

# **RECOGNIZED COMPONENT** Constructional Data Report (CDR)

1.0 Reference and Address							
Report Number	170500750SHA-001	Original Issued:	27-Jun-2017	Revised: 24-Mar-2020			
	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [AAMI ES60601-1:2005 +A1]						
Standard(s)	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [CSA C22.2#60601-1:2014 Ed.3]						
Medical Electrical Equipment - Part 1-11: General Requirements for Basic Safety a Performance - Collateral Standard: Requirements for Medical Electrical Equipment Electrical Systems Used in The Home Healthcare Environment [IEC 60601-1-11:20							
Applicant	GlobTek, Inc.		Manufacturer	GlobTek (Suzhou) Co., Ltd.			
Address	186 Veterans Dr. Norti	nvale, NJ 07647	Address	Building 4. No 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021			
Country	USA		Country	China			
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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. Transformers used in all models are with same construction. The turns of secondary winding may be added or reduced according different output voltage. All models have same PCB, but some non-critical components may be adjusted according different output voltage. The parameters of these components depend on output voltage. 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 as customer's request.
Models	GT followed by M, - or H; followed by 46161-; followed by 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 or 16; followed by 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 05, 05.1, 05.2, 05.3, 05.4 or 05.5; followed by -USB, -USB1A, -USB2A or -USBC.
Model Similarity	M, - or H for market identification and not related to safety. 01, 02, 03, 04, 05, 06, 07, 08, 09,10,11,12,13, 14, 15 or 16 denote the rated output wattage designation. 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 05, 05.1, 05.2, 05.3, 05.4 or 05.5 denote the standard rated output voltage designation. -USB means Type 1 one USB type-A, -USB1A means Type 2 one USB type-A, -USB2A means Type 2 dual USB type-A and -USBC means Type 2 USB type-C.
Ratings	Input: 100-240 V~, 50-60 Hz, 0.45 A, Class II; Output: Refer to illustration No.1 for details.
Other Ratings	N/A
	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.
	Models GTM46161-165.0-USB and GTM46161-165.0-USBC are tested as typical models. Transformers used in all models are with same construction. The turns of secondary winding may be added or reduced according different output voltage. All models have same PCB, 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 5000 m.
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)

# Photo 1 - External view of EUT



# Photo 2 - External view of EUT



# Photo 3 - Internal view of EUT



#### Photo 4 - Internal view of EUT



# Photo 5 - Front view of PCB



# Photo 6 - Back view of PCB



Photo 7 - External view of transformer



Photo 8 - External view of transformer



Photo 9 - Internal view of transformer



Photo 10 - External view of USB type-C port



**3.0 Product Photographs** Photo 11 - External view of dual USB ports



# Photo 12 - External view of one USB port



Photo 13 - Top view of power board for USB type-C port



Photo 14 - Bottom view of power board for USB type-C port



Photo 15 - Top view of power board for dual USB ports



Photo 16 - Bottom view of power board for dual USB ports



**3.0 Product Photographs** Photo 17 - Top view of power board for one USB port



Photo 18 - Bottom view of power board for one USB port



#### 4.0 Critical Components Photo Mark(s) of Manufacturer/ Item Technical data and securement Type / model<sup>2</sup> conformity Name no.1 trademark<sup>2</sup> means 3 # Min. V-1 at 1.5 mm thickness SABIC SE1X 105°C Min. V-1 at 1.5 mm thickness SABIC SE1 105°C Min. V-1 at 1.5 mm thickness SABIC SE100 105°C Min. V-0 at 1.5 mm thickness SABIC C2950 85°C Min. V-0 at 1.5 mm thickness SABIC CX7211 85°C Min. V-0 at 1.5 mm thickness EXCY0098 SABIC 85°C 1 1 Enclosure Min. V-0 at 1.5 mm thickness cURus SABIC 945 85°C Min. V-0 at 1.5 mm thickness TEIJIN LN-1250P 125°C Min. V-0 at 1.5 mm thickness TEIJIN LN-1250G 125°C CHI MEI Min. V-1 at 1.5 mm thickness PA-765A Corporation 85°C FORMOSA **CHEMICALS &** Min. V-0 at min. 1,5 mm AC310(+) **FIBRE CORP** thickness, 90°C PLASTICS DIV WALEX T2A Min. V-0, 130°C ELECTRONIC (WUXI) CO LTD WALEX ELECTRONIC T2B Min. V-0, 130°C (WUXI) CO LTD WALEX ELECTRONIC Τ4 Min. V-0, 130°C (WUXI) CO LTD DONGGUAN HE TONG CEM1 Min. V-0, 130°C ELECTRONICS CO LTD DONGGUAN HE TONG 2V0 Min. V-0, 130°C ELECTRONICS CO LTD DONGGUAN HE TONG FR4 Min. V-0, 130°C ELECTRONICS CO LTD CHEERFUL 02 Min. V-0, 130°C ELECTRONIC CHEERFUL 03 Min. V-0, 130°C **ELECTRONIC** CHEERFUL 03A Min. V-0, 130°C 5 2 cURus PCB ELECTRONIC DS2 DAYSUN Min. V-0, 130°C

4.0 0	Critic	al Components				
Photo #	ltem no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
			AREX	02V0 04V0 03V0	Min. V-0, 130°C	
			BRITE PLUS ELECTRONICS	DKV0-3A	Min V. 0. 120°C	
			(SUZHOU) CO LTD	DGV0-3A	Nini. V-0, 130 C	
			SHENZHEN TONGCHUANGXI N ELECTRONICS CO LTD	тсх	Min.V-0, 130°C	
			PACIFIC WIN	PW-02	-Min V-0_130°C	
			INDUSTRIAL LTD	PW-03		
			GOLDEN TRIANGLE PCB & TECHNOLOGIES LTD	GT-D	Min. 1,6 mm thickness, min. V-0, 130°C	
	к К		KUOTIANG ENT LTD	C-2 C-2A	-Min.V-0, 130°C	
			Various	Various	Min.V-0, 130°C	
			Conquer Electronics Co., Ltd.	MST series	T1AL or T2AL, 250V, Rated breaking capacity 100A	
			Ever Island Electric Co., Ltd. and Walter Electric	2010	T1AL or T2AL, 250V, Rated breaking capacity 130A	
			Bel Fuse Ltd.	RST	T1AL or T2AL, 250V, Rated breaking capacity 100A	
			Cooper Bussmann LLC	SS-5	T1AL or T2AL, 250V, Rated breaking capacity 35A	
5	3	Fuse (FS1)	Walter Electronic Co. Ltd.	ICP series	T1AL or T2AL, 250V, Rated breaking capacity 50A	cURus
			Shenzhen Lanson Electronics Co. Ltd.	SMT	T1AL or T2AL, 250V, Rated breaking capacity 35A	
			Das & Sons International Ltd.	385T series	T1AL or T2AL, 250V, Rated breaking capacity 35A	
			Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 series	T1AL or T2AL, 250V, Rated breaking capacity 35A	

4.0 0	Critic	al Components				
Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
			TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group CORPORATION	CD	Y1, max. 1000 pF, min. 250 V	
			SUCCESS ELECTRONICS CO LTD	SE	Y1, max. 1000 pF, min. 250 V	
			SUCCESS ELECTRONICS CO LTD	SB	Y1, AC250V, max 1000pF, 40/125/56/C	
5	4	Y-Capacitor (CY1, CY2)	MURATA MFG CO LTD	кх	Y1, max. 1000 pF, min. 250 V	cURus
		(optional)	WALSIN TECHNOLOGY CORP	АН	Y1, max. 1000 pF, min. 250 V	
			JYA-NAY CO LTD	JN	Y1, max. 1000 pF, min. 250 V	
			HAOHUA ELECTRONIC CO	CT7	Y1, max. 1000 pF, min. 250 V	
			HONGZHI ENTERPRISES LTD	Y	Y1, max. 1000 pF, min. 250 V	
			JERRO ELECTRONICS CORP	JX-series	Y1, max. 1000 pF, min. 250 V	
5	5	Transformer (T1)	GlobTek ENG BOAM HAOPUWEI	XF01036	Class B	NR
			GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Min.130°C	
			Cosmolink	TIW-M	Min.130°C	
			FUKUWARA	TEX-E	Min.130°C	
			Totoku	TIW-2	Min.130°C	
7	6	Transformer (T1) Secondary wire(not shown)	SU ZHOU JIN YOU YU ELECTRONICS CO.,LTD	TAW-B	Min.130°C	cURus
			E&B TECHNOLOGY	E&B-XXXB	Min.130°C	
			CO LTD	E&B-XXXB-1		

4.00	Sritica	al 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>
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW	Reinforced insulation, Class B	
			SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	Reinforced insulation, Class B	
			CHANG CHUN	T375J		
			LTD	T375HF		
9	7	Bobbin	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0.45 mm min.	cURus
			HITACHI CHEMICAL CO LTD	CP-J-8800		
			3M COMPANY	1350F-1		
			MARKETS DIV	1350T-1		
			(EMD)	44		
		Insulating tape of T1(not shown)	BONDTEC PACIFIC CO LTD	370S		
			YAHUA	PZ series		
			SENSITIVE GLUE	CT series		
				WF series		
7	8		JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C	cURus
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX		
			SHEN ZHEN WEI CHUANG DA PACKAGING MATERIALS CO.,LTD.	W-001		
			GlobTek, Inc	GTX-130-TM		
		Insulation	BOAM	BOAM-01	4	
7	9	system(not		ENG130-1	Class B	cURus
79	9	shown)	WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130		COINUS

4.00	Critic	al 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>
			ANHUI CHANGSHENG ELECTRONICS CO LTD	RXF21-1W		
			SHENZHEN GREAT ELECTRONICS CO LTD	RXF-1W		
5	10	Fuse resistor (RF1) (optional)	JIANGSU XINYANG ELECTRONIC COMPONENT CO LTD	RF10-1W	1Ω, 1W	cURus
			SHENZHEN KAYOCOTA ELECTRONICS CO LTD	FRKNP-1WS		
			ANHUI CHANGSHENG ELECTRONICS CO LTD	FRT-1W		
			TZAI YUAN ENTERPRISE CO LTD	KNF1W		
1	11	Output cord(not shown)	Various	Various	Min. 24AWG, min. 300V Min.80 degree C	cURus
				10N471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
				14N471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
			CENTRA	10D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
			SCIENCE CORP	14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
			THINKING	TVR10471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
			ELECTRONIC INDUSTRIAL CO	TVR10471M	Max continuous voltage: 300VAC, 6kV/3kA, 40/125/56	
			LTD	TVR14471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
				SVR10D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
		$\lambda/aristor(MO)/1)$	CO LTD	SVR14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
5	5 12	(optional)(not shown)	CERAMATE TECHNICAL CO	GNR10D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	cURus
		,	LTD	GND14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
				10D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
			LTD	14D471K	Max continuous voltage: 300VAC, 6kV/3kA, 40/85/56	
			Success Electronics Co, Ltd.	SVR10D471K	40/125/56	

4.0 0	<b>Critic</b>	al 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>
			Brightking Electronics Co., Ltd.	471KH10	40/125/56	
			Shantou High- New Technology Dev. Zone Songtian Enterprise Co., Ltd.	10D471K	40/125/56	
NOT	ES:					
1) N	ot all	item numbers are in	ndicated (called out)	) in the photos, as	their location is obvious.	
2) "\	/ariou	s" means any type,	, from any manufact	urer that complies	s with the "Technical data and secur	ement
mea	ns" a	nd meets the "Mark	(s) of conformity" ca	an be used.		
3) In	dicate	es specific marks to	be verified, which a	assures the agree	d level of surveillance for the compo	onent. "NR"
- ind	icates	3 Unlisted and only	visual examination i	s necessary. "Se	e 5.0" indicates Unlisted componen	ts 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.
- 2. <u>Mechanical Assembly</u> 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.
- 5. <u>Grounding</u> This product is not provided with a means of grounding as it is double insulated for Class II model.
- 6. <u>Polarized Connection</u> This product is provided with a polarized power supply connection.

7. Internal Wiring - No internal wiring used.

- 8. <u>Schematics</u> Refer to Illustration No(s). 3-4c for schematics & PCB layout requiring verification during Field Representative Inspection Audits.
- 9. <u>Markings</u> The product is marked as follows: applicant's name or brand name, model number, electrical ratings. Refer to Illustration No. 5 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
GT*46161-*5.0-*	5 Vdc	3.2 A	16 W
GT*46161-*05-*			
GT*46161-**-*	5.1-5.5 Vdc	3.14 A	16 W
(The 3rd "*" can be "5.1" to "5.5" or "05.1" to "05.5"			

# 7.0 Illustrations Illustration 2 - Insulation diagram



TABLE: INSULATION DIAGRAM							Р		
Pollution degree							_		
Over	voltage catego	ry		: II					—
Altitu	ıde			: Up to mult	o 5000m, us iple factor 1	e multiple .48 for MO	factor 1.29 OP	) for MOPP	, _
Addit as ap	tional details or plied parts	n parts co	nsidere	d 🛛 🕅 N : (See	lone 🔲 🛛 Clause 4.6	Areas for details	;)		—
Area	Number and type of Means of Protection: MOOP, MOPP	сті	Workin Vrms	ng voltage V <sub>pk</sub>	Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
Α	1MOOP	UILb	240	-	3.0	3.0	3.7	3.7	Mains opposite polarity
В	2MOPP	ШÞ	240		8.0	6.5	8.2	8.2	Mains (plug pin) to enclosure (accessible position during normal use)
С	2 <b>M</b> OPP	ΪΪÞ	240	-					Mains to external of enclosure (>0.4mm thick plastic enclosure, solid insulation)
D	2МОРР	ШЬ		Max. 48					Secondary to external of enclosure (>0.4mm thick plastic enclosure, solid insulation)
E	2MOPP	₩b	240	352	8.0	6.5	9.0	9.0	Mains to secondary on PCB
F	2MOPP	IIID	240	352	8.0	6.5	9.0	9.0	Mains to secondary on transformer
G	2МОРР	IIIb	240	352	8.0	6.5	10.5	10.5	Mains to secondary on bridge capacitors, see 8.5.1.2 and 8.8.3
н	2MOPP	IIIb		Max. 48					Accessible part per 8.4.2c)

Report No. 170500750SHA-001 GlobTek, Inc.

#### 7.0 Illustrations

**Illustration 5 - Marking label** 

The other models (refer to 2.0) have the same labels except the model number and rating.

CLASS 2 POWER	R SUPPLY 电源供应器
匣P/N(料号):WR9QA	3200USBNMEDR6W
MODEL(型号):GTM461	161-165.0-USB
INPUT(输入):100-240	V~,50-60Hz, 0.45A
OUTPUT(输出):5 V =	- 3.2A,16W



Conforms to AAMI STD.ES60601-1.IEC 60601-1-11 Certified to CAN/CSA STD.C22.2 NO.60601-1

WARNING/AVERTISSEMENT: RISK OF ELECTRIC SHCOK DRY LOCATION USE ONLY FOR INDOOR USE ONLY Risque de choc electrique Utilisation endroit sec Pour une utilisation en interieur See instructions if the input plug does not fit the power outlet



8.0 Test Summary							
Evaluation Period	5/23/2017-6/5/2	2017		Project No. 170500750SHA			
Sample Rec. Date	23-May-2017 Condition Prototype Sample ID. 0170523-76-						
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China						
Test Procedure	Testing Lab						
Determination of the re-	Determination of the result includes consideration of measurement uncertainty from the test equipment and						
methods. The product	methods. The product was tested as indicated below with results in conformance to the relevant test criteria.						
The following tests were	e performed:						
			Medical Electri Requirements Performance	ical Equipment - Part 1: General For Basic Safety And Essential a [AAMI ES60601-1:2005 +A1]			
			Medical Electri Requirements Performance [	ical Equipment - Part 1: General For Basic Safety And Essential CSA C22.2#60601-1:2014 Ed.3]			
Test Description				Clause			
Power Input				4.11			
Humidity Preconditionir	ng			5.7			
Accessible Parts			5.9.2				
Legibility of Markings			7.1.2				
Durability of Markings				7.1.3			
Plug Voltage and/or En	ergy			8.4.3			
Working Voltage Mease	urement		8.5.4				
Earthing			8.6.4				
Leakage Current Test t	erminations		8.7.4				
Dielectric Strength Mea	ins		8.8.3				
Ball Pressure Test				8.8.4.1			
Creepage & Clearance	Measurements			8.9.4			
Surfaces, corners and	edges			9.3			
Excessive Temperature	9			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	uit			15.5.1.2			
Transformer Overload			15.5.1.3				
Transformer Dielectric	Strength		15.5.2				

Test Description	Medical Elec. Equip Part 1-11: Gen. Req. For Basic Safety & Essential Perf Collateral Standard - Req. For Medical Elec. Equip. & Medical Elec. Systems Used In The Home Healthcare Environment [IEC 60601-1-11:2015 Ed.2] Clause
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)

8.0 Test Summary						
Evaluation Period	November 11, 2019 - January 10, 2020 Project No. TWJ			Project No. TWJ19110010		
Sample Rec. Date	23-Oct-2019	Condition Prototype Sample ID. P19070018				
Test Location	Intertek Testing Services Taiwan Ltd. (Taipei office) address: 5F, No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan					
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 construction review and testing record were conducted simultaneously with Report No.: 191000380TWN-001 and 191000382TWN-001.						
Test Description			Medical Electri Requirements Performance Medical Electri Requirements Performance [r	ical Equipment - Part 1: General For Basic Safety And Essential a [AAMI ES60601-1:2005 +A1] ical Equipment - Part 1: General For Basic Safety And Essential CSA C22.2#60601-1:2014 Ed.3] Clause		
Power Input				4.11		
Excessive Temperatur	Excessive Temperature			11.1		
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:	Viper Lai	Reviewed by:	Larry Zhong
Title:	Project Handler	Title:	Reviewer
Signature:	Vaper L.	Signature:	Larry Zhong

# 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
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

None			
LISTEE 2 MODELS	BASIC LISTEE MODELS		
	None		

MULTIPLE LISTEE 3	None	
Address		
Country		
Brand Name		
ASSOCIATED		
MANUFACTURER		
Address		
Country		
MULTIPLE LISTEE 3 MODELS		BASIC LISTEE MODELS

# **10.0 General Information**

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

#### **COMPONENTS**

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

#### LISTING MARK

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

The mark must include the following four items:

1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"

- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

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

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

Can be used together when both standards are used.

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued after signed Certification Agreements have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

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

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

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

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

## **10.1 Evaluation of Unlisted Components**

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

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

Ship the samples to: Intertek Testing Services Taiwan Limited ETL Component Evaluation Center 5/F., No. 423, Ruiguang Road, Neihu District Taipei 114, Taiwan Attn: Sample Room 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 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:			
<u>Product</u>	Test Voltage	<u>Test Time</u>	
For all models between mains part and secondary circuits	4000Vac	60 s	

12.0 Revision Summary				
The following	The following changes are in compliance with the declaration of Section 8.1:			
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
	Project Handler / Viper Lai	1	-	Corrected address of applicant from "186 Veterans Dr. Northvale, NJ 07647 USA" to "186 Veterans Dr. Northvale, NJ 07647"; updated applicant contact from "Hans Moritz" to "Michael Krakovyak", phone no. from "(201)784-1000 Ext.253" to "1.201.784.1000 x106", fax no. from "(201)784-0111" to "1.201.784.0111", email from "Moritzh@globtek.com" to "krakovyakm@globtek.us".
	Reviewer/ Larry Zhong Lamy Zhong	2	-	Revised models from "GT followed by M, - or H; followed by 46161-; followed by 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 or 16; followed by 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 05, 05.1, 05.2, 05.3, 05.4 or 05.5; followed by -USB." to "GT followed by M, - or H; followed by 46161-; followed by 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 or 16; followed by 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 05, 05.1, 05.2, 05.3, 05.4 or 05.5; followed by -USB, -USB1A, -USB2A or -USBC."
24-Mar-2020/ TWJ1911001		3	10-18	Added photos for the alternative types of USB output port
UTVVN			1	Deleted PC-540 by Chi Mei Corporation
			2	Added 03V0 by AREX
		4	3	Revised T1AL to "T1AL or T2AL"
			3	Added alternate second sources
			12	Added alternate second sources
		6	8	Revised sentence from "refer to Illustration No(s). 3-4 for schematics & PCB layout" to "refer to Illustration No(s). 3-4c for schematics & PCB layout"
			1	Updated Model list
		7	3	Added circuits for the alternative types of USB output port
			4a, 4b, 4c	Added layouts for the alternative types of USB output port
			5	Updated label
		8	-	Updated test summary
		9	-	Corrected address of applicant from "186 Veterans Dr. Northvale, NJ 07647 USA" to "186 Veterans Dr. Northvale, NJ 07647".