-35Vdc	5A	120W	XF00854
GT*43004P-*48*-**	35.1-48Vdc	3.42A	120W	XF00830





TABI	LE: Insulation d	iagram (me	easured	values)	P					P₽
Pollu	tion degree			:• 2 •						+ ²
Over	voltage categor	y		:• II•						
Altitu	ıde			:- 300)0m↩					
	tional details on ed parts	•				Areas 4.6 for detai		↓		+ ²
Area	Number and type of Means of Protection:«	CTI⊷ (IIIb, unlessis		king age <i>⊷</i> Vpk≁	Required creepage (mm)+	Required clearance (mm)₽	Measured creepage (mm)+?	Measured clearance (mm)₽	F	Remarks⊷
A₽	MOOP, MOPP 1MOPP	known)∂ ∭b∂	240 ¢	0	4 0	2.5 ⁷ .	4.4 ⁶ ₽	2.7 ¢		site polarity
A¹₊∂	1MOPP.	iiib.	240⊷		4 ,	2.5 ⁷ *	4.3⊷	4.3⊷	Oppos	ns parte site polarity ns parte
B₽	2MOPP.	IIIb	240 ⊷	+2	7.9 ⁴ ₽	5.0₽	8.2 ⁶ ₽	6.6₽	Acces	sible metal s to mains
С	МОРР	IIIb	240	340	4.0	2.5	5.0	5.0		parts to PE al (On inlet)
C1	MOPP	IIIb	240	340	4.0	2.5	4.6	4.6		parts to PE al (On PCB
D	2MOPP	IIIb	240	340	7.9 ⁴	5.0	8	8	to acc enclos	al mains part essible oute sure (Only wer adapter)
E	2MOPP	llib	240 ³		7.9 ⁴	5.0	8.0 ⁵	8.0 ⁵	secon	parts to dary pin-out coupler)
F	2MOPP	IIIb	352 ³		10.7 ⁴	7.0	11.5	7.9	secon	parts to dary pin-out former)
F ²	2MOPP	IIIb	240 ³		7.9 ⁴	5.0	9.0	9.0	to sec	copper foil ondary pin- ransformer)
G	MOPP (Each) x 2	IIIb	240 ³		4.0 ⁴	2.5	6.5	6.5	secon	parts to dary pin-out acitor x 2)
н	МОРР	IIIb	240 ³		4.0 ⁴	2.5	4.6 ⁶	2.5	1 st Y c	dary parts to apacitor pin- n PCB trace)

Illustration 2a - Insulation diagram(Cont.)

I	2MOPP	llib	240 ³	 7.9 ⁴	5.0	8.1	8.1	Mains parts to secondary parts (On PCB trace)
J	2MOPP	IIIb	240 ³	 7.9 ⁴	5.0	-9	9	Secondary heatsink to mains parts
к	2MOPP	IIIb	240 ³	 7.9 ⁴	5.0	8.3	8.3	Primary heatsink to secondary parts
L	2MOPP	IIIb	Max. 48Vdc	 				Accessible parts per 8.4.2 c)

Note:

1) The same area is evaluated in open frame model. And there is no more difference if not specified.

2) Optionally an electromagnetic shield which is copper foil is added around the outside of the coil. It's connected to mains part.

3) The working voltage is highest measured value which acquired by testing all the models listed in the report at the rated input voltage, but not less than the rated input voltage.

4) Linear interpolation is applied to the determination of required creepage.

5) The minimum creepage and clearance is selected from all the types of optocouplers.

6) There is a slot min. 1 mm wide between these two parts.

7) Multiplication factor for MOOP: 1.14; Multiplication factor for MOPP: 1.00.

8) Minimum 0.4 mm thick Mylar sheet wraps around internal conductive parts.

9) Two layers of insulating tape or one layer of min. 0.4 mm thickness insulating tube wrap around the secondary heatsink.

Illustration 3 - Schematics

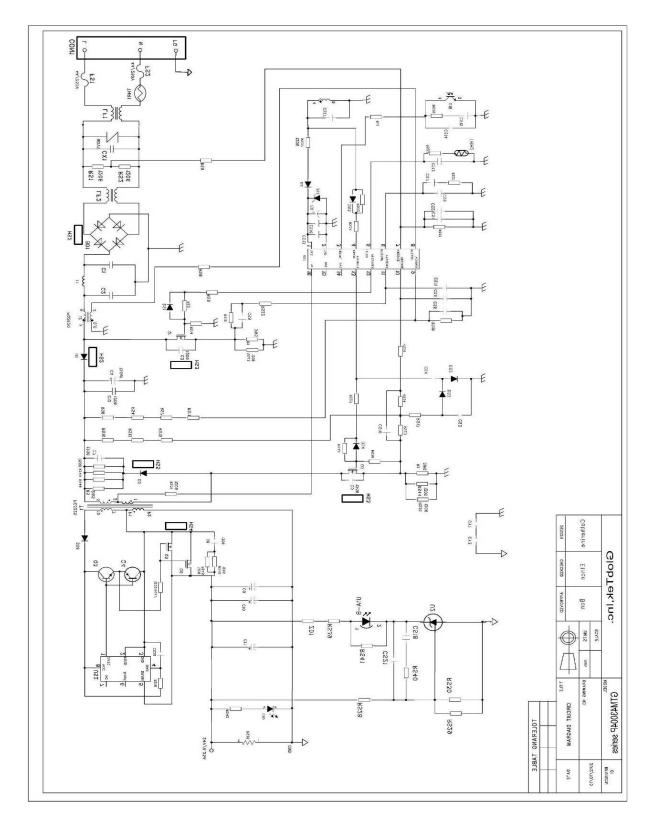


Illustration 3a - Schematics(Cont.) (Only for GTM43004P-12024-T2)-alternative

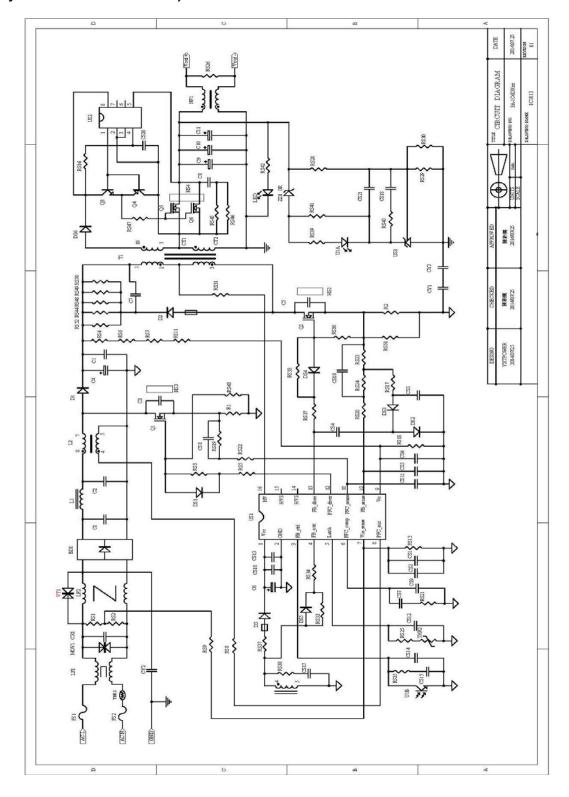
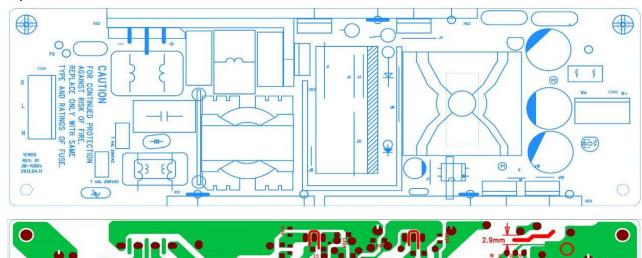
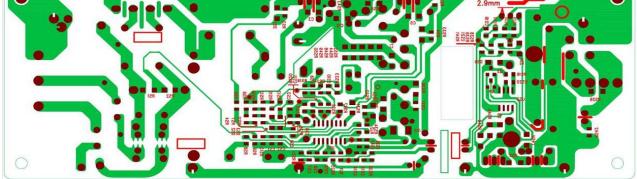
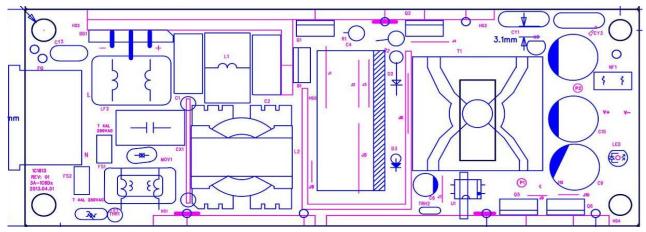


Illustration 4 - PCB LAYOUT For open frame model





For adapter model



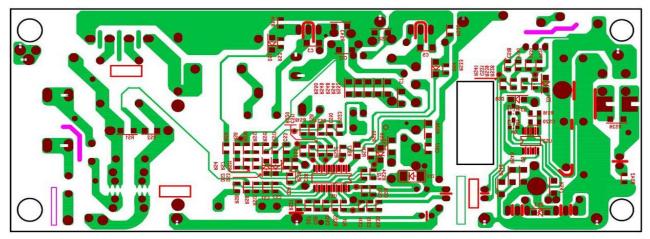
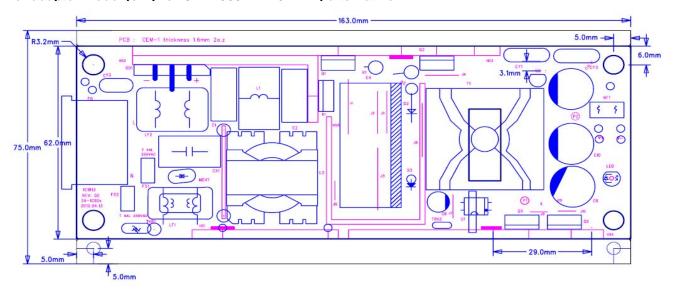
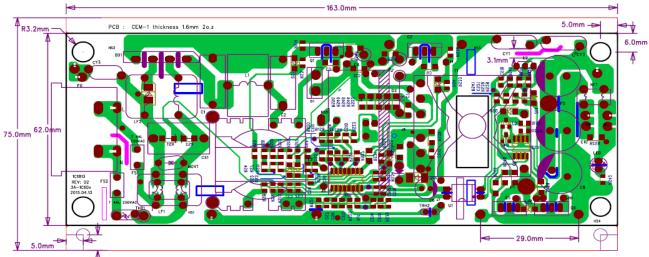


Illustration 4a - PCB LAYOUT(Cont.) For adapter model (only for GTM43004P-12024-T2)-alternative





4 5.0mm

Illustration 5 - Marking label

The other models (refer to 2.0) have the same labels except the model number and rating. For power adapter model, the left one represents Class I model series & the right one represents Class II model series.

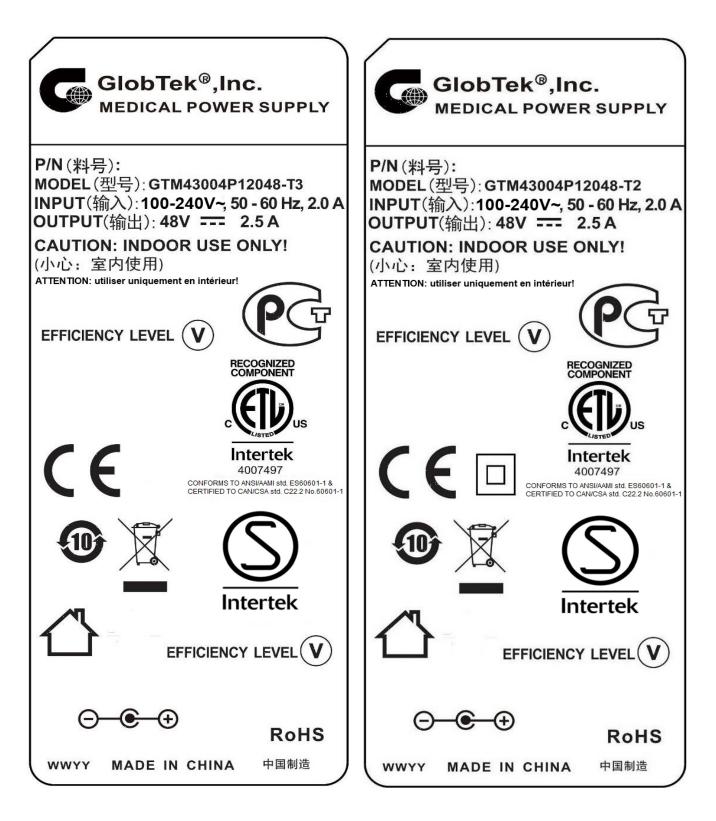
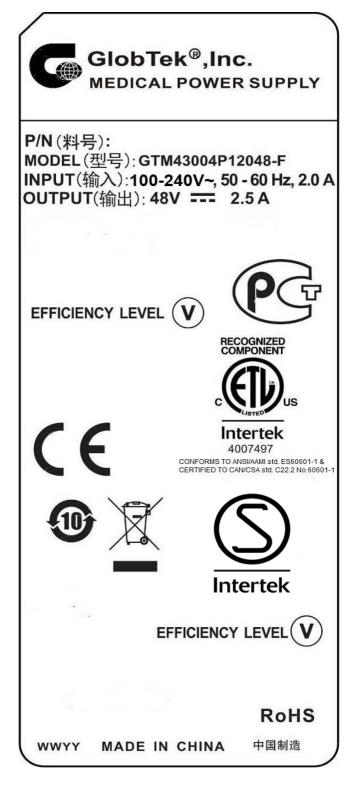


Illustration 5a - Marking label (Cont.) For open frame model



8.0 Test Summary							
Evaluation Period	8/5/2015-8/14/2	015			150702593SHA		
Sample Rec. Date	28-Jul-2015		Prototype		0150728-01		
Test Location	•	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China					
Test Procedure	Testing Lab						
Determination of the re							
methods. The product		ndicated below with	n results in conform	ance to the releva	ant test criteria.		
The following tests we	re performed:						
					ent, Part 1: General		
				for Basic Safety			
					1/08 & CAN/CSA-		
					Issued: 2014/03/01		
				rical Equipment -			
			Requirements	for Basic Safety	and Essential		
				Performance.			
Test Description				Clause			
Power Input			4.11				
Humidity Preconditioni	ng		5.7				
Accessible Parts			5.9.2				
Legibility of Markings			7.1.2				
Durability of Markings			7.1.3				
Plug Voltage and/or Er			8.4.3				
Working Voltage Meas	urement		8.5.4				
Earthing			8.6.4				
Leakage Current Test			8.7.4				
Dielectric Strength Mea	ans		8.8.3				
Ball Pressure Test			8.8.4.1				
Creepage & Clearance			8.9.4				
Surfaces, corners and edges			9.3				
Excessive Temperature		11.1					
Single Fault Conditions			13.2				
Push Test			15.3.2				
Impact Test			15.3.3				
Drop Test			15.3.4				
Moulding Stress Relief			15.3.6				
Transformer Short-Circ	cuit		15.5.1.2				
Transformer Overload	Otros estis		15.5.1.3				
Transformer Dielectric	Strength			15.5.2			

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:	Skot Shi	Reviewed by:	Justin Yu
Title:	Project engineer	Title:	Reviewer
Signature:	Skot Shi	Signature:	Dan Z

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.
	186 Veterans Dr. Northvale, NJ 07647 USA
Address	
Country	USA
Product	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

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

<u>Method</u>

One hundred percent of production of the products covered by this Report shall be subjected to a routine The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the 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 500VA or more, the applied test potential may be indicated by either:

Products Requiring Dielectric Voltage Withstand Test:					
Test Voltage	<u>Test Time</u>				
4000Vac	1 s				
1500Vac	1 s				
	4000Vac				

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible contacts of secondary terminal of the product and the grounding pin of the appliance inlet.

If accessible contacts of secondary terminal (-) are 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 model covered by this Report.

12.0 Revision Summary The following changes are in compliance with the declaration of Section 8.1:					
The following changes are in compliance with the declaration of Section 8.1:					
Date/ Proj # Site ID	Project Handler/	Section	Item	Description of Change	
				None	