

RECOGNIZED COMPONENT Constructional Data Report (CDR)

1.0 Reference and Address							
Report Number	130501062SHA-001 Original Issued:	1-Jul-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.				
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Report No. 130501062SHA-001 GlobTek, Inc.

2.0 Product Description Product Power Supply GlobTek Brand name Product covered by this report is medical power supply module which can be used as a part of medical equipment. And its output is rated 5Vdc USB port. The device 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 reports of the different plug Description types are also attached with this report. Two pieces of outer enclosure are enclosed with ultrasonic welding without screw. All the types are designed for continuous operation and no applied part is defined. Insulation between mains part and secondary circuits is evaluated as 2MOPP. GT*41078-*05-USB (The 1st "*" part can be 'M' or '-' or 'H'; The 2nd "*" part can be "01" to "06", Models with interval of 1.) GT*41078-*05-USB The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" part denotes the rated output wattage designation, which can be "01" to "06", with Model Similarity Test performed on model GTM41078-0605-USB as worst condition, and also performed on other output models for reference. Input: 100-240V~, 50-60Hz, 0.3A, Class II; Ratings Output: 5Vdc, Max.1.2A (Refer to Model Similarity 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:
- 60601-1 Clause 7.5 (Safety Signs),
- 60601-1 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.),
- 60601-1 Clause 8.11.5 (Mains Fuse with High Breaking Capacity),
- 60601-1 Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated,
- 60601-1 Clause 10 (Radiation),
- 60601-1 Clause 11.7 (Biocompatibility),
- 60601-1 Clause 14 (PEMS),
- 60601-1 Clause 16 (ME Systems)
- 60601-1 Clause 17 (EMC),
- 60601-1 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 (FS1/FS2).

• 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/ Item Mark(s) of Technical data and securement Type / model² Name trademark² no.1 means conformity⁵ # SABIC INNOVATIVE Min. V-1 at 1.5 mm thickness, SE1X PLASTICS B V 105℃ SABIC INNOVATIVE Min. V-0 at 1.5 mm thickness, 75 C2950 PLASTICS B V Plastic enclosure SABIC INNOVATIVE CX7211 Min. V-1 at 1.25 mm thickness, 1, 1 & Blade holder cURus 11 PLASTICS B V EXCY0098 85℃ material **TEIJIN CHEMICALS** LN-1250P Min. V-0 at 1.5 mm thickness, LTD LN-1250G 115℃ Min. V-1 at 1.5 mm thickness, 80 CHI MEI Corporation PA-765A Min. V-0 at 1.5 mm thickness, 70 CHI MEI Corporation PC-540 \mathcal{C} **DONGGUAN** XIANGQUAN Type XQ03 PRINTING CO LTD FAN JA PAPER Type FJ-03-3 PRINTING CO LTD FAN JA PAPER Type FJ07 PRINTING CO LTD **DONGGUAN** Type XQ004-B Rated min 80℃ XIANGQUAN Suitable for use on the plastic PRINTING CO LTD 1 2 Marking label cURus enclosure E-LIN ADHESIVE Type EL-15 LABEL CO LTD **SHENZHEN** CORWIN PRINTING CW-01 CO LTD YUEN CHANG SPECIAL PRINTING JL-08 (SHENZHEN) CO LTD Various Various GlobTek Engraving or Silkscreen Various T1A, 250V, Rated breaking Conquer Electronics **MST** Co., Ltd. capacity 100A **Ever Island Electric** T1A, 250V, Rated breaking Co., Ltd. and Walter 2010 capacity 130A Electric T1A, 250V, Rated breaking **RST** Bel Fuse Ltd. capacity 100A Fuse (FS1, FS2) 3 3 T1A, 250V, Rated breaking cURus Cooper Bussmann (FS2 is optional) SS-5 LLC capacity 35A Walter Electronic Co T1A, 250V, Rated breaking ICP series Ltd. capacity 50A Das & Sons T1A, 250V, Rated breaking 385T series International Ltd. capacity 35A T1A, 250V, Rated breaking Shenzhen Lanson **SMT** Electronics Co. Ltd. capacity 35A

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4

(Not shown)

(optional)

3

Revised: None 4.0 Critical Components Photo Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name trademark² no.1 means conformity⁵ # SHENZHEN WOER **RSFR HEAT-SHRINKABLE** RSFR-H 600V, 125℃ RSFR-HPF MATERIAL CO LTD **QIFURUI** 600V, 125℃ QFR-h **ELECTRONICS CO** SALIPT S-Insulation tube DONGGUAN 901-300 Min. 300V, 125℃ used on the fuse SALIPT CO LTD SALIPT S-3 cURus (Only for fuse ICP 901-600 model) **GUANGZHOU** KAIHENG K-2 (+) Min. 300V, 125℃ **ENTERPRISE** K-2 (CB) **GROUP** CHANGYUAN **ELECTRONICS CB-HFT** Min. 300V, 125℃ (SHENZHEN) CO LTD 07N471K JOYIN CO LTD 10N471K 14N471K 07D471K CENTRA SCIENCE 10D471K CORP 14D471K **THINKING** TVR07471K **ELECTRONIC** TVR10471K **INDUSTRIAL CO** TVR14471K LTD SUCCESS SVR07D471K **ELECTRONICS CO** SVR10D471K SVR14D471K LTD Varistor (MOV1) **CERAMATE** GNR07D471K Maximum continuous voltage: cURus.

GNR10D471K

GND14D471K

07D471K

10D471K 14D471K

07D471K

10D471K 14D471K

07D471K

10D471K

14D471K

HEL-07D471K

HEL-10D471K

HEL-14D471K

300Vac

TECHNICAL CO

(SHENZHEN) CO

ELECTRONICS CO

ENTERPRISES LTD

INDUSTRY CO LTD

GUANGXI NEW

INFORMATION

BRIGHTKING

LIEN SHUN

HONGZHI

FUTURE

LTD

LTD

LTD

VDE

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4.0 Critical Components Photo Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name no.1 trademark² means conformity⁵ # TDK-EPC Type Y1, max. 470pF, min. CD **CORPORATION** 250V, min. 85℃ **SUCCESS** Type Y1, max. 470pF, min. SE **ELECTRONICS CO** SB 250V, min. 125℃ LTD Type Y1, max. 470pF, min. MURATA MFG CO ΚX 250V, min. 125℃ LTD WALSIN Type Y1, max. 470pF, min. TECHNOLOGY AΗ Y-Capacitor 250V, min. 125℃ CORP 3 5 (CY1, CY2) cURus Type Y1, max. 470pF, min. (optional) JYA-NAY CO LTD JN 250V, min. 125℃ **HAOHUA** Type Y1, max. 470pF, min. CT7 **ELECTRONIC CO** 250V, min. 125℃ **HONGZHI** Type Y1, max. 470pF, min. **ENTERPRISES** 250V, min. 85℃ LTD **JERRO** Type Y1, max. 470pF, min. **ELECTRONICS** JX-series 250V, min. 85℃ **CORP** Ext. Cr: min. 8.0 mm; DTI: min. LITE-ON Technology LTV-817C 0.6 mm; Thermal cycling test. Corporation Max. operating temp.: 115℃. Optocoupler 3 6 CB (U2) Everlight Ext. Cr: min. 7.7 mm; DTI: min. Electronics Co., EL817 0.5 mm; Thermal cycling test. Max. operating temp.: 110℃. Ltd. **ENG** 3, GlobTek Class A, with critical component 7 XF00868 NR 5-Transformer (T1) **BOAM** listed below 10 ZhongTong **CHANG CHUN** T375J PLASTICS CO LTD T375HF 3, SUMITOMO V-0, 150℃, thickness 0.45 mm 5-Bobbin cURus 7a PM-9820 BAKELITE CO LTD min. 10 **HITACHI** CP-J-8800 CHEMICAL CO LTD 3M COMPANY ELECTRICAL 1350F-1 MARKETS DIV 1350T-1 (EMD) **BONDTEC PACIFIC** 370S CO LTD JINGJIANG YAHUA 3, **PRESSURE** PΖ Min.130℃ cURus 5-7b Insulating tape CT SENSITIVE GLUE 10 CO LTD JINGJIANG JINGYI **ADHESIVE** JY25-A PRODUCT CO LTD CHANG SHU LIANG YI TAPE INDUSTRY LY-XX CO LTD

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4.0 Critical Components Photo Manufacturer/ Mark(s) of Item Technical data and securement Type / model² Name trademark² means no.1 conformity³ # PACIFIC ELECTRIC WIRE & CABLE UEWN/U (SHENZHEN) CO LTD JUNG SHING WIRE UEW-4 CO LTD UEY-2 JIANGSU HONGLIU MAGNET WIRE 2UEW/130 **TECHNOLOGY CO** LTD CHANGZHOU 3, DAYANG WIRE & 2UEW/130 Magnet wire 5-7c 130℃ cURus CABLE CO LTD (Primary winding) 10 **WUXI JUFENG** COMPOUND LINE 2UEWB CO LTD **JIANGSU** DARTONG M & E **UEW** CO LTD SHANDONG SAINT UEW/130 ELECTRIC CO LTD ZHEJIANG LANGLI **ELECTRIC UEW EQUIPMENTS CO** LTD **GREAT LEOFLON** INDUSTRIAL CO TRW(B) LTD 3, Triple-insulated COSMOLINK CO TIW-M 5-7d wire (Secondary Min. 130℃ cURus LTD 10 winding) **FURUKAWA** TEX-E ELECTRIC CO LTD TOTOKU ELECTRIC TIW-2 CO LTD

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4.0 0	Critica	al Components				
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			TECHNI TECHNOLOGY LTD	T2A T2B T4		
			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1		
			CHEERFUL ELECTRONIC	02 03 03A	Min 1.6 mm thickness, min. V-0, 130℃	
3	8	PCB material	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2		cURus
			SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1		
			SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0		
			BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A		
			Various	Various		
11	9	Plug portion	GlobTek	Q-NA(R)	NEMA 1-15P, referring to illustration No(s). 6-11 for details.	NR

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.

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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

<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.

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

- 1. Spacing Refer to illustration No(s) 1-2 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 and metal enclosure earthed with ventilation holes other than those specifically described in Sections 4 and 5.
- 5. Grounding Class II appliance.
- 6. Polarized Connection This product is provided with a polarized power supply connection.
- 7. Internal Wiring Final determination in end-product evaluation.
- 8. <u>Schematics</u> Refer to Illustration No(s). 3-4 for schematics & PCB layout requiring verification during Field Representative Inspection Audits.
- 9. <u>Markings</u> The product is marked as follows: brand name, model number, electrical ratings, manufacturer. Refer to Illustration No. 5 for details.
- 10. Cautionary Markings Refer to illustrations No. 5 for details.
- 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.

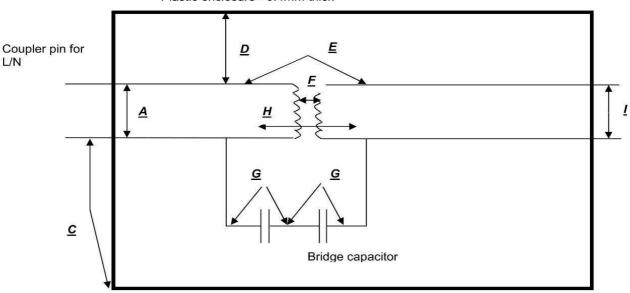
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7.0 Illustrations

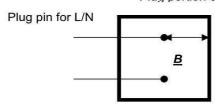
Illustration 1 - INSULATION DIAGRAM

INSULATION DIAGRAM

Plastic enclosure >0.4mm thick



Plug portion connector without the power supply correctly attached



GlobTek, Inc.

Revised: None

7.0 Illustrations

Illustration 2 - TABLE: Insulation diagram (measured values)

Pollution degree:				: 2	2					
Overvoltage category::						-				
Altitude:					3000m		_			
Additional details on parts considered as applied parts:					⊠ None □ (See Clause 4	Areas l.6 for detai	ils)			-
Area	Number and type of Means of Protection: MOOP, MOPP	CTI (IIIb, unless is known)	Wor volt Vrms	king age Vpk	Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	R	Remarks
Α	ВОР	IIIb	240	340	3	1.9 ¹	3.6	3.6		ite polarity ns part
В	2MOOP	IIIb	240	340	4.8	4.6 ¹	5.6	5.6	the conto acce when to portion in the s withou	in-out on nnector side essible part the plug n is plugged socket at the power ocorrectly ed.
С	2МООР	IIIb	240	340	4.8	4.6 ¹	9.0	9.0	portion enclos (acces	sible on during
D	2MOOP	IIIb	240	340	4.8	4.6 ⁵	5.1	5.1		al mains part essible outer ure
E	2MOPP	IIIb	240 ³		7.9 ²	5.0	8.04	8.0 ⁴	secon	part to dary circuits coupler)
F	2MOPP	IIIb	240 ³		7.9 ²	5.0	8.9 ⁵	8.9 ⁵	secon	part to dary circuits former)
G	MOPP (Each) x 2	IIIb	240 ³		4.0 ²	2.5	4.06	2.5	secon	part to dary circuits acitor x 2)
н	2MOPP	IIIb	240 ³		7.9 ²	5.0	8.2	8.2	secon	part to dary circuits PCB trace)
1	2МООР	IIIb		Max. 5Vdd	707				Access per 8.4	sible part .2 c)

Note:

- 1) Multiplication factor for MOOP: 1.14; Multiplication factor for MOPP: 1.00.
- 2) Linear interpolation is applied to the determination of required creepage.
- The working voltage is highest measured value which acquired by testing all the models listed in the report at the rated input voltage, but not less than the rated input voltage.
- 4) The minimum creepage and clearance is selected from all the types of optocouplers.
- 5) The transformer core regarded as primary conductor is wrapped with 2 layers of insulating tape and the secondary pin-out adopts the jump lead wire soldering.
- 6) There is a slot min. 1 mm wide between two sides of pads of components.

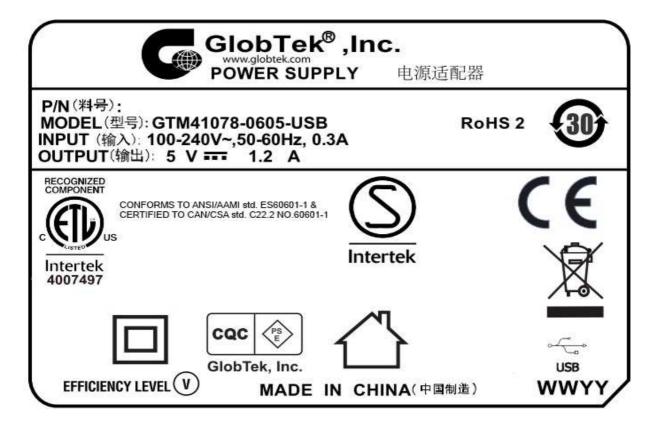
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7.0 Illustrations

Illustration 5 - Marking label

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



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7.0 Illustrations

Illustration 6 - Appendix: Equipment's combined with NEMA 1-15P plug portion

KEY:

 $\sqrt{\ }$ = Complies. G = General comment E = Further evaluation required N/A = Not applicable E $\sqrt{\ }$ = Once "E" is found acceptable T = Testing required

F = Non-compliance TF = Test failed

Section	Key	Comment		
FORWARD				
Introduction				
1	Ĩ	Scope		
1.1-1.4	G	The device under evaluation is an integral plug for medical power supply GT*41078-*05-USBwhose 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	V	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		Thermal properties		
8.4.1	V	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 7 - Appendix: Equipment's combined with NEMA 1-15P 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	Ì	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	1	The face plate is secure with the back part.
10		Current-carrying Parts
10.1		General
10.1.1	1	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	V	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

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7.0 Illustrations

Illustration 8 - Appendix: Equipment's combined with NEMA 1-15P 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		

Revised: None

7.0 Illustrations

Illustration 9 - Appendix: Equipment's combined with NEMA 1-15P 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	Т	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 10 - Appendix: Equipment's combined with NEMA 1-15P plug portion (cont.)

Section	Key	Comment		
66.1-66.2	Т	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	20			
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	√	Rating of 1A 120V~ is evaluated		
162.3	√	0.5HP rated.		
162.4-162.7	N/A	Not have the specified devices		
MARKINGS AND	INSTRU	JCTIONS		
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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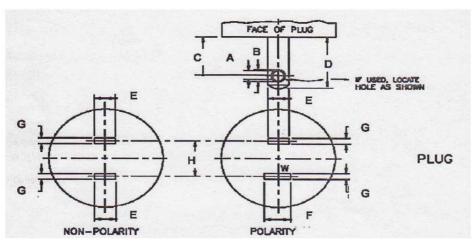
Revised: None

7.0 Illustrations

Illustration 11 - Appendix: Equipment's combined with NEMA 1-15P 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: Dimensions of NEMA 1-15P plug portion



Symbol	Requirement (inch)	Measured (inch)	Symbol	Requirement (inch)	Measured (inch)
Α	0.120 - 0.130	0.123	E	0.240 - 0.260	0.248
В	0.151 - 0.161	0.157	F	0.307 - 0.322	
С	0.449 - 0.479	0.466	G	0.055 - 0.065	0.057
D	0.625 - 0.718	0.656	Н	0.495 - 0.505	0.498
	faces to the plug blades s			ended for use with	12.39

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8.0 Test Summary				
Evaluation Period	2013-06-07 ~ 2013-07-01		Project No. 130501062SHA	
Sample Rec. Date	1-Jul-2013 Condition	Prototype	Sample ID. 0130607-46-001	
Test Location	Building No.86, 1198 Qinzhou Ro			
Test Procedure	Testing Lab		The state of the s	
Determination of the	result includes consideration of mea	surement uncertain	ty from the test equipment and	
	ct was tested as indicated below wit			
The following tests we	ere performed:	· · · · · · · · · · · · · · · · · · ·		
Too! Description		Requirements Performance 2006/03/09: 200 2009, AMD C2: 20	rical Equipment, Part 1: General s for Basic Safety and Essential (ANSI/AAMI ES60601-1 Issued: D5 Version (R2012); with AMD C1: 010 & CAN/CSA-C22.2 No.60601-1 02/01; with COR 2: 2011/06/01)	
Test Description Power Input			Clause	
Humidity Precondition	ing		4.11 5.7	
Accessible Parts	mig		5.9.2	
Legibility of Markings	· · · · · · · · · · · · · · · · · · ·		7.1.2	
Durability of Markings			7.1.3	
Plug Voltage and/or E			8.4.3	
Working Voltage Mea		8.5.4		
Leakage Current Test			8.7.4	
Dielectric Strength Me			8.8.3	
Ball Pressure Test			8.8.4.1	
Creepage & Clearanc	e Measurements		8.9.4	
Excessive Temperatu			11.1	
Single Fault Condition			13.2	
Push Test			15.3.2	
Drop Test			15.3.4	
Moulding Stress Relie	f		15.3.6	
Transformer Short-Cir			15.5.1.2	
Transformer Overload			15.5.1.3	
Transformer Dielectric	Strength		15.5.2	

8.1 Signatures A representative sam	ple of the product covered by thi	s report has been ev	aluated and found to comply with the
Completed by:	Jamie Wu	Reviewed by:	Karl Zhong
Title:	Project engineer	Title:	Reviewer
Signature:	Janie Wa	Signature:	Cord Blog

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 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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Issued: 1-Jul-2013 GlobTek, Inc. Revised: None

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:

- 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

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

Issued: 1-Jul-2013