

RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address						
Report Number	130300179SHA-001 Original Issued:	16-Apr-2013	Revised: None			
Standard(s)	Medical Electrical Equipment, Part 1: General Requirements for Basic Safety and Essential Performance (ANSI/AAMI ES60601-1 Issued: 2006/03/09: 2005 Version (R2012); with AMD C1: 2009, AMD C2: 2010 & CAN/CSA-C22.2 No.60601-1 Issued: 2008/02/01; with COR 2: 2011/06/01)					
Applicant	GlobTek, Inc.	Manufacturer	GlobTek (Suzhou) Co., Ltd.			
Address	186 Veterans Dr. Northvale, NJ 07647 USA	Address	Building 4. No 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021			
Country	USA	Country	China			
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	Moritzh@globtek.com	Email	demon.zhou@globtek.cn			

Report No. 130300179SHA-001 GlobTek, Inc.

2.0 Product Description Medical Power Supply **Product** Brand name GlobTek Product covered by this report is medical power supply module, which can be used as a part of medical equipment. It is direct plug-in power adapter with interchangeable plug portion, which is Class II apparatus. It can be used with different plug types. The evaluation report of NEMA 5-15 Description plug type is also attached with this report. Two pieces of outer enclosure are enclosed with ultrasonic welding without screw. It is designed for continuous operation and no applied part is defined. Insulation between mains part and secondary circuits is evaluated as 2MOPP. GTM43033-*** (The 1st "*" part can be "01" to "06", with interval of 1; The 2nd "*" part can be " 03", "04" "06", "12", "15", "18", "24", "36" or "48"; The 3rd "*" part can be "-0.1" to "-11.9", with Models interval of 0.1 or blank.) GTM43033-*** The 1st "*" part denotes the rated output wattage designation, which can be "01" to "06", with interval of 1. The 2nd "*" part denotes the standard rated output voltage designation, which can be "03", "04" "06","12", "15", "18", "24", "36" or "48". These standard rated output voltage designations Model Similarity correspond to three transformer models. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil. The 3rd"*" part is optional, which can be "-0.1" to "-11.9" with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different. The result by subtracting the deviation value from the standard rated output voltage denotes the rated output voltage, with a range of 3 - 48 Input: 100-240V~, 50-60Hz, 0.3A; Ratings Output: Refer to illustration No.1 for details. Other Ratings N/A

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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

- 1. 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),
- Risk Management was excluded from this investigation.
- For Power Supplies with No RM: End product Risk Management Process to include consideration of requirements specific to the Power Supply.
- For Power Supplies with No RM: End product Risk Management Process to consider the acceptability of risk for the following components that were identified as High-Integrity Component: i.e. Fuse (F1/F2).

• For Power Supplies with No RM: End product Risk Management Process to consider the need for simultaneous fault condition testing.

- For Power Supplies with No RM: End product Risk Management Process to consider the need for different orientations of installation during testing.
- For Power Supplies with No RM and Insulating Materials: End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the movement of components as part of the power supply.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the movement of conductors as part of the power supply.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the routing of wires away from moving parts and sharp edges as part of the power supply.
- For Power Supplies with No RM or Units without Cleaning/Disinfection Methods: End product to determine the acceptability of risk in conjunction to the Cleaning and Disinfection Methods as part of the power supply.
- For Power Supplies with No RM or Units with Enclosures: End product to determine the acceptability of risk in conjunction to the results of Mechanical Testing conducted as part of the power supply.
- For Power Supplies with No RM: End product to determine the acceptability of risk in conjunction to the selection of components as it pertains to the intended use, essential performance, transport, storage conditions as part of the power supply.

Conditions of Acceptability

4.0 Critical Components Photo Manufacturer/ Mark(s) of Item Technical data and securement Name Type / model² no.1 trademark² means conformity³ # **SABIC** Min. V-1 at 1.5 mm thickness, 105 **INNOVATIVE** SE1X PLASTICS B V SABIC Min. V-0 at 1.5 mm thickness, 75° **INNOVATIVE** C2950 PLASTICS B V **SABIC** CX7211 Min. V-1 at 1.25 mm thickness, 85 cURus 1 1 Plastic enclosure INNOVATIVE EXCY0098 PLASTICS B V **TEIJIN** LN-1250P Min. V-0 at 1.5 mm thickness, 115 CHEMICALS LTD LN-1250G CHI MEI Min. V-1 at 1.5 mm thickness, 80° PA-765A Corporation CHI MEI Min. V-0 at 1.5 mm thickness, 70° PC-540 Corporation **DONGGUAN** XIANGQUAN Type XQ03 PRINTING CO LTD FAN JA PAPER Type FJ-03-3 PRINTING CO LTD FAN JA PAPER PRINTING CO Type FJ07 LTD DONGGUAN **XIANGQUAN** Rated min 80℃ Type XQ004-B PRINTING CO cURus Suitable for use on the plastic LTD 1 2 Label enclosure **E-LIN ADHESIVE** Type EL-15 LABEL CO LTD **SHENZHEN CORWIN** CW-01 PRINTING CO LTD YUEN CHANG **SPECIAL PRINTING** JL-08 (SHENZHEN) CO LTD Various Various NR GlobTek Various Engraving or Silkscreen (Optional) 4 Various 3 Output cord Various Min.24AWG, min.300V, min.80℃ cURus

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4.0 (Critica	al Components				
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Conquer Electronics Co., Ltd.	MST	T1A, 250V, Rated breaking capacity 100A	
			Ever Island Electric Co., Ltd. and Walter Electric	2010	T1A, 250V, Rated breaking capacity 130A	
4	4	Fuse (FS1, FS2)	Bel Fuse Ltd.	RST	T1A, 250V, Rated breaking capacity 100A	cURus
-	7	1 436 (1 51, 1 52)	Cooper Bussmann LLC	SS-5	T1A, 250V, Rated breaking capacity 35A	Lords
			Walter Electronic Co. Ltd.	ICP series	T1A, 250V, Rated breaking capacity 50A	
			Das & Sons International Ltd.	385T series	T1A, 250V, Rated breaking capacity 35A	
			Shenzhen Lanson Electronics Co. Ltd.	SMT	T1A, 250V, Rated breaking capacity 35A	
4, 6- 10	5	Transformer (T1)	GlobTek BOAM ZhongTong	XF00852 (3-3.9V) XF00857 (4-8.9V) XF00853 (9-15V) XF00862 (15.1-35.9V) XF00850 (36-48V)	Class A	NR
4,		Triple-insulated	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)		
6- 10	5a	wire (Secondary)	COSMOLINK CO LTD	TIW-M	Min.130℃ 	cURus
			FURUKAWA ELECTRIC CO LTD	TEX-E		
	4, 6- 10		CHANG CHUN PLASTICS CO LTD	T375J T375HF		
6-		b Bobbin	Bobbin SUMITOMO BAKELITE CO LTD		PM-9820 V-0, 150°C, thickness 0.45 mm min.	cURus
			HITACHI CHEMICAL CO LTD	CP-J-8800		

4.0 (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			
			3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350T-1					
			BONDTEC PACIFIC CO LTD	370S					
4, 6-	5c	Insulating tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT	Min.130℃	cURus			
10	10		JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A					
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX					
4	6	Optocoupler	LITE-ON Technology Corporation	LTV-817C	2MOPP at working voltage	СВ			
·	J	(U2)	Everlight Electronics Co., Ltd.	EL817	250Vrms, 100℃				
			TDK-EPC CORPORATION	CD					
			SUCCESS ELECTRONICS CO LTD	SE SB					
			MURATA MFG CO LTD	KX					
4	7	Y-Capacitor (CY1, CY2)	WALSIN TECHNOLOGY CORP	АН	Type Y1, max. 1000pF, min.	cURus			
-	'	(optional)	JYA-NAY CO LTD	JN	250V, min. 125℃	COINGS			
			HAOHUA ELECTRONIC CO	СТ7]				
			HONGZHI ENTERPRISES LTD	Y					
			JERRO ELECTRONICS CORP	JX-series					

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 ³
			JOYIN CO LTD CENTRA	07N471K 10N471K 14N471K 07D471K 10D471K		
			SCIENCE CORP	14D471K		
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR07471K TVR10471K TVR14471K		
			SUCCESS ELECTRONICS CO LTD	SVR07D471K SVR10D471K SVR14D471K		
4	8	Varistor (MOV1) (optional)	CERAMATE TECHNICAL CO LTD BRIGHTKING	GNR07D471K GNR10D471K GND14D471K 07D471K	Maximum continuous voltage: 300V	cURus
			(SHENZHEN) CO	10D471K		
			LTD LIEN SHUN	14D471K 07D471K	-	
			ELECTRONICS	10D471K		
			CO LTD HONGZHI	14D471K HEL-7D471K		
			ENTERPRISES	HEL-10D471K		
			LTD	HEL-14D471K]	
			GUANGXI NEW FUTURE	07047414		
			INFORMATION	07D471K 10D471K		
			INDUSTRY CO	14D471K		
			LTD			
			TECHNI TECHNOLOGY	T2A T2B		
			LTD	T4		
			DONGGUAN HE		1	
			TONG ELECTRONICS CO LTD	CEM1		
			CHEERFUL	03	1	
			ELECTRONIC DONGGUAN	03A	4	
			DAYSUN ELECTRONIC CO LTD	DS2		
4	9	PCB material	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min 1.6 mm thickness, min. V-0, 130℃	cURus
			SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0		
			BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A		
			Various	Various		

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 ³
11	10	Plug portion	Various	Various	NEMA 5-15, referring to illustration No(s). 7-12 for details.	NR
	I 11 I 11 I		SABIC INNOVATIVE PLASTICS B V	SE1X	Min. V-1 at 1.5 mm thickness, 105 ℃	
		Blade holder material	SABIC INNOVATIVE PLASTICS B V	C2950	Min. V-0 at 1.5 mm thickness, 75° C	
11			SABIC INNOVATIVE PLASTICS B V	CX7211 EXCY0098	Min. V-1 at 1.25 mm thickness, 85 ℃	cURus
			TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	Min. V-0 at 1.5 mm thickness, 115 ℃	
			CHI MEI Corporation	PA-765A	Min. V-1 at 1.5 mm thickness, 80° C	
			CHI MEI Corporation	PC-540	Min. V-0 at 1.5 mm thickness, 70° C	

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
- 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR"

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5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

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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) 2-3 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 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.
- Grounding Class II appliance.
- 6. Polarized Connection This product is provided with a polarized power supply connection.
- Internal Wiring Final determination in end-product evaluation.
- Schematics Refer to Illustration No(s). 4-5 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. 6 for details.
- 10. Cautionary Markings Refer to illustrations No. 6 for details.
- 11. 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.

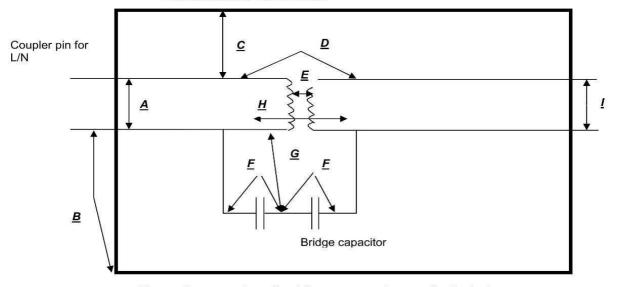
7.0 Illustrations

Illustration 1 - Model list

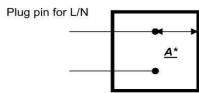
Model	Rated output voltage range	Max. rated output current	Max. rated output power
GTM43033-*03	3Vdc	2A	6W
GTM43033-*04*	3.1-4V	1.94A	6W
GTM43033-*06*	4.1-6V	1.46A	6W
GTM43033-*12*	6.1-12V	0.98A	6W
GTM43033-*15*	12.1-15V	0.50A	6W
GTM43033-*18*	15.1-18V	0.40A	6W
GTM43033-*24*	18.1-24V	0.33A	6W
GTM43033-*36*	24.1-36V	0.25A	6W
GTM43033-*48*	36.1-48V	0.16A	6W

Illustration 2 - INSULATION DIAGRAM

Plastic enclosure >0.4mm thick



Plug portion connector without the power supply correctly attached



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7.0 Illustrations

Illustration 3 - TABLE: Insulation diagram (measured values)

TABLE: Insulation diagram (measured values)								Р					
Pollu	tion degree			:	2						-		
Over	oltage categor	y		:	Ш						3 <u>. 3</u>		
Altitu	de			:	300	0m							
	ional details on ed parts				-	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Areas l.6 for detai	ls)			8 <u></u> 9		
Area	Number and type of Means of Protection: MOOP, MOPP	CTI (IIIb, unless is known)	Working voltage Vrms Vp		voltage		k	Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	R	emarks
Α	ВОР	IIIb	240	(-111		3	2.14	3.8	3.8		ite polarity ns part		
A*	2MOOP	IIIb	240	340		4.8	4.74	5.6	5.6	plug pi portion connec plugge socket power	sible part to in for plug when the ctor is in the without the supply tly attached.		
В	2МООР	IIIb	240	340	Wild	4.8	4.7 ⁴	9.2	9.2	portion enclos (acces	sible n during		
С	2МООР	IIIb	240	340	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.8	4.74	5.4	5.4		ll mains part essible outer ure		
D	2МОРР	IIIb	240 ¹			7.9 ²	5.0	8.0 ³	8.0 ³	High control of the service of	part to dary circuits oupler)		
E	2MOPP	IIIb	270 ¹	-	The state of the s	8.6 ²	7.0	9.0	9.0	second	part to dary circuits former)		
F	MOPP (Each) x 2	IIIb	240 ¹	- -		4.0 ²	2.5	7.0	7.0		part to dary circuits acitor x 2)		
G	MOPP	IIIb	240 ¹		A CARE	4.0 ²	2.5	4.0 ⁴	2.6	capaci	part to 2 nd Y tor first pin- n PCB trace)		
Н	2МОРР	IIIb	240 ¹			7.9 ²	5.0	8.04	7.8		part to dary circuits B trace)		
I	2MOPP	IIIb		Max 48	ζ.					Access per 8.4	sible part .2 c)		

Note:

- 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.
- Linear interpolation is applied to the determination of required creepage.
- The minimum creepage and clearance is selected from all the types of optocouplers.
- There is a slot min. 1 mm wide between these two parts.
- Multiplication factor for MOOP: 1.14; Multiplication factor for MOPP: 1.00.

7.0 Illustrations

Illustration 6 - Marking label

The marking plates of the other models listed in this report are identical with below except model name and output parameter.



7.0 Illustrations

Illustration 7 - Appendix: Equipment's combined with NEMA 5-15 plug portion

Section	Key	Comment
FORWARD		
Introduction		
1		Scope
1.1-1.4	G	The device under evaluation is an integral plug for medical power supply GTM43033-*** whose input rated 100-240V~, 50-60Hz, 0.3A. The plug is evaluated according to rated input.
2		Glossary
2.1-2.38	G	Noted.
3		Components
3.1-3.4	G	Noted
4		Units of Measurement
4.1	G	Noted
5		Reference
5.1	G	Noted
CONSTRUCTI	ON	
		ALL DEVICES
6		General
6.1	√	According to declared reasonable condition, 100-240VAC, 50-60Hz, has been considered in all following test.
6.2	√	Plug for AC use only
7		Configurations
7.1	√	1-15P plug applied.
8		Insulating Materials
8.1		General
8.1.1	√	All parts that act as the electrical insulation or enclosure are made of plastic material. See 8.2.1
8.1.2	N/A	Vulcanized fiber is not provided
8.2		Flammability
8.2.1	√	The insulating material required HB or more. For detailed parts, see report of end product)
8.3		Electrical properties
8.3.1	√	Exception No. 1: No information according to above table info. The insulating material has a CTI 3 (Required 3), so it need NOT comply with Comparative Tracking Index Test, Section 55.
8.3.2	V	Exception No. 2: The insulating material has a HWI 3, (required HWI value is 4 when material class is V-0). According to 8.1.2 (UL746D) and reasonable usage, reasonable arcing occurs in normal use. We are of the opinion that it need NOT comply with Glow Wire Test, see Section 56. Exception No. 3: The insulating material has a HAI 2. (required HWI value is 4 when material class is V-0. or check if the thickness), since no arcing in normal use, so it need not comply with High-Current Arc Resistance to Ignition Test, Section 57.
8.4	200	Thermal properties
8.4.1	1	All the RTI rating of the insulating materials are higher than 80 degree (C)
8.5		Vulcanized fiber

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7.0 Illustrations

Illustration 8 - Appendix: Equipment's combined with NEMA 5-15 plug portion (cont.)

Section	Key	Comment		
8.5.1	N/A	No Vulcanized fiber is provided		
8.5.2	N/A	No Vulcanized fiber is provided		
8.6		Sealing compounds		
8.6.1-8.6.2	N/A	Sealing compound is not provided, no need to comply with relevant requirement involved in ASTM 28.		
8.7		Fuse enclosures		
8.7.1-8.7.2	N/A	Fuse is not provided		
9		Enclosure		
9.1		General		
9.1.1	√	Live parts of plug parts are protected against exposure to contact by persons when fully assembled using all essential parts. Exception no. 2: for fixed wiring.		
9.1.2-9.1.3	N/A	No accessible dead-metal parts		
9.1.4	√	The probe shown in Figure 9.1 is used to judge the accessibility of a live or deadmetal part. The applied force is not more than 13.3N.		
9.1.5-9.1.7	N/A	No such separable part		
9.2		Male faces and wire terminations		
9.2.1	N/A	Not a 15 or 20A attachment plug or current tap		
9.2.2	N/A	There is no exposed live part.		
9.2.3	N/A	No such parts		
9.2.4-9.2.5	√	Probe not access to live parts. The cover is securely fixed for all acceptable wiring.		
9.2.6	V	The face plate is secure with the back part.		
10		Current-carrying Parts		
10.1		General		
10.1.1	4	Iron or steel is not used for current-carrying parts.		
10.1.2	√	The current-carrying parts are not able to be turned by means of general tools due to the appliance shroud mounted on Evaluated appliance.		
10.1.3	N/A	No such uninsulated live parts except for female contact of connector		
10.2		Contacts (applying to the connector)		
10.2.1	N/A	Female contacts of the connector cannot be touched by the probe. Others parts are covered by exception no. 3		
11		Grounding and Dead Metal Parts		
11.1-11.10	N/A	No grounding parts		
12		Terminals		
12.1-12.4		No terminals for end user		
13		Cord Entry and Strain Relief		
13.1-13.5	N/A	Flexible cord part are considered in the end appliances.		
14		Spacings		
14.1	√	The spacing through air between uninsulated live parts of opposite polarity and between uninsulated live parts and exposed external surface is measured more than 2mm (required 3/36 inch, 1,2mm) for a device rated 250V or less.		
14.2	N/A	No such isolated dead-metal part		
15		Assembly		
15.1		General		
15.1.1	- √	Pre-wired in factory		

7.0 Illustrations

Illustration 9 - Appendix: Equipment's combined with NEMA 5-15 plug portion (cont.)

Section	Key	Comment			
15.1.2	V	Electrical contact is reliably maintained at any point			
15.1.3	V	Live parts is protected against exposure to persons			
15.1.4	N/A	Not multiple outlet device			
15.1.5	N/A	Female contacts of the connector can be mated with the inlet in right way without exposure of the blades			
15.2		Grounding and polarization			
15.2.1-15.2.4	N/A	No grounding			
15.3		Mating and interchangeability			
15.3.1	√	The electrical continuity is automatically established.			
15.3.2-15.3.6	√	1-15P receptacles ensuring.			
15.4		Fuseholders			
15.4.1-15.4.8	N/A	Fuseholder is not provided			
15.5		Switches			
15.5.1	N/A	The switch is provided between coupler 1 and coupler 2. but it is a information			
ATTACHMENT	PLUGS A	ND INLETS (for plug only)			
16		Insulating material			
16.1	√	The enclosure is measured min. 2.1 mm.			
17		Enclosure			
17.1		General			
17.1.1	N/A	Not a general use plug.			
17.1.2	√	Measured 44 mm.			
17.1.3	N/A	Not a 50A plug			
17.2		Grip			
17.2.1	N/A	See section 69			
17.3		Face size			
17.3.1	√	Larger than figure 17.1			
18		Current carrying parts			
18.1	N/A	Not a folded-over plug.			
18.2	V	Dimensional requirements fulfilled.			
19		Grounding and dead metal parts			
19.1-19.4	N/A	No grounding or dead metal parts.			
20		Terminals and leads			
20.1-20.5	N/A	All the assembly are pre-wired in factory			
21		Assembly			
21.1	√	The blades are held securely in place			
21.2	N/A	Not a inlet			
21.3-21.4	N/A	The device under evaluate is a plug part not inlet or surface mounting.			
21.5	N/A	Not for radio antenna or ground.			
22		Weatherproof type			
22.1-22.2	N/A	Not weatherproof type			
23-26	N/A	CONNECTORS			
27-37	N/A	RECEPTACLES			
-		SELF-CONTAINED RECEPTACLES FOR USE WITHOUT A SEPARATE OUTLET BOX			

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7.0 Illustrations

Illustration 10 - Appendix: Equipment's combined with NEMA 5-15 plug portion (cont.)

Section	Key	Comment
38-44	N/A	These sections are applicable for self-contained receptacles.
		CURRENT TAPS
45	N/A	The section is applicable for current taps only
		FLATIRON AND APPLIANCE PLUGS
46-53	N/A	These sections are applicable for flatiron and appliance plugs.
PERFORMANC	E	
		GENERAL
54		Representative Devices
54.1-54.7	G	Noted.
		ALL DEVICES
55		Comparative Tracking Index Test
55.1	N/A	Refer to Exception No. 2 of 8.3.2. Not main tests but the test is considered
56		Glow Wire Test
56.1-56.2	N/A	Refer to Exception No. 2 of 8.3.2, Not main tests but the test is considered
57		High-Current Arc Resistance to Ignition Test
57.1-57.6	G	Refer to Exception No. 3 of 8.3.2
58		Mold Stress Relief
58.1-58.2	Т	All devices are placed in air oven maintained at a 80oC for 7 hours. After 58.2, there is not any warpage, shrinkage or other distortion.
58.3	т	Refer to data sheet. Repeat dielectric voltage-withstand test as described in section 60. Not required to be subjected to the humidity conditioning described in 60.1.2.
59		Moisture Absorption Resistance
59.1-59.2	Т	Refer to data sheet
60		Dielectric Withstand Test
60.1-60.2	Т	Refer to data sheet
61		Accelerated Aging Tests
61.1		General
61.1.1	G	Exception to 8.4.1 for other material is not applicable for the devices under evaluation
61.2		Rubber, EPDM, and TEE compounds
61.2.1-61.2.4	N/A	Not a rubber , EPDM, and TEE compounds
61.3		PVC compounds and copolymers
61.3.1-61.3.2	G	See 61.1.1 shown as above
62		Insulation Resistance Test
62.1-62.6	T	Refer to data sheet
63		Conductor Secureness Test
63.1-63.2	N/A	No wire leads provided.
64		Tightening Torque Test
64.1-64.2	N/A	Not provide any wire-binding screw
	N/A	ATTACHMENT PLUGS
65		General
65.1	G	Noted.
66		Security of blades test

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7.0 Illustrations

Illustration 11 - Appendix: Equipment's combined with NEMA 5-15 plug portion (cont.)

Section	Key	Comment
66.1-66.2	T	Refer to data sheet
67		Secureness of cover test
67.1-67.2	Т	Refer to data sheet
68		Crushing test
68.1-68.2	Т	Refer to data sheet
69		Attachment plug grip test
69.1-69.9	Т	Refer to data sheet
70		Integrity of assembly test
70.1-70.2	N/A	Cord part shall be considered in the end appliance.
71		Self-hinge Flexing test
71.1-71.3	N/A	Not self-hinge type
72		Terminal temperature test
72.1-72.4	N/A	No terminal for end user.
73		Fuse-holder temperature test
73.1-73.8	N/A	No fuse-holder applied.
74-79	N/A	Pin type terminal
80-85	N/A	INLET (applying for inlet)
86-103	N/A	CONNECTORS
104-150	N/A	RECEPTACLES
		CURRENT-TAPS
		All devices
151-152	N/A	These sections are for current-taps
		Flatiron and appliance plugs.
153-161	N/A	These sections are applicable for flatiron and appliance plugs.
RATINGS		
162		Details
162.1	G	According to exception no. 2, rating is not required. The special-use device is not intended to ship out solely. (Note: plug is mounted in evaluated appliance).
162.2	V	Rating of 1A 120V~ is evaluated
162.3	V	0.5HP rated.
162.4-162.7	N/A	Not have the specified devices
MARKINGS AND	INSTRU	ICTIONS
163		General
163.1-163.2	G	The location of the catalog number is not prohibited from appearing according to exceptions of table 163.1 and 163.2
164		Identification and marking of terminals
164	G	No any grounding parts and terminals
SUPPLEMENT SA		(reserved for future use)
SUPPLEMENT SB		ENCLOSURE TYPES FOR ENVIRONMENTAL PROTECTION
SB1-SB7	N/A	The requirements of SB don't apply to the device under evaluation for it's intended for indoor use only (refer to SB1.1)
SUPPLEMENT SC		MARINE SHORE POWER INLETS

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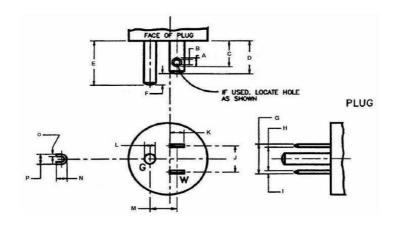
Revised: None

7.0 Illustrations

Illustration 12 - Appendix: Equipment's combined with NEMA 5-15 plug portion (cont.)

Section	Key	Comment
SC1-SC12	N/A	These sections are for marine shore power inlets
SUPPLEMENT SD		HOSPITAL GRADE DEVICES
SD1-SD30	N/A	These sections are for hospital grade devices

Appendix 7: Dimensions of NEMA 5-15 plug portion



Symbol	Requirement inch (mm)	Measured (mm)	Symbol	Requirement inch(mm)	Measured (mm)
Α	0.125 (3.18)	3.17	1	$0.065 (1.65) \ge I \ge 0.055$ (1.40)	1.48
В	0.156 (3.96)	3.88	J	0.505 (12.82) ≥ I ≥ 0.495 (12.57)	12.76
С	0.546 (13.76) ≥ C ≥ 0.537 (13.00)	13.03	К	0.260 (6.60) ≥ K ≥ 0.240 (6.10)	6.28
D	(18.24) ≥ D ≥ 0.625 (15.88)	17.10	L	$0.190 (4.82) \ge L \ge 0.184$ (4.67)	N/A
Е	E ≤ 0.843 (21.41)	N/A	М	0.473 (12.01) ≥ M ≥ 0.463 (11.76)	N/A
F	F ≥ 0.125 (3.18)	N/A	N	0.190 (4.82) ≥ N ≥ 0.184 (4.67)	N/A
G	0 < 0 575 (44.00)	14.24	0	$O \ge 0.038^{1)}(0.96)$	N/A
	G ≤ 0.575 (14.60)			$O \ge 0.027^{1)} (0.68)$	N/A
Н	H ≥ 0.425 (10.80)	11.23	Р	0.190 (4.82) ≥ P ≥ 0.184 (4.67)	N/A
Perimeter faces to the plug blades shall not be less than 7.9 mm from any point of either blade					12.39

^{1) 0.038&}lt;sup>1)</sup> (0.96) min is used on U shape, and 0.027¹⁾ (0.68) is used on tubular shape.

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8.0 Test Summary				
Evaluation Period	2013-03-07 ~ 2013-04-15	Project No. 130300179SHA		
Sample Rec. Date	7-Mar-2013 Condition	Sample ID. 0130307-39-001		
Test Location	Building No.86, 1198 Qinzhou Ro	ad (North), Shang	hai 200233. China	
Test Procedure	Testing Lab	<u>, ,, ,, ,, , , , , , , , , , , , , , ,</u>		
Determination of the re	esult includes consideration of mea	asurement uncerta	ainty from the test equipment and	
methods. The product	t was tested as indicated below wit	th results in confor	mance to the relevant test criteria.	
The following tests we	re performed:			
Requir Perforr 2006/03/ 2009, AME Issued		Requirement Performance 2006/03/09: 20 2009, AMD C2:	cal Electrical Equipment, Part 1: General uirements for Basic Safety and Essential ormance (ANSI/AAMI ES60601-1 Issued: 3/09: 2005 Version (R2012); with AMD C1: //D C2: 2010 & CAN/CSA-C22.2 No.60601-1 ed: 2008/02/01; with COR 2: 2011/06/01)	
Test Description Power Input			Clause	
Humidity Preconditioni	na		4.11	
Accessible Parts	ng	5.7		
Legibility of Markings		5.9.2		
Durability of Markings		7.1.2 7.1.3		
Plug Voltage and/or Er	Perav	8.4.3		
Working Voltage Meas		8.5.4		
Leakage Current Test		8.7.4		
Dielectric Strength Mea		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		
Drop Test		15.3.4		
Moulding Stress Relief		15.3.6		
Transformer Short-Circ		15.5.1.2		
Transformer Overload	the second secon	15.5.1.3		
Transformer Dielectric Strength		15.5.2		

8.1 Signatures			The second second
A representative s	ample of the product covered by t	his report has been ev	valuated and found to comply with the
	ments of the standards indicated i	n Section 1.0.	
Completed by:	Jamie Wu	Reviewed by:	Karl Zhong
Title:	Project engineer	Title:	Reviewer
			1 1 00
Signature:	Janie Vu	Signature:	Carl Bhoy

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 USA 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**

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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

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.
- 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.

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10.1 Evaluation of Unlisted Components

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

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

> Ship the samples to: Intertek Testing Services Shanghai Limited **ETL Component Evaluation Center** Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233, China

Attn: Ms. Dansy Xu

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

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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>	<u>Test Voltage</u>	Test Time
Between mains part and secondary circuits	4000V	1 s

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

Date/
Proj # Site ID

Reviewer

Section
Item
Description of Change
None

Issued: 16-Apr-2013