

RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address									
Report Number	200501729SHA-001	Original Issued:	16-Dec-2020	Revised: None					
Standard(s)	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [AAMI ES60601-1:2005 +A1] Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance (R2018) [CSA C22.2#60601-1:2014 Ed.3] Medical Electrical Equipment - Part 1-6: General Requirements For Basic Safety And Essential Performance - Collateral Standard: Usability [IEC 60601-1-6:2010 Ed.3+A1] Medical Electrical Equipment - Part 1-6: General Requirements for Basic Safety and Essential Performance - Collateral Standard: Usability (R2016) [CSA C22.2#60601-1-6:2011 Ed.3+A1] Medical Electrical Equipment - Part 1-11: General Requirements for Basic Safety and Essential Performance - Collateral Standard: Requirements for Medical Electrical Equipment and Medical Electrical Systems Used in The Home Healthcare Environment [IEC 60601-1-11:2015 Ed.2] Medical Electrical Equipment - Part 1-11: General Requirements For Basic Safety And Essential Performance - Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment [CSA C22.2#60601-1-11:2015 Ed.2]								
Applicant	GlobTek, Inc.		Manufacturer	GlobTek (Suzhou) Co., Ltd.					
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Country	USA		Country	China					
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Phone	(201)784-1000 Ext.253	<u> </u>	Phone	86 512 6279 0301 Ext.189					
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2.0 Product Description Medical Power Supply Product GlobTek, Inc. (image only) Brand name Product covered by this report is open-frame medical power supply module. The installation and use for the insulation construction shall be finally determined in end product. Protective earth connection to secondary circuit is optional. Transformers used in all models are with same construction. The turns of secondary winding may Description be added or reduced according different output voltage. All models have same schematic, but some non-critical components may be adjusted according different output voltage. The parameters of these components depend on output voltage. The products are not intended to use in environment which altitude exceed 5000m. GT followed by M, - or H; followed by 96225; followed by 0, 1, 2 or 3; followed by P; followed by 001 to 225; followed by 12 to 54; may be followed by A to H; may be followed by -C or -D; may be followed by -; followed by F, FW, P2 or P3; may be followed by -; may be followed by six characters. Models GT followed by M, - or H; followed by 96225; followed by 0, 1, 2 or 3; followed by P; followed by 001 to 225; followed by 12.0 to 54.0; may be followed by A to H; may be followed by -C or -D; may be followed by -; followed by F, FW, P2 or P3; may be followed by -; may be followed by six characters. GT*96225*P*****-* (The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" can be 0, 1, 2 or 3, denote the different mechanical construction, "0" means open frame, "1" means L frame, "2" means cage, "3" means potted. The 3rd "*" can be "001" to "225", denotes the rated output wattage designation from 1W to 225W, in step of 1 denote 1W. The 4th "*" can be "12" to "54" or "12.0" to "54.0", denote the standard rated output voltage designation from 12.0V to 54.0Vdc, in step of 0.1 denote 0.1V. Model The 5th "*" can be optional, blank or A to H, denote the AUX Output voltage code. Similarity The 6th "*" can be Blank, -C or -D, related to PCB size, Blank=2"x4", -C=3"x5", -D= 7"x4.22". The 7th "*" =-F or F means Open Frame class I or class II with functional earth =-FW or FW means Open Frame class II =-P2 or P2 means Encapsulated Type, class II =-P3 or P3 means Encapsulated Type, class I or class II with functional earth The last * denote any six character, which can be 0-9 or A-Z or ()[] or – or blank for marketing purposes, -* can be blank.) All the models have similar construction of PCB but the rating output are different. Input: 100-240VAC, 50-60Hz or 50/60Hz, 3.0A; Ratings Output: 12.0-54.0Vdc, Max. 18.75A, Max. 225W. N/A Other Ratings

Issued: 16-Dec-2020

determined in end product evaluation.

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. 1.Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation: a) Clause 7.9 (Accompanying Documents of power adapter model are provided for some critical issue like technical data, safety warnings, necessary information to set up. Further evaluation is needed on end product level.), Conditions of b) Clause 8.11.5 (Mains Fuse with High Breaking Capacity), Acceptability c) Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated, d) Clause 10 (Radiation), e) Clause 11.7 (Biocompatibility), f) Clause 14 (PEMS), g) Clause 16 (ME Systems), h) Clause 17 (EMC) 2. As the product is open-frame power supply module, accessible parts, insulation construction and the tests thereof such as leakage current, mechanical hazards and fire enclosure shall be

Issued: 16-Dec-2020

Report No. 200501729SHA-001 GlobTek, Inc.

Issued: 16-Dec-2020 Revised: None

Photo 1 - External view for open frame models

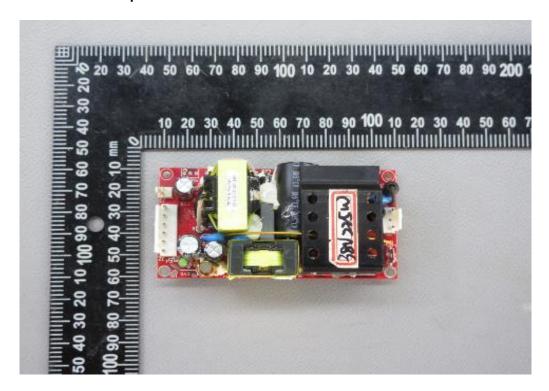


Photo 2 - External view for open frame models

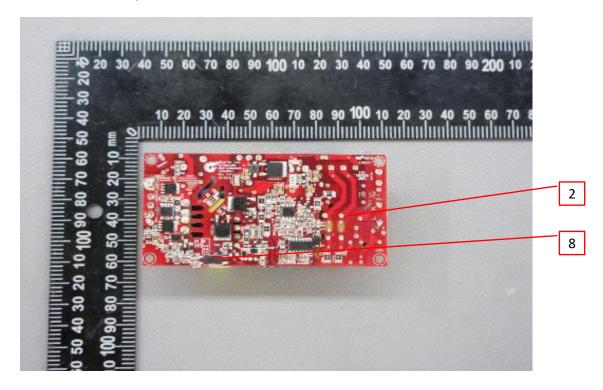


Photo 3 - External view for L frame models

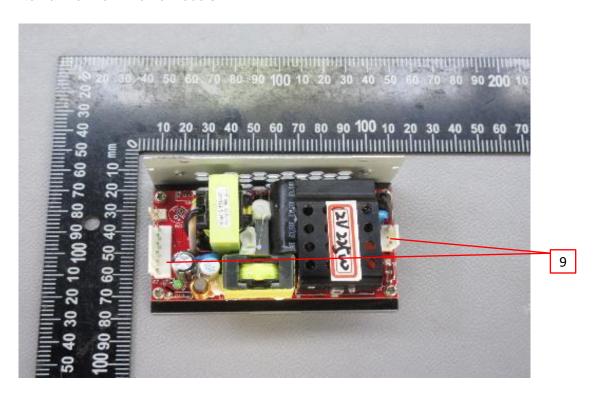


Photo 4 - External view for L frame models

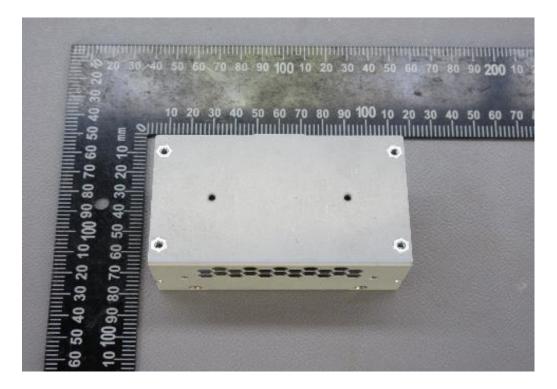


Photo 5 - External view for cage models

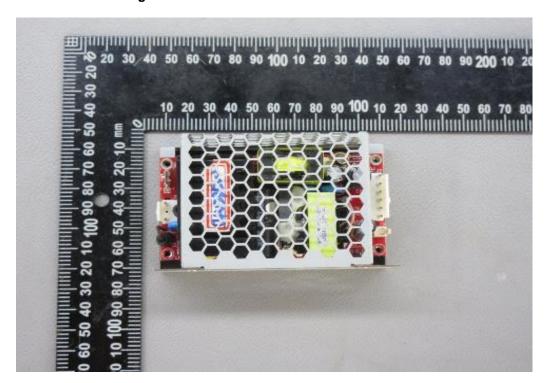
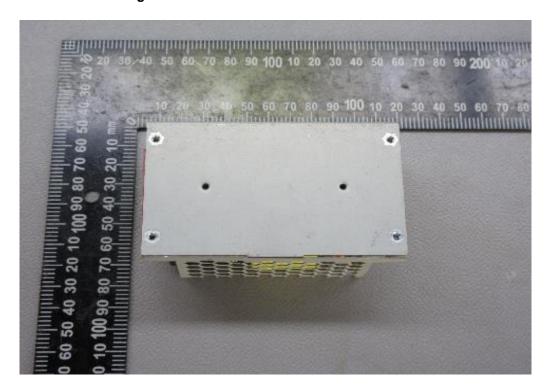


Photo 6 - External view for cage models



Report No. 200501729SHA-001 GlobTek, Inc.

Photo 7 - External view for potted models

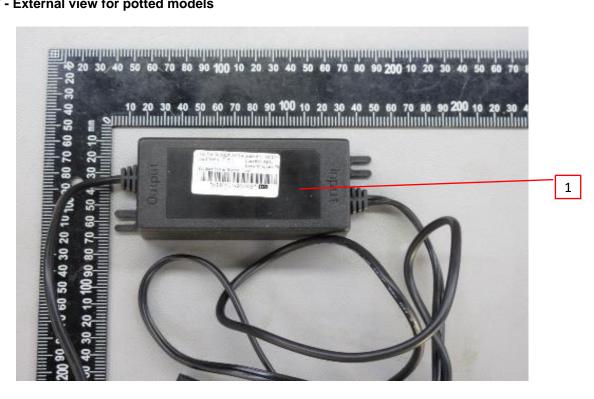


Photo 8 - Internal view for potted models

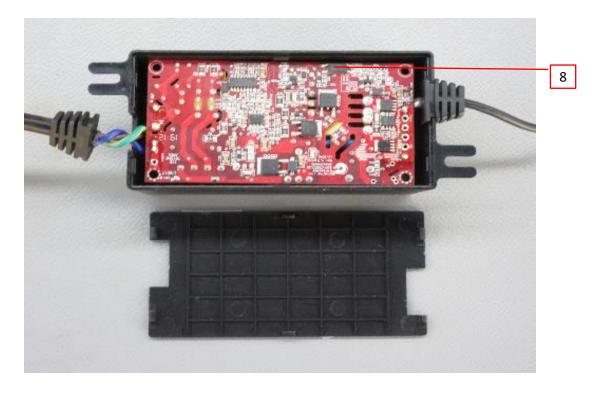


Photo 9 - Internal view for potted models

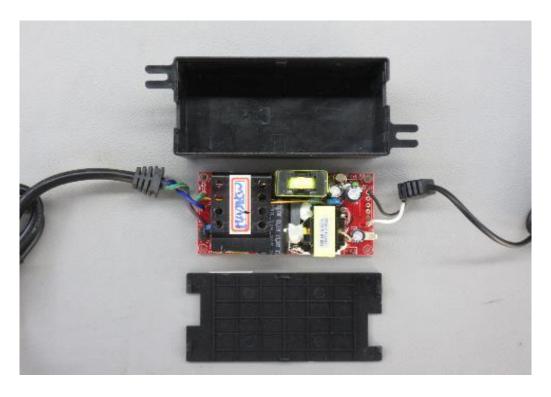


Photo 10 - PCB view

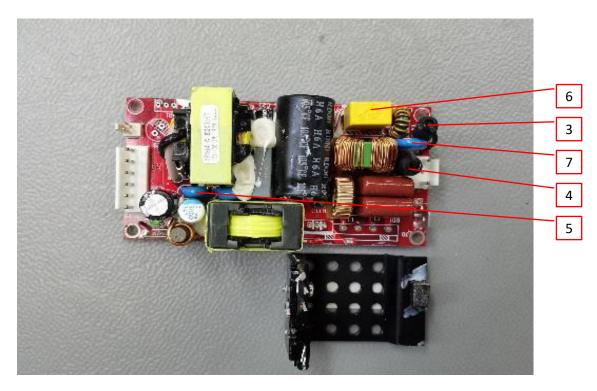


Photo 11 - External view for open frame models



Photo 12 - External view for open frame models

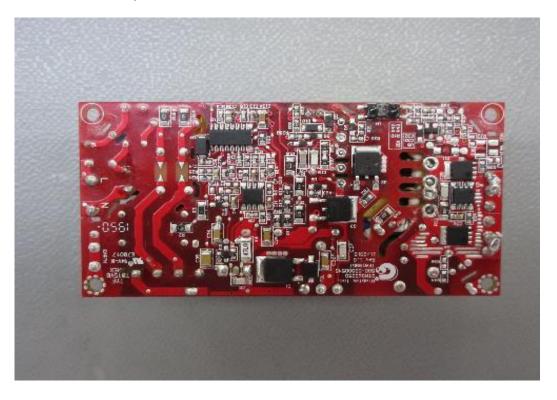


Photo 13 - Transformer

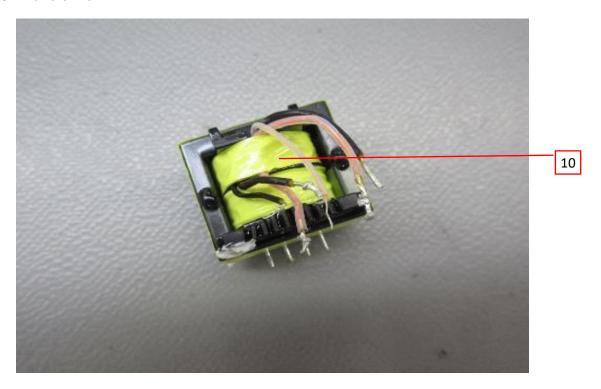


Photo 14 - Transformer

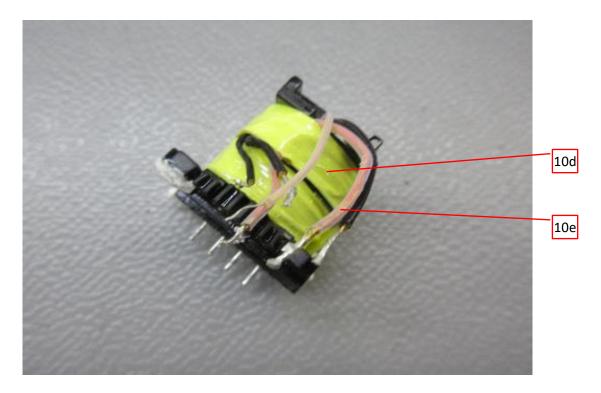


Photo 15 - Transformer

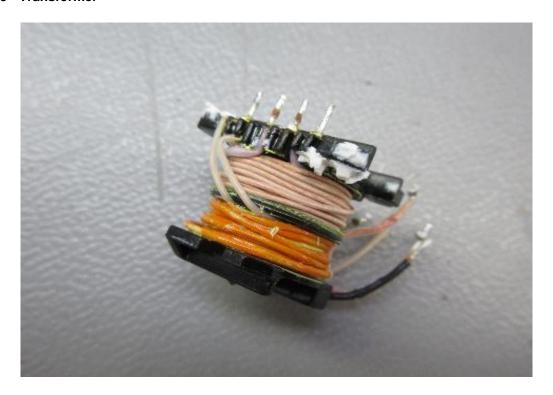


Photo 16 - Transformer

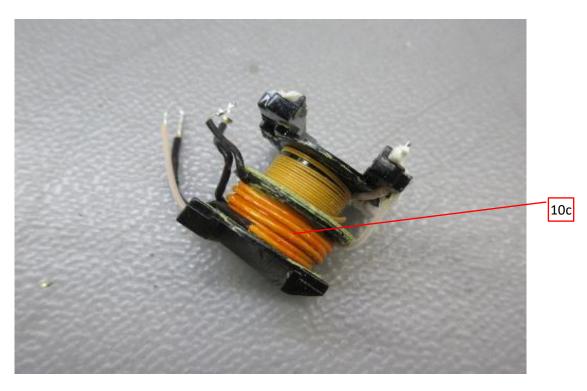


Photo 17 - Transformer



Photo 18 - Transformer



Photo 19 - Transformer



Photo 20 - Transformer

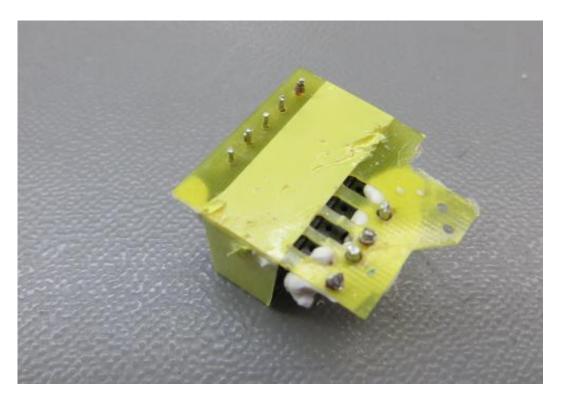


Photo 21 - Transformer

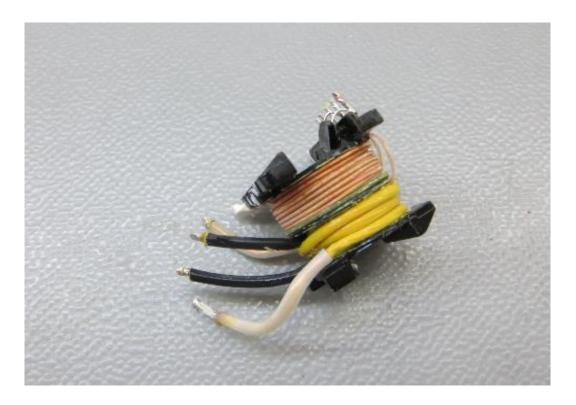


Photo 22 - Transformer

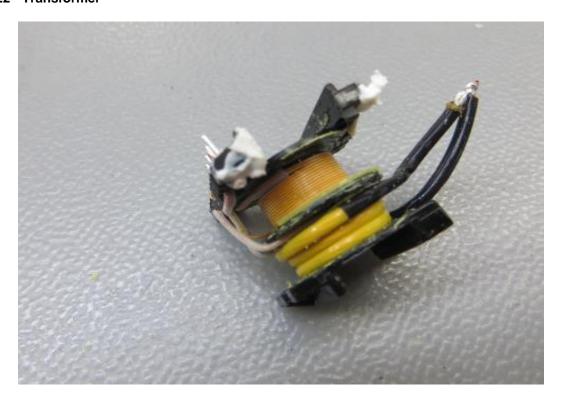


Photo 23 - Transformer



4.0	I.0 Critical Components									
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity				
			SABIC	SE1X	PPE+PS, Min. V-1, Min.					
			INNOVATIVE PLASTICS B V	SE1	thickness: 1.5mm, 105°C					
			SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V-1, Min. thickness: 1.5mm, 95°C					
			SABIC INNOVATIVE PLASTICS B V	C2950	PC/ABS, Min. V-0, Min. thickness: 1.5mm, 85°C					
			SABIC	CX7211	PC/ABS, Min. V-1, Min. thickness:					
		INNOVATIVE PLASTICS B V	EXCY0098	1.5mm, 90°C						
			SABIC INNOVATIVE PLASTICS B V	940	PC, Min. V-1, Min. thickness: 1.5mm, 120°C					
		SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 1.5mm, 120°C						
			SABIC INNOVATIVE PLASTICS B V	IIVE HF500K _{125°C}	PC, V-0, Min. thickness: 1.5mm, 125°C					
		SABIC JAPAN L L	SE1X	PPE+PS, Min. V-1, Min.						
1,		Plastic cover	C SABIC JAPAN L L	SE1	thickness: 1.5mm, 105°C PPE+PS, Min. V-1, Min.					
2, 3,	1	(For model GTM962253P*****	С	SE100	thickness: 1.5mm, 95°C	cURus				
4		*)	SABIC JAPAN L L C	C2950	PC/ABS, Min. V-0, Min. thickness: 1.5mm, 85°C					
			SABIC JAPAN L L	CX7211	PC/ABS, Min. V-1, Min. thickness:					
			С	EXCY0098	1.5mm, 90°C					
			SABIC JAPAN L L	940	PC, Min. V-1, Min. thickness:					
			С	945	1.5mm, 120°C					
			SABIC JAPAN L L C	HF500R	PC, V-0, Min. thickness: 1.5mm, 125°C					
			SABIC JAPAN L L	925U	PC, V-0, Min. thickness: 1.5mm,					
			C	CH6410	115°C					
			TEIJIN	LN-1250P	PC, Min. V-0, Min. thickness:					
			CHEMICALS LTD	LN-1250G	1.5mm, 115°C					
			CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 1.5mm, 85°C					
			CHI MEI CORPORATION	PC-540	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 70°C	1				
			COVESTRO DEUTSCHLAND AG(PC RESINS)	6485+	Min. V-0, Min. thickness: 1.5mm, 100°C					

4.0	Critic	al Components					
Photo #	Item	INama	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity	
			JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-2	V-0, 130°C, Min.1.6 mm thickness		
			SHUANG MING INDUSTRY CO LTD	T005V0 T015V0	V-0, 130°C, Min.1.6 mm thickness		
			SHANGHAI H- FAST ELECTRONICS CO LTD	211001	V-0, 130°C, Min.1.6 mm thickness		
2	2	РСВ	GUANGDE BOYA XINXING ELECTRONIC TECHNOLOGY CO LTD	BY-1	V-0, 130°C, Min.1.6 mm thickness	cURus	
			SHENZHEN GOLDEN BOARD CIRCUIT	JYH-2	V-0, 130°C, Min.1.6 mm thickness		
			ZHEJIANG WANZHENG ELECTRONICS SCIENCE & TECHNOLOGY CO LTD	JWZ-2	V-0, 130°C, Min.1.6 mm thickness		
			Various	Various	V-0, 130°C, Min.1.6 mm thickness; Fully comply with UL 796.		
			Conquer Electronics Co., Ltd.	UDA series			
			Suzhou Walter Electronic Co. Ltd.	TSC Series			
			Littelfuse Inc	215-Serie(s)			
			Conquer Electronics Co., Ltd.	MST			
			Suzhou Walter Electronic Co. Ltd.	2010			
			Bel Fuse Ltd.	RST			
			Cooper Bussmann LLC	SS-5			
			Shenzhen Lanson Electronics Co. Ltd.	SMT			

	Critic	al Components					
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity	
10	3	Current fuse	Dongguan Better Electronics Technology Co., Ltd.	932	T4A, 250V (F1, F2, F2 is optional)	cURus	
10	3	Currentiuse	Hollyland Company Limited	5ET	144, 250V (F1, F2, F2 is Optional)	CORus	
			Sunny East Enterprise Co. Ltd.	CFD			
			Conquer Electronics Co., Ltd	MET			
			Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10			
			Suzhou Walter Electronic Co. Ltd.	ICP-Series			
			Suzhou Walter Electronic Co. Ltd.	2020			
			Conquer Electronics Co., Ltd	MMT			
			Bel Fuse Ltd.	RSTA			
			Littelfuse Inc.	TE5 400	1		
			SHENZHEN WOER HEAT-	RSFR			
			SHRINKABLE	RSFR-H	600V, 125°C, VW-1		
			MATERIAL CO LTD	RSFR-HPF	1		
			QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C, VW-1		
		Heat shrinkable	DONGGUAN	SALIPT S-901- 300	300V, 125°C, VW-1		
10	4	tubing (Optional)	SALIPT CO LTD	SALIPT S-901- 600	600V, 125°C, VW-1	cURus	
			GUANGZHOU KAIHENG	K-2 (+)	300V, 125°C, VW-1]	
			ENTERPRISE GROUP	K-2 (CB)	600V, 125°C, VW-1		
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	300V, 125°C, VW-1		

	.0 Critical Components								
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity			
			TDK Corporation	CD					
			SUCCESS ELECTRONICS CO LTD	SE					
			SUCCESS ELECTRONICS CO LTD	SB					
			Walsin Technology Corp.	АН					
10	5	Y-Capacitor (optional)	Haohua Electronic Co.,Ltd	CT 7	Min.250V, 125°C, Max.1500pF, Y1 type (CY3, CY4)	cURus			
		Murata Mfg. Co., Ltd.	кх						
		JYA-NAY CO LTD	JN						
		JYH CHUNG ELECTRONICS CO LTD	JD						
		WELSON INDUSTRIAL CO LT D	WD						
			Shantou High- New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX					
			Tenta Electric Industrial Co. Ltd.	MEX					
			Joey Electronics (Dong Guan) Co., Ltd.	MPX					
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX					
			Yuon Yu Electronics Co. Ltd.	MPX					
			Sinhua Electronics (Huzhou) Co., Ltd.	MPX					
			Cheng Tung Industrial Co., Ltd.	СТХ					
			Dain Electronics	MEX]				
			Co., Ltd.	MPX					
				NPX	J				

4.0 Critical Components Photo Mark(s) of Item Manufacturer/ Technical data and securement conformity Name Type / model² trademark² no.1 means # Jiangsu Xinghua Huayu Electronics MPX Co., Ltd. X capacitor Max. 0.68µF, Min. 250V, Min. 10 6 cURus (Optional) 100°C, X2 type (CX1) Shenzhen Jinghao Capacitor Co., CBB62B Ltd. **DONG GUAN** MPX AJC INDUSTRIAL CO., LTD MKP Foshan Shunde Chuang Ge MKP-X2 Electronic Industrial Co., Ltd. Okaya Electric Industries Co. **RE-Series** LTD Hongzhi MPX (X2) Enterprises Ltd. Foshan Shunde Beijiao Hua Da HD MKP series Electric Industrial Co., Ltd. Vishay Electrónica F 1772 Serie(s) Portugal, Lda WINDAY **ELECTRONIC** MPX series (DONG GUAN) CO., LTD Hua Jung Components Co., MKP

Ltd.

Issued: 16-Dec-2020

	.0 Critical Components									
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity				
			CENTRA	CNR-10D471K						
			SCIENCE CORP	CNR-14D471K						
			Thinking Electronic	TVR10471K						
			Industrial Co., Ltd.	TVR14471K						
			SUCCESS ELECTRONICS	SVR10D471K						
	10 7 Varistor (optional)		COLTD	SVR14D471K						
			IOVINI CO LTD	10N471K	Min. 300Vac, min. 385Vdc,					
10		JOYIN CO LTD	14N471K	fulfilled 6kV/3kA pulse test, Min.	cURus					
		Lien Shun Electronics Co.,	10D471K	80°C. MOV1						
			Ltd.	14D471K						
			CERAMATE	GNR10D471K						
			TECHNICAL CO LTD	GNR14D471K						
			BRIGHTKING	10D471K						
			(SHENZHEN) CO LTD	14D471K						
			Walsin	SR471K10D						
			Technology Co., Ltd.	SR471K14D						
			VISHAY Semiconductor	TCLT1009						
			GmbH.	VOL618A						
2, 8	8		Everlight Electronics Co., Ltd.	EL1019	U4, Double protection optical isolators, providing Min. 5000 vac	cURus				
2, 0	0	Photo coupler	COSMO Electronics Corporation	KT1019	isolation					
			Lite-On Technology Corporation	LTV-1009						
			JAPAN SOLDERLESS TERMINAL MFG CO LTD	VH series						
			JOINT TECH ELECTRONIC	A7920 series						
3	9	Connector	INDUSTRIAL CO LTD	A3960 series	Min. 240V, Min. 80°C;	cURus				
	3 9 Connector		ZHEJIANG HONGXING ELECTRICAL CO LTD	HX396XX-YYY series		COIXUS				
			MOLEX L L C	MOLEX L L C						

Photo #	Item no.1	Al Components Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) or conformity
ır				TF094	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 12-14.9VDC;	
				TF095	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 15-18.9VDC;	
			GlobTek	TF096	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 19-23.9VDC;	
			Significan	TF097	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 24-31.9VDC;	
				TF098	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 32-41.9VDC;	
				TF099	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 42-54VDC;	
				TF094	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 12-14.9VDC;	
				TF095	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 15-18.9VDC;	
				TF096	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 19-23.9VDC;	
			ENG	TF097	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 24-31.9VDC;	
				TF098	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 32-41.9VDC;	

	Critic	al Components				Montale -
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity
13	10	Transformer		TF099	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 42-54VDC;	NR
			TF094	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 12-14.9VDC;		
				TF095	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 15-18.9VDC;	
			TF096	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 19-23.9VDC;		
			BOAM	TF097	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 24-31.9VDC;	
				TF098	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 32-41.9VDC;	
				TF099	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 42-54VDC;	
				TF094	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 12-14.9VDC;	
				TF095	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 15-18.9VDC;	
			HAODINATI	TF096	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 19-23.9VDC;	
			HAOPUWEI	TF097	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 24-31.9VDC;	

4.0 (Critic	al Components				
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity
				TF098	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 32-41.9VDC;	
				TF099	Class B, with insulation system and critical component shown as below items (10a - 10e); Used for models with output voltage 42-54VDC;	
			Globtek	GTX-130-TM		
	13 Insulation system (not shown)		Haopuwei	ZT-130	1	
13			DOAM	BOAM-01	Class B	cURus
		(,	BOAM	B1		
		ENG	ENG130-1	1		
	17 10b E		HITACHI CHEMICAL CO LTD	CP-J-8800		
		Bobbin	SUMITOMO	PM-9820]	
17			BAKELITE CO LTD	PM-9830	Phenolic, V-0, 150 °C, Min. thickness 0.45mm	cURus
			CHANG CHUN PLASTICS CO	4130		
				T375J]	
			LTD	T375HF]	
			Furukawa Electric Co Ltd.	TEX-E		
			TOTOKU ELECTRIC CO LTD	TIW-2		
			COSMOLINK CO.	TIW-M		
			Great Leoflon Industrial Co Ltd	TRW (B) Serie(s)		
16	10c	Triple-insulated wire	E&B TECHNOLOGY	E&B-XXXB	Class B	cURus
			COLTD	E&B-XXXB-1		
			SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B		
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW		

Issued: 16-Dec-2020

4.0 Critical Components Mark(s) of Photo Manufacturer/ Item Technical data and securement conformity Name Type / model² trademark² no.1 means 3M COMPANY 1350F-1 **ELECTRICAL** 1350T-1 MARKETS DIV 44 (EMD) JINGJIANG PΖ YAHUA СТ **PRESSURE** SENSITIVE GLUE WF CO LTD JINGJIANG 10d Insulating tape Min.130°C cURus **JINGYI ADHESIVE** JY25-A(b) PRODUCT CO LTD **BONDTEC** 370S(b) PACIFIC CO LTD CHANG SHU LIANG YI TAPE LY-XX(a)(b) **INDUSTRY CO** LTD **GREAT TFT HOLDING** Min. 300V, 200°C **INDUSTRIAL CO TFS** LTD SHENZHEN **WOER HEAT-**WF 600V, 200°C SHRINKABLE MATERIAL CO LTD 14 10e Tubing cURus CHANGYUAN CB-TT-T **ELECTRONICS** Min. 300V, 200°C (SHENZHEN) CO CB-TT-S LTD **DONGGUAN** LING FREE **HARDWARE** LING FREE Min. 300V, 200°C **PLASTICS** PTFE TUBE PRODUCT CO LTD

NOTES:

Issued: 16-Dec-2020

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

^{2) &}quot;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.

Report No. 200501729SHA-001 GlobTek, Inc.

Page 26 of 39

Issued: 16-Dec-2020 Revised: None

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

Page 27 of 39 Issued: 16-Dec-2020 Revised: None

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.

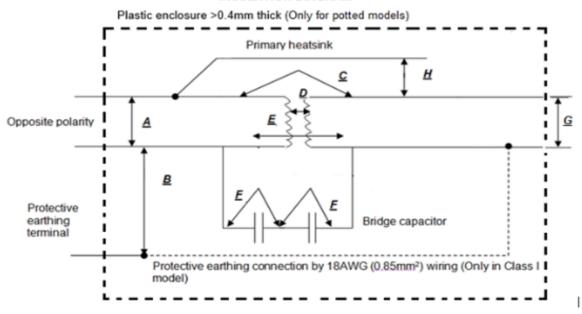
Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements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

- 1. Spacing Refer to illustration No(s) 1-2 in sec.7.0 for details.
- 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
- 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 For adapter models with earthing connection, 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. For adapter models without earthing connection, the products are not provided with grouding means as they are reinforced insulated.
- Polarized Connection This product is provided with a non-polarized power supply connection.
- Internal Wiring No primary internal wiring.
- 8. Markings The product is marked as follows:
 - 1. Brand name: refer to sec. 2.0
 - 2. Product name: refer to sec. 2.0
 - 3. Model: refer to sec. 2.0
 - 4. Ratings: refer to sec. 2.0
- 9. Transformer Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 10) was constructed as indicated in Illustrations No(s). 4-6. These records must be available at the factory for inspection on every received shipment.

7.0 Illustrations

Illustration 1 - Spacings

INSULATION DIAGRAM



TABL	E: INSULATIO	N DIAGRA	М						Р
Pollut	tion degree			: 2					_
Overv	oltage categor	y		: II					_
Altitude Up to 5000m								_	
Additional details on parts considered as applied parts								_	
Area	Number and type of Means of Protection: MOOP, MOPP	СТІ	Working Vone	yoltage	Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
Α	1MOOP	ШЬ	240		3.0	3.06	3.50	3.50	Opposite polarity of mains part
В	1МООР	IIIb.	240		3.0	3.06	3.52	3.52	Line/Neutral to PE terminal trace (for Class I)
B¹	1MOPP	lllb.	240	340	4.0	3.06	4.05	4.05	Mains parts to PE terminal
С	2MOPP	lllb.	240	340	7.94	7.4 ⁶	7.96	7.96	Mains part to secondary

7.0 Illustrations

Illustration 2a - Spacings (Cont.)

									circuits (Optocoupler)
D	2МОРР	IIIb.	240	340	7.94	7.4 ⁶	12.0	12.0	Mains part to secondary circuits (Transformer)
D¹	2МОРР	Wb.	240	340	7.94	7.4 ⁶	8.20	8.20	Core to secondary circuits (Transformer)
Е	2МОРР		240 ³	-	7.94	7.4 ⁶	8.10	8.10	Mains parts to secondary circuits (PCB trace) to secondary pin-out (Y capacitor x 2)
G		Wb.	Max. 54Vdc						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.
- Optionally an electromagnetic shield which is copper foil is added around the outside of the coil. It's connected to mains part.
- 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) Multiplication factor for MOOP: 1.48; Multiplication factor for MOPP: 1.29.
- 7) Minimum 0.4 mm thick Mylar sheet wraps around internal conductive parts.

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

7.0 Illustrations

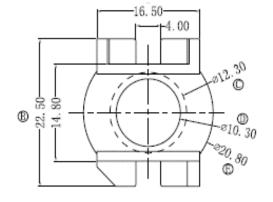
Illustration 3 - Model list

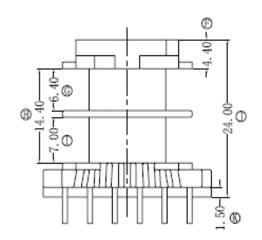
Mode inthout AUX output voltage	Output Voltage	Max. output current	Max. output power
GT*96225*P**-F/FW/P2/P3-* GT*96225*P**F/FW/P2/P3-* GT*96225*P**-C-F/FW/P2/P3-* GT*96225*P**-CF/FW/P2/P3-* GT*96225*P**-D-F/FW/P2/P3-* GT*96225*P**-DF/FW/P2/P3-*	12.0-54.0Vdc	18.75A	225W

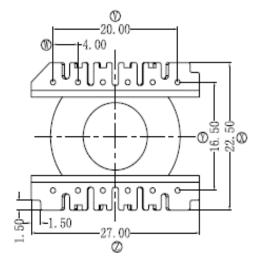
Main Output Voltage	Max. output current	AUX output voltage	AUX output current	Max. output power
12.0-	18.75A	12Vdc	Max 1.2A	225W
		5Vdc		225W
1		6Vdc		225W
1		7Vdc		225W
12.0-	18.75A	8Vdc	Max 1.2A	225W
24.0Vdc		9Vdc		225W
		10Vdc		225W
1		11Vdc		225W
	Voltage 12.0- 54.0Vdc	Voltage current 12.0- 54.0Vdc 12.0- 24.0Vdc 18.75A	Voltage current voltage 12.0- 18.75A 12Vdc 54.0Vdc 5Vdc 6Vdc 7Vdc 12.0- 24.0Vdc 8Vdc 9Vdc 10Vdc	Voltage current voltage current 12.0- 54.0Vdc 18.75A 12Vdc Max 1.2A 5Vdc 6Vdc 7Vdc 12.0- 24.0Vdc 18.75A 8Vdc Max 1.2A 9Vdc 10Vdc 10Vdc

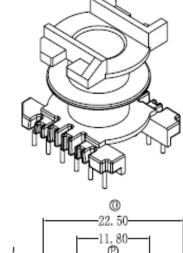
7.0 Illustrations

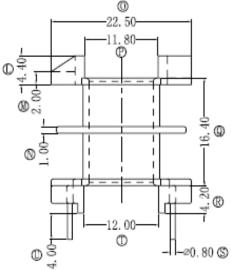
Illustration 4 - Transformer specification

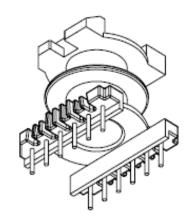






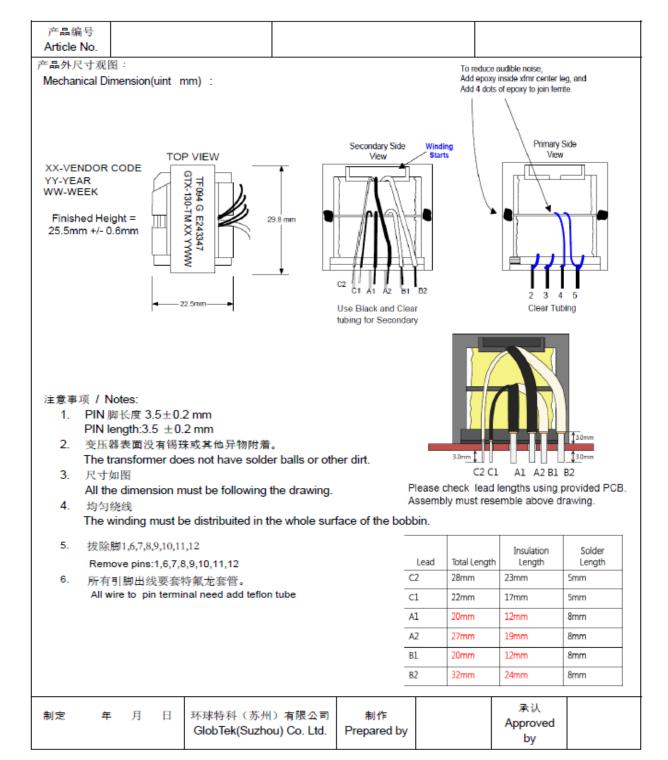






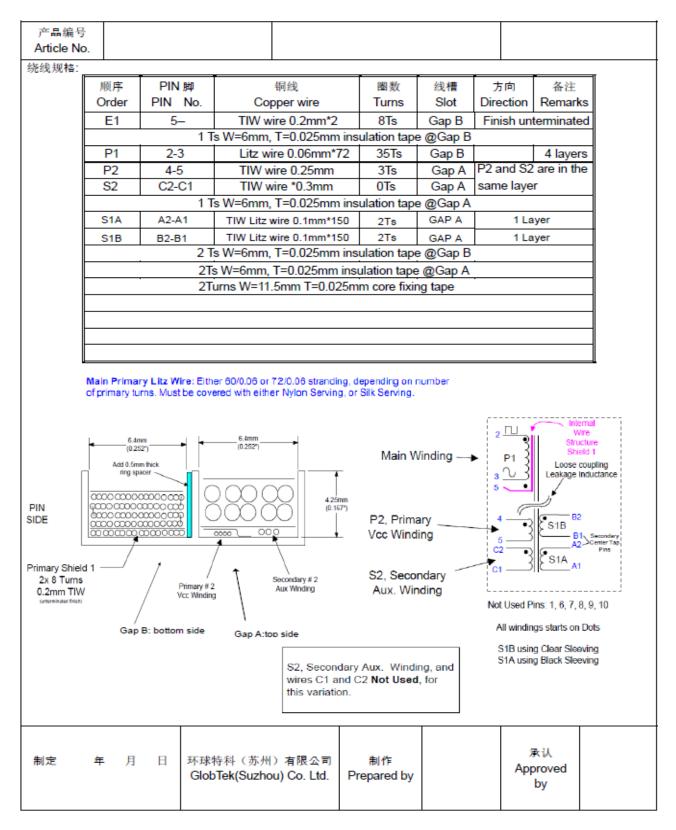
7.0 Illustrations

Illustration 5 - Transformer specification (Cont.)



7.0 Illustrations

Illustration 6 - Transformer specification (Cont.)



8.0 Test Summary Evaluation Period 12-May-2020 to 16-Sep-2020 Project No. 200501729SHA 0200512-34-Sample Rec. Date 12-May-2020 Condition Prototype Sample ID. 001~020 Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China **Test Location 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:

The following tests were performed:				
	AAMI ES60601-1:2005 +A1			
	CSA C22.2#60601-1:2014 Ed.3			
Test Description				
Power Input	4.11			
Humidity Preconditioning	5.7			
Legibility of Markings	7.1.2			
Durability of Markings	7.1.3			
Plug Discharge Test	8.4.3			
Working Voltage Measurement	8.5.4			
Leakage Current Test	8.7.4			
Dielectric Strength Test	8.8.3			
Ball Pressure Test	8.8.4.1			
Creepage & Clearance Measurements	8.9.4			
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-Circuit Test	15.5.1.2			
Transformer Overload Test	15.5.1.3			
	IEC 60601-1-6:2010 Ed.3+A1			
Test Description	CSA C22.2#60601-1:2014 Ed.3			
General requirements	4			

Test Description	IEC 60601-1-11:2015 Ed.2 CSA C22.2#60601-1-11:2015 Ed.2
Environmental condition test of transport and storage between uses	4.2.2
Continuous operating conditions	4.2.3.1
Shock test	10.1.2 a)
Vibration test	10.1.2 b)

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:	Manager
Signature:	Albert 2hou	Signature:	WYU Wang

Issued: 16-Dec-2020

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

Issued: 16-Dec-2020

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.

Issued: 16-Dec-2020 Page 37 of 39 GlobTek, Inc. Revised: None

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.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for reevaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

> Managing CEC Location: Intertek Testing Services Shanghai Limited **ETL Component Evaluation Center** Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233, China

Attn: Ms. Angela Han

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.

Page 38 of 39 Issued: 16-Dec-2020 Revised: None

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:		
Product	Test Voltage	Test Time
All the product covered by this report Between mains part and secondary circuits.	4000Vac	1s
Product - One sample from each shipment of Section 4.0 item 10:	Test Voltage	Test Time
Between primary circuit and secondary output Between secondary circuit and core	4000Vac 4000Vac	1min 1min
Product - Model TF099 from each shipment of Section 4.0 item 10:	Test Voltage	Test Time
Between primary circuit and secondary output Between secondary circuit and core	4000Vac 4000Vac	1min 1min

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

Issued: 16-Dec-2020