

1.0 Reference and Address					
Report Number	180800464SHA-001	Original Issued:	8-Aug-2018	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 [CSA C22.2#60601-1:2014 Ed.3]				
	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]				
Applicant	<u>GlobTek, Inc.</u>		Manufacturer	<u>GlobTek (Suzhou) Co., Ltd.</u>	
Address	186 Veterans Dr. Northvale, NJ 07647		Address	Building 4. No 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021	
Country	USA		Country	China	
Contact	Hans Moritz		Contact	Demon Zhou	
Phone	(201)784-1000 Ext.253		Phone	86 512 6279 0301 Ext.189	
FAX	(201)784-0111		FAX	86 512 6279 0355	
Email	<u>Moritzh@globtek.us</u>		Email	<u>demon.zhou@globtek.cn</u>	

2.0 Product Description	
Product	Medical Power Supply
Brand name	GlobTek
Description	<p>Product covered by this report is medical power supply module, which can be used as a part of medical equipment.</p> <p>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.</p> <p>All the types are designed for continuous operation and no applied part is defined.</p> <p>The insulation construction of EUT is evaluated as 2MOPP in this report as customer's request.</p> <p>The products are not intended to use in environment which altitude exceed 3000m.</p> <p>The products have 2 kinds of enclosure which onle differs from the printing.</p> <p>This product should be purchased together with the end equipment, it can not be sold separately.</p>
Models	<p>GT followed by M, - or H; followed by 46402-; followed by 01 to 40; followed by 05 to 48; may be followed by six characters.</p> <p>GT followed by M, - or H; followed by 46402-; followed by 01 to 40; followed by 5.0 to 48.0; may be followed by six characters.</p>
Model Similarity	<p>GT*46402-***</p> <p>The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.</p> <p>The 2nd "*" denotes the rated output wattage designation, with a maximum value of "40".</p> <p>The 3th "*" denotes the standard rated output voltage designation, which can be "05" to "48" or "5.0" to "48.0".</p> <p>The last "*" denote any six character = 0-9 or A-Z or () or [] or – or blank for marketing purposes.</p> <p>The models covered in this report only differ from the rating output and the non-critical components thereof.</p>
Ratings	<p>Input: 100-240V~, 50-60Hz, 1.0A</p> <p>Output: 5-48Vdc; Max. 6A; Max. 40W</p>
Other Ratings	NA

2.0 Product Description

Conditions of Acceptability	<p>The products covered in this Report are incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in other products. Consideration should be given to the following when the component is used in or with another product.</p>
	<p>Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation:</p> <ul style="list-style-type: none">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 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)

3.0 Product Photographs

Photo 1 - External view of EUT



1

Photo 2 - External view of EUT



2

3.0 Product Photographs

Photo 3 - External view of EUT

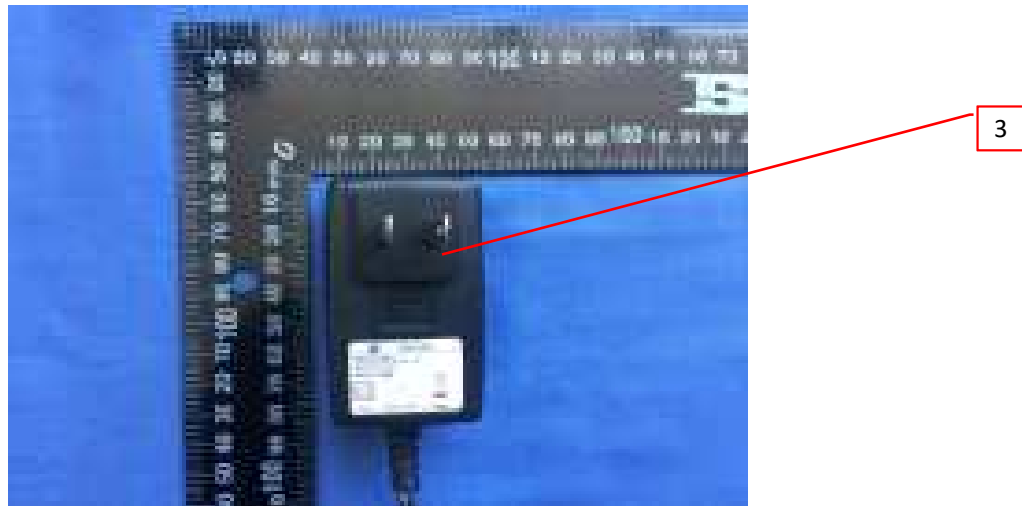
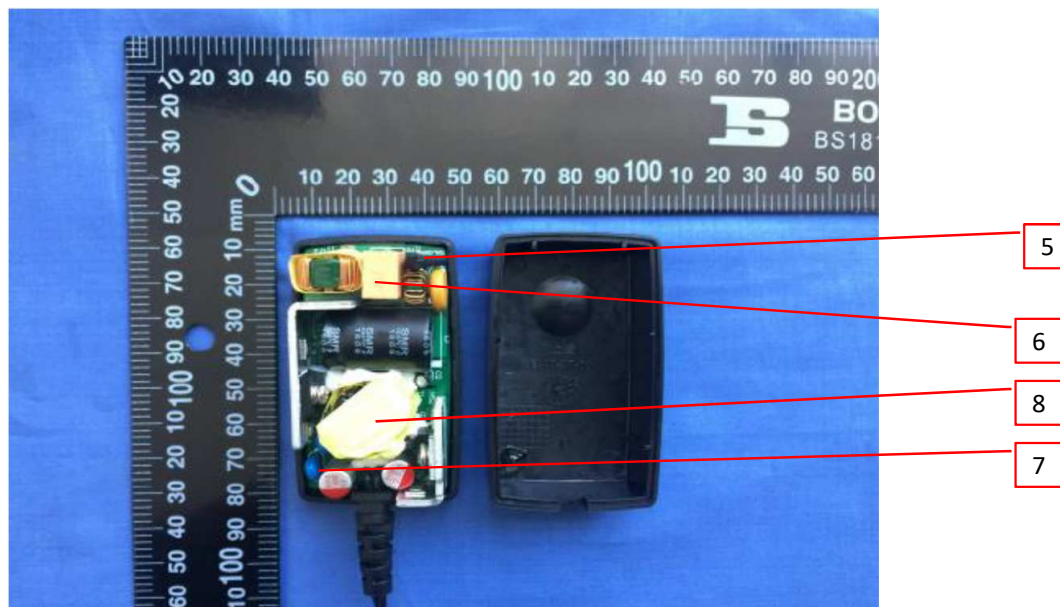


Photo 4 - Internal view of EUT



3.0 Product Photographs

Photo 5 - Internal view of EUT

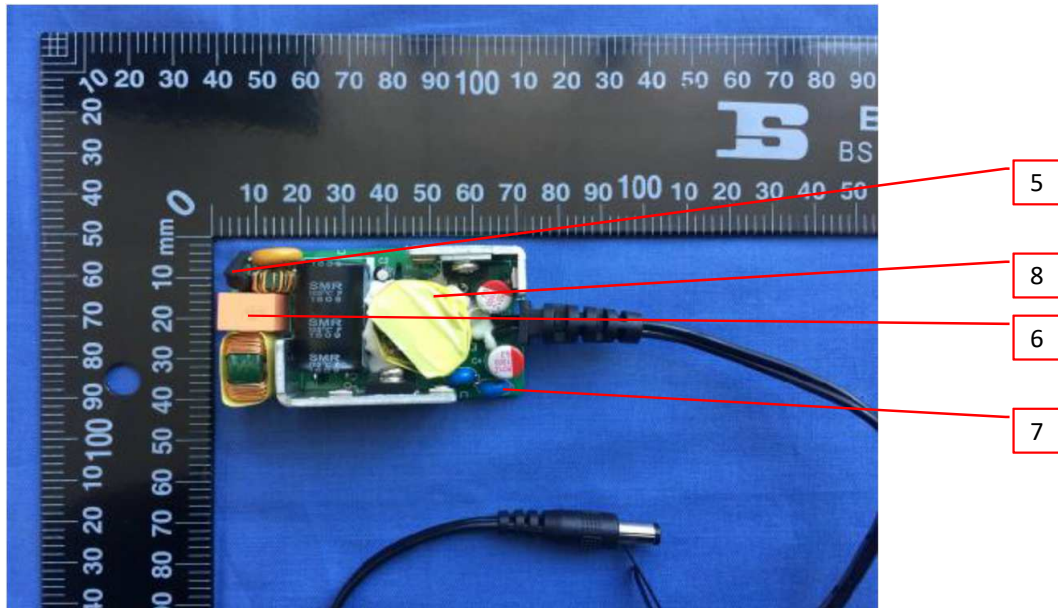
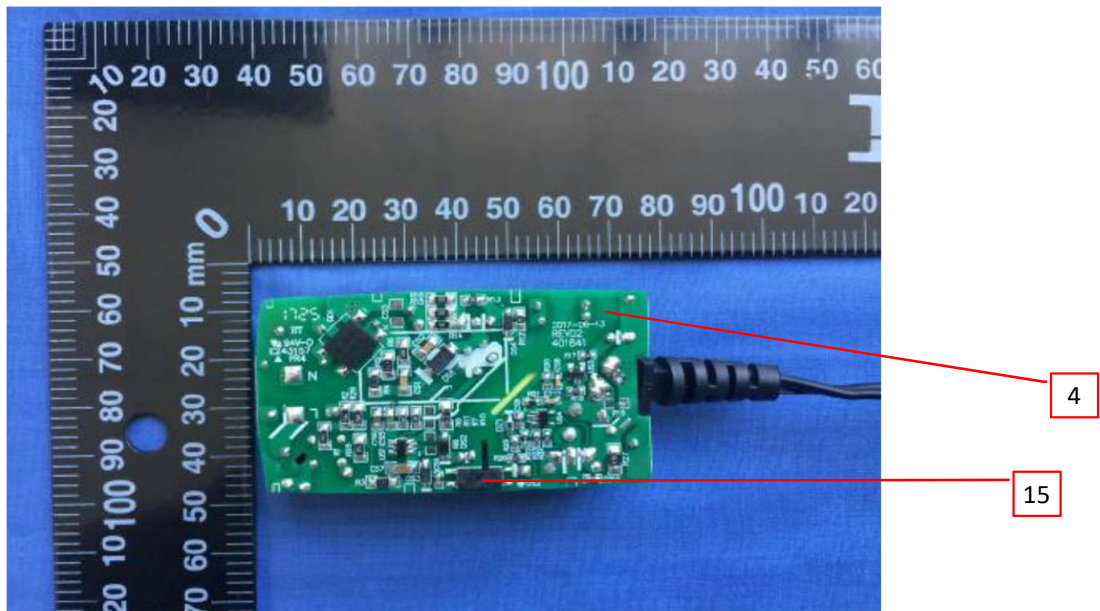


Photo 6 - Internal view of EUT



3.0 Product Photographs

Photo 7 - External view of transformer



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3.0 Product Photographs

Photo 8 - Interval view of transformer

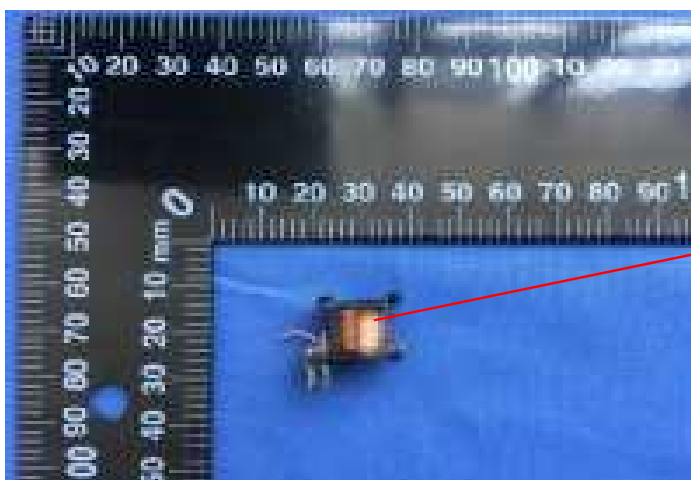


Photo 9 - Internal view of transformer



3.0 Product Photographs

Photo 10 - Bobbin view of transformer

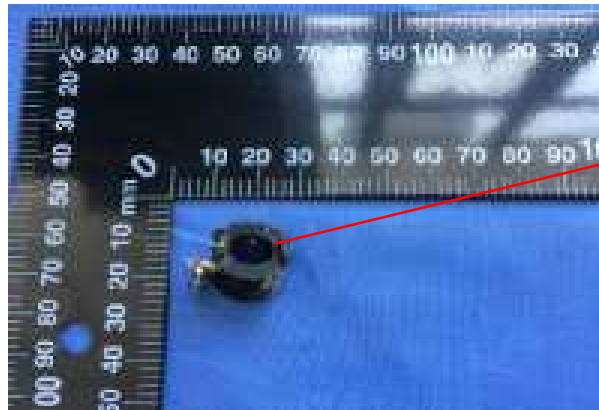


Photo 11 - External View of EUT with alternative enclosure



3.0 Product Photographs

Photo 12 - External View of EUT with alternative enclosure



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1, 11	1	Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	cURus
				SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	
				SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	
				C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	
				CX7211	PC/ABS, Min. V-1, Min. thickness: 2.0mm, 90°C	
				945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	
				EXCY0098	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	
				HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	
			TEIJIN CHEMICALS LTD	LN-1250P	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	cURus
				LN-1250G		
			CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	cURus
				PC-540		
2, 12	2	Plug blade	GlobTek	various	refer to illustration No. 6 in section 7.0 for dimensions	NR
3, 12	3	Plug holder	SABIC INNOVATIVE PLASTICS B V	SE1X	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	cURus
				SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	
				SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	
				C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	
				CX7211	PC/ABS, Min. V-1, Min. thickness: 2.0mm, 90°C	
				945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	
				EXCY0098	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	
				HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	
			TEIJIN CHEMICALS LTD	LN-1250P	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	cURus
				LN-1250G		
			CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	cURus
				PC-540		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6	4	PCB	WALEX ELECTRONIC(WUXI)CO LTD	T2	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
				T2A		
				T2B		
				T4		
			YUANMAN PRINTED CIRCUIT CO LTD	1V0		cURus
			SUZHOU XINKE ELECTRONICS CO LTD	XK1		cURus
				XK-2		
			DONGGUAN HE TONG ELECTRONICS	CEM1		cURus
				2V0		
				FR4		
			KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S		cURus
			Cheerful Electronics(HK)Ltd	02		cURus
				03		
				03A		
			JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1		cURus
			Dongguan Daysun Electronic Co Ltd	DS2		cURus
Suzhou City Yilihua Electronics Co Ltd	YLH-1	cURus				
DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0	cURus				
	03V0					
	04V0					
BRITE PLUS ELECTRONICS(SUZHOUCO LTD	DKV0-3A	cURus				
	DGV0-3A					
KUOTIANG ENT LTD	C-2	cURus				
	C-2A					
SHENZHEN TONGCHUANXIN ELECTRONICS CO LTD	TCX	cURus				
PACIFIC WIN INDUSTRIAL LTD	PW-02	cURus				
	PW-03					
Huizhou Shunjia Electronics Co.,	SJ-B	cURus				

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4, 5	5	Fuse (FS1)	Conquer Electronics Co., Ltd.	SCD-A	T2A, 250V	cURus
			Walter	SBP Series		cURus
			Little fuse	230 Series		cURus
4, 5	6	X capacitor (CX1) (optional)	Cheng Tung Industrial Co., Ltd.	CTX	X1 or X2, Max 0.33μF, Min.250V, 100°C	cURus
			Tenta Electric Industrial Co. Ltd.	MEX		cURus
			Joey	MPX		cURus
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX		cURus
			Xiangtai Electronic (Shenzhen) Co., Ltd.	MKP		cURus
				MPX		cURus
			Carli Electronics Co., Ltd.	MPX		cURus
			Dain Electronics Co., Ltd.	MEX		cURus
				MPX		
				NPX		
			Yuon Yu Electronics Co. Ltd.	MPX		cURus
Sinhua Electronics (Huzhou) Co., Ltd.	MPX	cURus				
Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	cURus				

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4, 5	7	Y capacitor (CY1,CY2) (optional)	TDK-EPC Corporation, Capacitors Group	CD	Min.250V Min.125oC Max.2200pF Y1 or Y2	cURus
			Circuit Devices Business Group	CS		
			Walsin Technology Corp.	AH		cURus
				AC		
			Haohua Electronic Co.	CT 7		cURus
			Xiangtai Electronic (Shenzhen) Co., Ltd.	YO-series		cURus
			JUHONG ELECTRONICS LTD	JB- series		cURus
			Murata Mfg. Co., Ltd.	KX		cURus
				KY		
			SUCCESS ELECTRONICS CO LTD	SE		cURus
				SF		
				SB		
JYA-NAY CO LTD	JN	cURus				
WELSON INDUSTRIAL CO LTD	WD	cURus				
JYH CHUNG ELECTRONICS CO LTD	JD	cURus				
4, 5, 7	8	Transformer	GlobTek	various	Model designation: XF01032(5-8.9V) XF01033(9-14.9V) XF01034(15-24V) XF01035(24.1-48V)	NR
			ENG	various		
			BOAM	various		
			HAOPUWEI	various		
4, 6, 17, 19	8a	Insulation system (not shown)	Globtek	GTX-130-TM	Class B	cURus
			ENG	ENG130-1		cURus
			BOAM	BOAM-01		cURus
				B1		cURus
HAOPUWEI	GTX-130-TM	cURus				

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
10	9	Bobbin	HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	cURus
			CHANG CHUN PLASTICS CO LTD	T375J		cURus
				T375HF		
			SUMITOMO BAKELITE CO LTD	PM-9820	cURus	
		CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0,74 mm min.	cURus	
8	10	Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	cURus
				UEWS/U	MW75-C, 130°C	
			NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW 75-C, 130°C	UR
			BOLUO COUNTY XIN LONG ELECTRICIAN DATA CO LTD	2UEW -F	MW 79-C, 155 °C	cURus
			JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C	cURus
				UEY-2	MW28-C, 130°C	
			ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C	cURus
			SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	cURus
			JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C	cURus
			WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	cURus
			CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C	cURus
			JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
9	11	Triple-insulated wire (Secondary)	Furukawa Electric Co., Ltd.	TEX-E	Class B, reinforced insulation	cURus
			COSMOLINK CO. Ltd.	TIW-M Serie(s)		cURus
			Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)		cURus
			TOTOKU ELECTRIC CO LTD	TIW-2		cURus
			E&B TECHNOLOGY CO LTD	E&B-B-X.XX		cURus
				E&B-XXXB-1		
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW		cURus
			SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B		cURus
7, 8	12	Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1(b)	Min.130°C	cURus
				1350T-1		
				44		
			BONDTEC PACIFIC CO LTD	370S		cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ		cURus
				CT		
				WF		
JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A(b)	cURus				
CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX(a)(b)	cURus				
4, 5	13	PTFE Tubing (not shown)	GREAT HOLDING INDUSTRIAL CO LTD	TFT	Min. 300V, 200°C	cURus
				TFL		
				TFS		
			SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C	cURus
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T	Min. 300V, 200°C	cURus
	CB-TT-S					

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4	14	Varistor MOV1 (Optional) (not shown)	CENTRA SCIENCE CORP	CNR-10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C The coating is V-0	cURus
				CNR-14D471K		
			Lien Shun Electronics Co., Ltd.	10D471K		cURus
				14D471K		
			Joyin Co Ltd	JVT10N471K		cURus
				JVT14N471K		
			Thinking Electronic Industrial Co Ltd	TVR10471K		cURus
				TVR14471K		
			CERAMATE	GNR10D471K		cURus
				GNR14D471K		
Brightking (Shenzhen)Co Ltd	14D471K	cURus				
	10D471K					
Walsin Technology Corp	VZ10D471K	cURus				
	VZ14D471K					
Success Electronics Co Ltd	SVR10D471K	cURus				
	SVR14D471K					
6	15	Photo coupler (US2)	Everlight Electronics Co., Ltd.	EL1018	Dti=0.5mm Int. , dcr=6.0mm EXT.dcr=7.7mm, thermal cycling test,110°C	cURus
			COSMO Electronics Corporation	KT1018	Dti=0.6mm Int. , dcr=4.0mm EXT.dcr=5.0mm, thermal cycling test,115°C	cURus
			Lite-On Technology Corporation	LTV-1004	Dti=0.8mm Int. , EXT.dcr=7.8mm, thermal cycling test,100°C	cURus
NOTES:						
1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.						
2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.						
3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components
No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

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

1. Spacing - Refer to illustration No(s) 2 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 equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings.
5. Grounding - This product is not provided with a means of grounding as it is double insulated for Class II model.
6. Polarized Connection - This product is provided with a polarized power supply connection.
7. Schematics - Refer to Illustration No(s). 3-4 for schematics & PCB layout requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked as follows: brand name, model number, electrical ratings, manufacturer. Refer to Illustration No. 5 for details.
10. Safety Instructions - 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.
11. Transformer - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 8) was constructed as indicated in Illustrations 6 to 9. These records must be available at the factory for inspection on every received shipment.

7.0 Illustrations

Illustration 1 - Insulation diagram

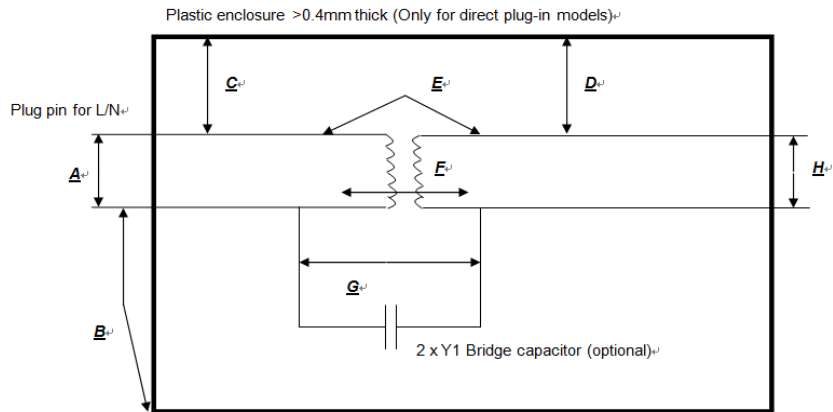
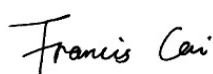



TABLE: INSULATION DIAGRAM									P	
Pollution degree.....									2	—
Overvoltage category.....									II	—
Altitude.....									Up to 3000m, use multiple factor 1.00 for MOPP, multiple factor 1.14 for MOOP	—
Additional details on parts considered as applied parts.....									<input checked="" type="checkbox"/> None <input type="checkbox"/> Areas (See Clause 4.6 for details)	—
Area	Number and type of Means of Protection: MOOP, MOPP	CTI	Working voltage		Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks	
			V _{rms}	V _{pk}						
A	1MOOP	IIIb	240	340	3.0	3.42	3.6	3.6	Mains opposite polarity	
B	2MOPP	IIIb	240	340	8.0	5.0	8.2	8.2	Mains (plug pin) to enclosure (accessible position during normal use)	
C	2MOPP	IIIb	240	340	--	--	--	--	Mains to external of enclosure (>0.4mm thick plastic enclosure, solid insulation)	
D	2MOPP	IIIb	--	Max. 48	--	--	--	--	Secondary to external of enclosure (>0.4mm thick plastic enclosure, solid insulation)	
E	2MOPP	IIIb	240	456	8.0	5.0	10.2	5.3	Mains to secondary on PCB	
F	2MOPP	IIIb	240	456	8.0	5.0	10.2	5.3	Mains to secondary on transformer	
G	2MOPP	IIIb	240	456	8.0	5.0	10.5	10.5	Mains to secondary on bridge capacitors, see 8.5.1.2 and 8.8.3	
H	2MOPP	IIIb	--	Max. 48	--	--	--	--	Accessible part per 8.4.2c)	

8.0 Test Summary			
Evaluation Period	7/19/2017 to 8/6/2018		Project No. 180800464SHA
Sample Rec. Date	19-Jul-2017	Condition Prototype	Sample ID. N/A
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	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 [CSA C22.2#60601-1:2014 Ed.3] Clause		
Power Input	4.11		
Humidity Preconditioning	5.7		
Accessible Parts	5.9.2		
Legibility of Markings	7.1.2		
Durability of Markings	7.1.3		
Plug Voltage and/or Energy	8.4.3		
Leakage Current Test terminations	8.7.4		
Dielectric Strength Means	8.8.3		
Ball Pressure Test	8.8.4.1		
Creepage & Clearance Measurements	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-Circuit	15.5.1.2		
Transformer Overload	15.5.1.3		
Transformer Dielectric Strength	15.5.2		

Test Description	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] 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)		

8.1 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:	Francis Cai	Reviewed by:	Justin Yu
Title:	Project engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

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

MULTIPLE LISTEE 1	None				
Address					
Country					
Brand Name					
ASSOCIATED MANUFACTURER					
Address					
Country					
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">MULTIPLE LISTEE 1 MODELS</td> <td style="width: 50%;">BASIC LISTEE MODELS</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS		
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS				

MULTIPLE LISTEE 2	None				
Address					
Country					
Brand Name					
ASSOCIATED MANUFACTURER					
Address					
Country					
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">MULTIPLE LISTEE 2 MODELS</td> <td style="width: 50%;">BASIC LISTEE MODELS</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS		
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS				

MULTIPLE LISTEE 3	None				
Address					
Country					
Brand Name					
ASSOCIATED MANUFACTURER					
Address					
Country					
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10.0 General Information

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

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

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

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

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

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

Can be used together when both standards are used.

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification**

Agreements have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

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

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

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

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

10.1 Evaluation of Unlisted Components

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

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

Ship the samples to:

Intertek Testing Services Shanghai Limited

ETL Component Evaluation Center

Building No. 86, 1198 Qinzhou Road (North)

Shanghai 200233, China

Attn: Ms. 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.

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
 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:

Product - 100% of production of the products covered by this Report	Test Voltage	Test Time
All the product covered by this report Between mains part and secondary circuits	4000Vac	1 s
Product - Transformer of Section 4.0 item 8	Test Voltage	Test Time
Between prim. and sec. output	4000Vac	1 min
Between prim. and core	1500Vac	1 min

12.0 Revision Summary

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
				None