

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

1.0 Reference a	1.0 Reference and Address					
Report Number	130100670SHA-001	Original Issued:	9-Apr-2013	Revised: 18-Sep-2016		
Standard(s)	Class 2 Power Units [UL 1310:2011 Ed.6 +R:12Dec2014] Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]					
Applicant	<u>GlobTek, Inc.</u>		Manufacturer	GlobTek ( Suzhou) Co., Ltd		
Address	186 Veterans Dr. No USA	rthvale, NJ 07647	Address	Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, China		
Country	USA		Country	CHINA		
Contact	Mr. HANS Moritz		Contact	Ms.Demon Zhou		
Phone	(201)784-1000		Phone	86 512 6279 0301 Ext 178		
FAX	(201)784-0111		FAX	86 512 6279 0355		
Email	Moritzh@globtek.cor	<u>n</u>	Email	demon.zhou@globtek.cn		

Page 1 of 50

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Conditions of

Acceptability

#### **2.0 Product Description** Product Class 2 Power Supply GlobTek, Inc. Brand name The products covered by this report are class 2 power supplies which is supplied by 100-240V Description 50-60Hz mains. The direct plug-in models are intended to be used by travelers and the open frame type models are intended to be installed in end product. GT\*41080-\*\*\*\* (where \* in the model name are numbers or letters or blank) Models The 1st "\*" can be "M" or "-" or "H" for market identification and not related to safety The 2nd "\*" denote the rated output wattage designation, which can be "01" to "18", with interval of 1. The 3rd "\*" denote the standard rated output voltage designation, which can be "07", "11" "17.9", "30", "38". The 4th "\*" is optional deviation, subtracted from standard output voltage, which can be "-0.1" to "-12" with interval of 0,1, or blank to indicate no voltage different. The 3rd and 4th "\*\*" together denote the output voltage, with a range of 5 - 36 volts. The last "\*" is optional, which can be "-F" or blank. The model name with "-F" means a open frame power supply. Model Similarity 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 similar PCB, but PCB for models with "-F" is longer than models without "-F" due to input and output dip type terminals employed. Some non-critical components may be adjusted according different output voltage. The parameters of these components depend on output voltage. Models with "-F" are built-in power supply boards with open frame construction which contained dip type terminals. These models shall be installed and evaluated in end product. Two type transformers is optional, these two transformers are with same construction except different routing of secondary lead wires. Input: 100-240V~, 50-60Hz, 0,6A; Ratings Output: 5-36VDC, Max 18W Other Ratings NA The products covered in this Report are incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in other products. Consideration should be given to the following when the component is used in or with another product. 1. Suitability of the enclosure for open frame type models should be evaluated when installed in the end product. The products shall be enclosed in a enclosure without any openings. 2. Temperature Testing and Abnormal testing under an over-temperature condition should be

performed on open frame type models when installed in the end product.

manufacturer's specification and shall be evaluated in end product.

15P), the corresponding national safety regulation shall be considered.

peak reduction networks and components in the end product.

3. For open frame type models, the suitable wiring and terminals shall be adopted according

4. For open frame type models, in this report, products are considered as no earthing means provided. They should be evaluated in end product if earthing conductor is connected.

6. For direct plug-in models with a 125 V 15 A (parallel) input blade configuration (NEMA 1-

5. The open frame type models shall be installed on the load side of line filters or similar voltage

# **3.0 Product Photographs**

# Photo 1 - External view (For direct plug-in models, With optional BS, US, SAA and EU plug)

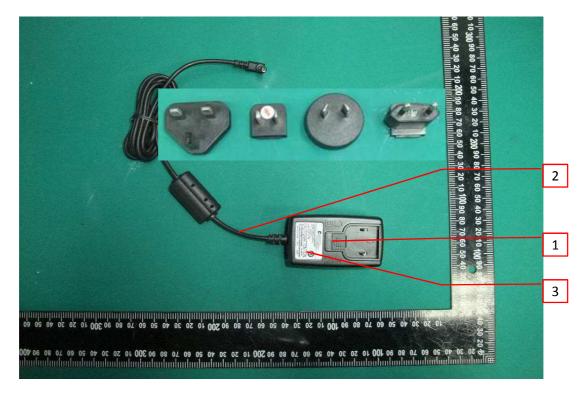
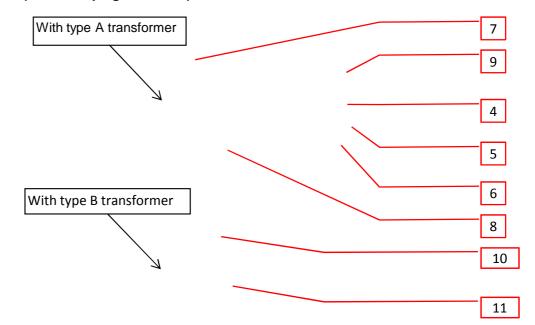
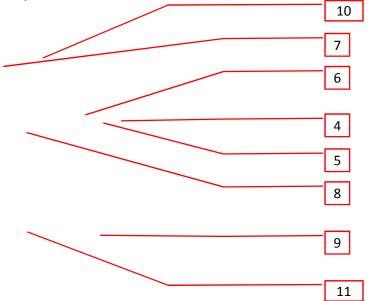


Photo 2 - Internal view (For direct plug-in models)



# **3.0 Product Photographs**

## Photo 3 - Overview (for open frame type models)



4.0	Critic	al Components				
Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			SABIC INNOVATIVE PLASTICS B V	SE1X	PPE+PS, V-1, HWI 0, HAI 0, 105°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
			SABIC INNOVATIVE PLASTICS B V	C2950	PC/ABS, V-0, HWI 3, HAI 0, 75°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
			SABIC INNOVATIVE PLASTICS B V	CX7211	PC/ABS, V-0, 5VB, HWI 2, HAI 0, 90°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
1	1	Enclosure and Blade holder (for direct plug-in models)	SABIC INNOVATIVE PLASTICS B V	EXCY0098	PC/ABS, V-0, 5VB, HWI 2, HAI 0, 90°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
			TEIJIN CHEMICALS LTD	LN-1250P	PC, V-0, HWI 3, HAI 0, 115°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
			TEIJIN CHEMICALS LTD	LN-1250G	PC, V-0, HWI 3, HAI 0, 115°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
			CHI MEI CORPORATION	PA-765A	ABS, V-0, 5VB, HWI 3, HAI 0, 80°C, min thickness: 2,0mm; Fixed by ultrasonic welding and without opening;	cURus
			DONGGUAN YUE YANG WIRE & CABLE CO LTD	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			DONGGUAN YUE YANG WIRE & CABLE CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			DONGGUAN YUE YANG WIRE & CABLE CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus

4.0	Critic	al Components				
Photo #	ltem no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			HIP TAI ELECTRIC WIRE CO	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			HIP TAI ELECTRIC WIRE CO	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			HIP TAI ELECTRIC WIRE CO	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
		Output and the	SHENG YU ENTERPRISE CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
1	2	Output cord (for direct plug-in models)	SHENG YU ENTERPRISE CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			SUZHOU HONGMENG ELECTRONIC CO LTD	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			SUZHOU HONGMENG ELECTRONIC CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
			SUZHOU HONGMENG ELECTRONIC CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus

	Critical Componen	ts	-		I
Photo #	Item no. <sup>1</sup> Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
		ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1185	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
		ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	2464	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
		ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	2468	Min. 24AWG, 300V, 80°C, length: 1.8m;	cURus
		YONG HAO ELECTRICAL INDUSTRY CO LTD	SPT-1	Min. 24AWG, 300V, 105°C, length: 1.8m;	cURus
		YONG HAO ELECTRICAL INDUSTRY CO LTD	SPT-2	Min. 24AWG, 300V, 105°C, length: 1.8m;	cURus
		JHI WEI ELECTRIC WIRE & CABLE CO LTD		Min. 24AWG, 300V, 105°C, length: 1.8m;	cURus
		JHI WEI ELECTRIC WIRE & CABLE CO LTD		Min. 24AWG, 300V, 105°C, length: 1.8m;	cURus
		ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	SPT-1	Min. 24AWG, 300V, 105°C, length: 1.8m;	cURus
		ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	SPT-2	Min. 24AWG, 300V, 105°C, length: 1.8m;	cURus
		Various	Various	Min. 24AWG, min. 300V, min. 80°C, length: min. 1.8m, performance parameter shall be equal to 1185, 2464, 2468, SPT-1 or SPT-2.	cURus

4.0 0	O Critical Components					
Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			DONGGUAN XIANGQUAN PRINTING CO LTD	XQ03	Temperature range: -40~80°C;	cURus
			FAN JA PAPER PRINTING CO LTD	FJ-03-3	Temperature range: -40~80°C;	cURus
			FAN JA PAPER PRINTING CO LTD	FJ07	Temperature range: -40~80°C;	cURus
1	3	Adhesive-Type	DONGGUAN XIANGQUAN PRINTING CO LTD	XQ004-B	Temperature range: 80°C;	cURus
'	5	Label	E-LIN ADHESIVE LABEL CO LTD	EL-15	Temperature range: -40~80°C;	cURus
			SHENZHEN CORWIN PRINTING CO LTD	CW-01	Temperature range: -40~80°C; UL MH47077	cURus
			YUEN CHANG SPECIAL PRINTING (SHENZHEN) CO LTD	JL-08	Temperature range: 0~80°C;	cURus
			Various	Various	Temperature range: min. 80°C; certified according UL 969.	cURus
			TECHNI TECHNOLOGY LTD	T2A	V-0, 130°C; Thickness: 1.6mm;	cURus
			TECHNI TECHNOLOGY LTD	T2B	V-0, 130°C; Thickness: 1.6mm;	cURus
			TECHNI TECHNOLOGY LTD	Т4	V-0, 130°C; Thickness: 1.6mm;	cURus
			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1	V-0, 130°C; Thickness: 1.6mm;	cURus
			CHEERFUL ELECTRONIC (HK) LTD	03	V-0, 130°C; Thickness: 1.6mm;	cURus
			CHEERFUL ELECTRONIC (HK) LTD	03A	V-0, 130°C; Thickness: 1.6mm;	cURus
2, 3	4	PWB	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	V-0, 130°C; Thickness: 1.6mm;	cURus

4.0 0	Critic	al Components	-			
Photo #	ltem no.1	o. <sup>1</sup> Name trademark <sup>2</sup> Ty		Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
			SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	V-0, 130°C; Thickness: 1.6mm;	cURus
			SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0	V-0, 130°C; Thickness: 1.6mm;	cURus
			BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A	V-0, 130°C; Thickness: 1.6mm;	cURus
			Various	Various	V-0, 130°C; Thickness: 1.6mm; certified according UL 796	cURus
			CONQUER ELECTRONICS CO LTD	MST	250Vac, 1.6A, Length: 8.35 x 4.3 x 7.7mm;	cURus
			EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	250Vac, 1.6A;	cURus
		Current fuse (FS1, FS2) (FS2 is optional)	BEL FUSE INC	RST	250Vac, 1.6A, Length: 6.8 x 3.0 x 3.6mm;	cURus
2, 3	5		COOPER BUSSMANN L L C	SS-5	250Vac, 1.6A, Length: 8.6 x 4.3 x 8.4mm;	cURus
			WALTER ELECTRONIC CO LTD	ICP	250Vac, 1.6A, Length: 3.6 x 10mm;	cURus
			SHENZHEN LANSON ELECTRONICS CO LTD	SMT	250Vac, 1.6A, Length: 8.4 x 4 x 7.7mm;	cURus
			CHENG TUNG INDUSTRIAL CO LTD	стх	X1/X2, 310Vac, -40~110ºC, max 0.22μF;	cURus
			ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	X2, 275Vac, -40~100°C, max 0.22μF;	cURus
			TENTA ELECTRIC INDUSTRIAL CO LTD	MEX	X2, 250/275Vac, -40~100°C, max 0.22μF;	cURus
			OKAYA ELECTRIC INDUSTRIES CO LTD	RE	X2, 275Vac, -55~100°C, max 0.22μF;	cURus

4.0 0	Critic	al Components				
Pho	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity 3
			VISHAY CAPACITORS BELGIUM N V	F1772	X2, 310Vac, -40~110°C, max 0.22μF;	cURus
			DAIN ELECTRONICS CO LTD	MEX	X2, 250/275/310Vac, -40~100°C, max 0.22μF;	cURus
			DAIN ELECTRONICS CO LTD	MPX	X2, 250/275/310Vac, -40~100°C, max 0.22μF;	cURus
2, 3	6	X capacitor (CX1) (optional)	DAIN ELECTRONICS CO LTD	NPX	X2, 250/275/310Vac, -40~100°C, max 0.22μF;	cURus
			SINHUA ELECTRONICS (HUZHOU) CO LTD	МРХ	X2, 310Vac, -40~110ºC, max 0.22μF;	cURus
			SHUN DE DAHUA ELECTRIC CO LTD	HD	X2, 250Vac, -40~105°C, max 0.22μF;	cURus
			FOSHAN SHUNDE CHUANG GE ELECTRONIC INDUSTRIAL CO LTD	MKP-X2	X2, 275Vac, -40~105°C, max 0.22μF;	cURus
			HONGZHI ENTERPRISES LTD	MPX	X2, 310Vac, -40~110°C, max 0.22μF;	cURus
			WINDAY ELECTRONIC INDUSTRIAL CO	МРХ	X2, 250/275/280/300/310Vac, - 40~110°C, max 0.22μF;	cURus
			JIANGSU XINGHUA HUAYU ELECTRONICS CO LTD	MPX	X2, 250Vac, -40~100°C, max 0.22μF;	cURus
			TDK-EPC CORPORATION	CD##	Y1, 250VAC, max 2200pF, - 40~+125⁰C;	cURus
			SUCCESS ELECTRONICS CO LTD	SE	Y1, 500VAC, max 2200pF, - 40~+125⁰C;	cURus
			SUCCESS ELECTRONICS CO LTD	SB	Y1, 500VAC, max 2200pF, - 40~+125°C;	cURus
			MURATA MFG CO LTD	кх	Y1, 250/300VAC, max 2200pF, - 25~+125°C;	cURus
2, 3	7	Y capacitor (CY1, CY2) (optional)	WALSIN TECHNOLOGY CORP	АН	Y1, 250/400VAC, max 2200pF, - 25~+125°C;	cURus
			JYA-NAY CO LTD	JN	Y1, 250/400VAC, max 2200pF, - 25~+125°C;	cURus

#### 4.0 Critical Components Mark(s) of Photo Item Manufacturer/ Technical data and securement conformity Name Type / model<sup>2</sup> no.1 trademark<sup>2</sup> means 3 # Y1, 250VAC, max 2200pF, -HAOHUA CT7 cURus ELECTRONIC CO 25~+125°C; HONGZHI Y1, 400VAC, max 2200pF, -Y cURus ENTERPRISES 25~+125°C; LTD JERRO ELECTRONICS JX Y1, 250VAC, max 2200pF cURus CORP EVERLIGHT Double protection optical isolators, ELECTRONICS EL817 cURus providing 5000 Vac isolation; CO LTD COSMO Optical isolators, double protection ELECTRONICS K1010 cURus type, rated 5000 Vac; CORP COSMO Optical isolators, double protection ELECTRONICS KP1010 cURus type, rated 5000 Vac; CORP LITE-ON Double protection optical isolators TECHNOLOGY having an isolation voltage of LTV-817 cURus CORP 5300Vrms: FAIRCHILD **Double Protection Optical** isolators, providing 5000 V ac SEMICONDUCTO H11A817B cURus R CORP isolation: FAIRCHILD **Double Protection Optical** 2, 3 Optocoupler (U1) 8 SEMICONDUCTO FOD817B isolators, providing 5000 V ac cURus R CORP isolation; SHARP CORP ELECTRONIC Double protection optical isolated COMPONENTS switches, providing 5000 Vac PC817 cURus AND DEVICES isolation; GROUP BRIGHT LED Optical isolators, double protection cURus ELECTRONICS **BPC-817** isolation; CORP **BRIGHT LED** Optical isolators, double protection ELECTRONICS BPC-817 M cURus isolation; CORP **BRIGHT LED** Optical isolators, double protection ELECTRONICS BPC-817 S cURus isolation: CORP 300VAC, Type 4 surge protective JOYIN CO LTD 7N471K cURus devices, varistors; 300VAC, Type 4 surge protective JOYIN CO LTD 10N471K cURus devices, varistors; 300VAC, Type 4 surge protective JOYIN CO LTD 14N471K cURus devices, varistors; CENTRA 300VAC, Surge protective CNR-07D471K cURus SCIENCE CORP devices; 300VAC, Surge protective CENTRA CNR-10D471K cURus SCIENCE CORP devices: CENTRA 300VAC, Surge protective CNR-14D471K cURus SCIENCE CORP devices; THINKING ELECTRONIC 300VAC, Surge protective TVR07471 cURus INDUSTRIAL CO devices; LTD

4.0 0	Critica	al Components				
Photo #	ltem no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10471	300VAC, Surge protective devices;	cURus
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR14471	300VAC, Surge protective devices;	cURus
			SUCCESS ELECTRONICS CO LTD	SVR07D471K	300VAC, Surge protective devices;	cURus
			SUCCESS ELECTRONICS CO LTD	SVR10D471K	300VAC, Surge protective devices;	cURus
			SUCCESS ELECTRONICS CO LTD	SVR14D471K	300VAC, Surge protective devices;	cURus
			CERAMATE TECHNICAL CO LTD	GNR07D471K	300VAC, Surge protective devices;	cURus
			CERAMATE TECHNICAL CO LTD	GNR10D471K	300VAC, Surge protective devices;	cURus
2, 3	9	Varistor (MOV1) (optional)	CERAMATE TECHNICAL CO LTD	GND14D471K	300VAC, Surge protective devices;	cURus
_, 0	Ū		BRIGHTKING (SHENZHEN) CO LTD	07D471K	300VAC, Surge protective devices;	cURus
			BRIGHTKING (SHENZHEN) CO LTD	10D471K	300VAC, Surge protective devices;	cURus
			LTD <sup>(</sup>	14D471K	300VAC, Surge protective devices;	cURus
			LIEN SHUN ELECTRONICS CO LTD	07D471K	300VAC, Surge protective devices;	cURus
			LIEN SHUN ELECTRONICS CO LTD	10D471K	300VAC, Surge protective devices;	cURus
			LIEN SHUN ELECTRONICS CO LTD	14D471K	300VAC, Surge protective devices;	cURus
			HONGZHI ENTERPRISES LTD	HEL-7D471K	300VAC, Surge protective devices;	cURus
			HONGZHI ENTERPRISES LTD	HEL-10D471K	300VAC, Surge protective devices;	cURus
			HONGZHI ENTERPRISES LTD	HEL-14D471K	300VAC, Surge protective devices;	cURus

	Critica	al Components				
Photo #	ltem no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity
			GUANGXI NEW FUTURE INFORMATION INDUSTRY CO LTD	07D471K	300VAC, Surge protective devices, Varistors, Type 4 Surge Protective Devices;	cURus
			GUANGXI NEW FUTURE INFORMATION INDUSTRY CO LTD	10D471K	300VAC, Surge protective devices, Varistors, Type 4 Surge Protective Devices;	cURus
			GUANGXI NEW FUTURE INFORMATION INDUSTRY CO LTD	14D471K	300VAC, Surge protective devices, Varistors, Type 4 Surge Protective Devices;	cURus
			3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C;	cURus
			3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	130°C;	cURus
			BONDTEC PACIFIC CO LTD	370S	130°C;	cURus
2, 3	10	Таре	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C;	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	СТ	130ºC;	cURus
			JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C;	cURus
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C;	cURus
					PC40 core with dimension: EE22×18,8×5,7mm; for model with 5-7V output, Class 130 (B) electrical insulation systems, designated -01 / Class 130 (B) electrical insulation systems, designated GTX-130-TM / Class 130 (B) electrical insulation systems, designated ZT-130.	See 5.0

4.0	Critica	al Components				
Photo #	ltem no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
				XF00550	PC40 core with dimension: EE22×18,8×5,7mm; for model with 7.1-11V output, Class 130 (B) electrical insulation systems, designated -01 / Class 130 (B) electrical insulation systems, designated GTX-130-TM / Class 130 (B) electrical insulation systems, designated ZT-130.	See 5.0
2, 3	11	Transformer	GLOBTEK INC / HAOPUWEI ELECTRONICS	XF00579	PC40 core with dimension: EE22×18,8×5,7mm; for model with 11.1-17.9V output, Class 130 (B) electrical insulation systems, designated -01 / Class 130 (B) electrical insulation systems, designated GTX-130-TM / Class 130 (B) electrical insulation systems, designated ZT-130.	See 5.0
				XF00590	PC40 core with dimension: EE22×18,8×5,7mm; for model with 18-30V output, Class 130 (B) electrical insulation systems, designated -01 / Class 130 (B) electrical insulation systems, designated GTX-130-TM / Class 130 (B) electrical insulation systems, designated ZT-130.	
NOT				XF00682A	PC40 core with dimension: EE22×18,8×5,7mm; for model with 30.1-36V output, Class 130 (B) electrical insulation systems, designated -01 / Class 130 (B) electrical insulation systems, designated GTX-130-TM / Class 130 (B) electrical insulation systems, designated ZT-130.	See 5.0

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

INSULATED	) COIL						
Photo #	ltem no.	Name		Manufac	turer/Trademark	Type / model	
2, 3	11	Transformer		GLOBTE HAOPUV ELECTR	VEI	XF00514	
Electrical Ra	atina:	N/A				Insulation class 130	
	ating.		Power I Init	c[]] 131	0:2011 Ed.6 +R:12		
	Standard us	ed: Power Su	ıpplies Wi 015 Ed.3]	- th Extra-L		2 Outputs [CSA C22.2	
Component			Type/mod		Dimensions/thickr	ness/assembly information	
		CHANG CHUN	T375J			0; Minimum thickness:	
Bobbin		CHANG CHUN PLASTICS CO LTD	T375HF		PMC; V-0, RTI 15 0.6mm;	i0; Minimum thickness:	
		SUMITOMO BAKELITE CO LTD	PM-9820		PF; V-0, RTI 150; Minimum thickness: 0.6mm;		
		HITACHI CHEMICAL CO LTD	CP-J-8800		PF; V-0, RTI 150; Minimum thickness: 0.6mm;		
		3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1		130°C;		
		3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1		130°C;		
		BONDTEC PACIFIC CO LTD	370S		130°C;		
Insulating ta	ре	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ		130°C;		
		JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	СТ		130°C;		
		JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A		130°C;		

5.0 Critical Unlisted CE	C Components		
	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C;
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C;
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C;
	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C;
	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C;
	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C;
Magnet wire	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C;
	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C;
	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C;
	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C;
	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C;
	Various	Various	MW 28, MW75, MW79, 130°C;
	GREAT LEOFLON INDUSTRIAL CO LTD	TRW (B)	Reinforced Insulation, rated 130°C (Class B), 600 Volts peak for Information Technology;
Triple insulated winding wire	COSMOLINK CO LTD	TIW-M (B)	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;
	FURUKAWA ELECTRIC CO LTD	TEX-E	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;

5.0 Critical Unlisted CE	EC Components						
	GREAT HOLDING	TFS	600V, 200	)°C;			
PTFE tubing	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200	0°C;			
	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-S	600V, 200°C;				
	NOROO PAINT & COATINGS CO LTD	DVB-2085(1)	MW28, T	P 130, HC	C 130;		
Varnish	NOROO PAINT & COATINGS CO LTD	DVB-2085(C)	MW28, TP 130, HC 130;				
	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	MW28, T	MW28, TP 130;			
	WU JIANG TAIHU INSULATING MATERIAL CO LTD	ET-90(a)	MW28, TP 130;				
WINDING(S) RESISTAI	NCE						
Winding Designation	Wire Size (mm)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:	
N1 (pin 4 to 3)	Φ 0.3	MW75	49	-	-	-	
N2 (pin B-A)	Φ 0.7	TIW	8	-	-	-	
N3 (pin 1 to 2)	Φ 0.2	MW75	20	-	-	-	
N4 (pin 3 to 5)	Φ 0.3	MW75	43	-	-	-	
VERIFICATION PROCE	SS						
Frequency: Annual	Test Site:	CEC		Numbe	r of sample	es to test: 1	
Test Name			Test Par				
Winding resistance			esistance pe	-			
		pply voltage Betw					
Dielectric Strength	F	Primary to second Secondary to cor			30 V 30 V	60 s 60 s	
			-				

INSULATED	O COIL			
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
2, 3	11	Transformer	GLOBTEK INC / HAOPUWEI ELECTRONICS	XF00550
Electrical Ra	ating:	N/A		Insulation class 130
		Class 2 Po	ower Units [UL 1310:2011 Ed.6 +R:12	2Dec2014]
Component	Standard us	ed: Power Su No.223:20	pplies With Extra-Low Voltage Class : )15 Ed.3]	2 Outputs [CSA C22.2
MATERIAL	S LIST (refe	r to illustration 3b for	assembly drawing)	
Component		Manufacturer	Type/model Dimensions/thick	ness/assembly information

5.0 Critical Unlisted	CEC Components		
	CHANG CHUN		DMC: V/ 0. DTI 150: Minimum thiskness
	PLASTICS CO LTD	T375J	PMC; V-0, RTI 150; Minimum thickness: 0.6mm;
Bobbin	CHANG CHUN PLASTICS CO LTD	T375HF	PMC; V-0, RTI 150; Minimum thickness: 0.6mm;
	SUMITOMO BAKELITE CO LTD	PM-9820	PF; V-0, RTI 150; Minimum thickness: 0.6mm;
	HITACHI CHEMICAL CO LTD	CP-J-8800	PF; V-0, RTI 150; Minimum thickness: 0.6mm;
	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C;
	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	130°C;
	BONDTEC PACIFIC CO LTD	370S	130°C;
Insulating tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C;
	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	СТ	130°C;
	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C;
	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C;
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C;
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C;
	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C;

5.0 Critical Unlisted CE	C Components				
	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C;		
Magnet wire	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C;		
	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C;		
	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C;		
	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C;		
	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C;		
	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C;		
	Various	Various	MW 28, MW75, MW79, 130°C;		
	GREAT LEOFLON INDUSTRIAL CO LTD	TRW (B)	Reinforced Insulation, rated 130°C (Class B), 600 Volts peak for Information Technology;		
Triple insulated winding wire		TIW-M (B)	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;		
	FURUKAWA ELECTRIC CO LTD	TEX-E	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;		
	GREAT HOLDING INDUSTRIAL CO LTD	TFS	600V, 200°C;		
PTFE tubing	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C;		
	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-S	600V, 200°C;		
	NOROO PAINT & COATINGS CO LTD	DVB-2085(1)	MW28, TP 130, HC 130;		

5.0 Critical Unlisted Cl	EC Components							
	NOROO PAINT & COATINGS CO LTD	DVB-2085(C)	MW28, T	P 130, H	C 130;			
Varnish	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	MW28, T	MW28, TP 130;				
	WU JIANG TAIHU INSULATING MATERIAL CO LTD	ET-90(a)	MW28, T	MW28, TP 130;				
WINDING(S) RESISTA	NCE							
Winding Designation	Wire Size (mm)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:		
N1 (pin 4 to 3)	Φ 0.3	MW75	49	-	-	-		
N2 (pin B-A)	Φ 0.7	TIW	8	-	-	-		
N3 (pin 1 to 2)	Φ 0.2	MW75	12	-	-	-		
N4 (pin 3 to 5)	Φ 0.3	MW75	43	-	-	-		
VERIFICATION PROCE	SS							
Frequency: Annual	Test Site:	CEC		Numbe	r of sampl	es to test: 1		
Test Name			Test Par	ameters				
Winding resistance		See re	esistance pe	er winding	above.			
	A	Apply voltage Betwe	en	Test Voltage		Test Time		
Dielectric Strength		Primary to seconda		1480 V		60 s		
		Secondary to core	e	1480 V 60 s		60 s		

INSULATED	) COIL					
Photo #	ltem no.	Name		Manufac	turer/Trademark	Type / model
2, 3	11	Transformer	ner		EK INC / WEI RONICS	XF00579
Electrical Ra	ating:	N/A				Insulation class 130
		ed: Power S	upplies Wi 2015 Ed.3]	ith Extra-L	-	2 Outputs [CSA C22.2
Component		Manufacturer	Type/mo			ness/assembly information
		CHANG CHUN PLASTICS CO LTD	T375J		PMC; V-0, RTI 150; Minimum thickness: 0.6mm;	
Dabbia		CHANG CHUN PLASTICS CO LTD			PMC; V-0, RTI 15 0.6mm;	0; Minimum thickness:
Bobbin		SUMITOMO BAKELITE CO LTD	PM-9820		PF; V-0, RTI 150; Minimum thickness: 0.6m	
		HITACHI CHEMICAL CO LTD	CP-J-8800		PF; V-0, RTI 150; Minimum thickness: 0.6	

5.0 Critical Unlisted			
	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C;
	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	130°C;
	BONDTEC PACIFIC CO LTD	370S	130°C;
Insulating tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C;
	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	СТ	130°C;
	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C;
	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C;
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C;
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C;
	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C;
	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C;
	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C;
Magnet wire	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C;
	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C;

5.0 Critical Unlisted CE	C Components						
	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C	C, 130°C;			
	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#,	130°C;			
	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#,	130°C;			
	Various	Various	MW 28, N	/W75, M\	W79, 130°	С;	
	GREAT LEOFLON INDUSTRIAL CO LTD	TRW (B)				I 30°C (Class B), n Technology;	
Triple insulated winding wire	COSMOLINK CO LTD	TIW-M (B)		eak for In		30°C (Class B), Technology	
	FURUKAWA ELECTRIC CO LTD	TEX-E		eak for In		30°C (Class B), Technology	
	GREAT HOLDING INDUSTRIAL CO LTD	TFS	600V, 200°C;				
PTFE tubing	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C;				
	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-S	600V, 20	0°C;			
	NOROO PAINT & COATINGS CO LTD	DVB-2085(1)	MW28, T	P 130, HC	2 130;		
	NOROO PAINT & COATINGS CO LTD	DVB-2085(C)	MW28, T	P 130, HC	C 130;		
Varnish	WU JIANG TAIHU INSULATING MATERIAL CO LTD	T-4260(a)	MW28, TP 130;				
	WU JIANG TAIHU INSULATING MATERIAL CO LTD	ET-90(a)	MW28, TP 130;				
WINDING(S) RESISTAN	ICE						
Winding Designation	Wire Size (mm)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:	
N1 (pin 4)	(IIIII) Ф 0.20	MW75	36	-	-	( <u>12)</u> T/- IU/0. -	
N2 (pin 4-5)	Φ 0.20	MW75	87	-	-	-	
N3 (pin B-A)	Φ 0.5	TIW	10	-		-	
	+ 0.0						

5.0 Critical		C Compo	nents									
N4 (pin 1 to		Φ0	.2*2	MV	/75	15		-	-		-	
VERIFICAT	ION PROCE						-					
Frequency:	Annual		Test Site:	CEC Number			r of samp	oles to t	est: <b>1</b>			
	Test Name					Test	Parar	neters				
Winding res	istance					e per	-	g above.				
	4			pply voltag					/oltage	Т	est Tim	е
Dielectric St	rength		ŀ	Primary to					80 V	-	60 s	
				Seconda	ry to core			140	80 V		60 s	
INSULATED	) COIL											
Photo #	Item no.	Name			Manufac	turer/Tr	aden	nark	Type / n	nodel		
2, 3	11	Transform	HAO			EK INC / XF00590 WEI RONICS						
Electrical Ra	ating:	N/A							Insulatio	n class		130
	Ŧ		Class 2 F	ower Unit	s [UL 131	0:2011	Ed.6	+R:12				
Component	Standard us	ed:	Power Su	upplies Wi 015 Ed.3]	-						22.2	
MATERIAL	S LIST (refe											
Component		Manufact		Type/mod	del	Dimer	nsions	s/thickn	ness/assembly information			n
		CHANG ( PLASTIC LTD		T375J		PMC; 0.6mn	V-0, RTI 150; Minimum thickness: n;					
Dahkin		CHANG ( PLASTIC LTD		T375HF		PMC; V-0, RTI 150; Minimum thickness: 0.6mm;						
Bobbin		SUMITON BAKELIT LTD		PM-9820		PF; V-0, RTI 150; Minimum thickness: 0.6mm			nm;			
		HITACHI CHEMIC/ LTD		CP-J-880	0	PF; V-	∙0, R1	RTI 150; Minimum thickness: 0.6mr		nm;		
		3M COM ELECTRI MARKET (EMD)	CAL	1350F-1		130°C	· ,					
		3M COMPANY ELECTRICAL MARKETS DIV (EMD)			130°C;							
		BONDTE PACIFIC		370S		130°C	130°C;					
Insulating tape		JINGJIAN YAHUA PRESSU SENSITIN CO LTD		PZ		130°C						
		JINGJIAN YAHUA PRESSU SENSITIN CO LTD		ст		130°C	•					

5.0 Critical Unlisted CEC Components								
	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C;					
	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C;					
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C;					
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C;					
	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C;					
	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C;					
	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C;					
Magnet wire	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C;					
	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C;					
	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C;					
	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C;					
	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C;					
	Various	Various	MW 28, MW75, MW79, 130°C;					
	GREAT LEOFLON INDUSTRIAL CO LTD	TRW (B)	Reinforced Insulation, rated 130°C (Class B), 600 Volts peak for Information Technology;					
Triple insulated winding wire	COSMOLINK CO LTD	TIW-M (B)	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;					

5.0 Critical Unlisted CE	C Compo	nents			_				
		FURUKAWAReinforced insulation rated 130°C (ClaELECTRIC COTEX-E1.41 kV peak for Information TechnoloLTDEquipment;							
	GREAT HOLDING INDUSTRIAL CO LTD		TFS		600V, 200°C;				
PTFE tubing	SHENZH WOER H SHRINKA MATERIA LTD	EAT- ABLE	WF		600V, 200°C;				
	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD		CB-TT-S		600V, 200°C;				
	NOROO COATINO LTD		DVB-2085(1)		MW28, T	P 130, HC	C 130;		
	NOROO COATINO LTD		DVB-2085(C)		MW28, TP 130, HC 130;				
Varnish	WU JIANG TAIHU INSULATING MATERIAL CO LTD		T-4260(a)		MW28, TP 130;				
	WU JIANG TAIHU		ET-90(a)		MW28, TP 130;				
WINDING(S) RESISTAN	ICE								
Winding Designation	Wire	Size m)	Wire Type		Turns	Volts	Amps	DC resistance (Ω) +/- 10%:	
N1 (pin 4)		, .25	MW75		30	-	-	-	
N2 (pin 4-5)		).25	MW75		88	-	-	-	
N3 (pin B-A)	Φ	0.5	TIW		16	-	-	-	
N4 (pin 1 to 2)		18*3	MW75		13	-	-	-	
VERIFICATION PROCE	SS								
Frequency: Annual		Test Site:	CEC				r of sample	es to test: <b>1</b>	
Test Name					Test Par				
Winding resistance					sistance pe				
			pply voltage Be			Test Voltage Test Time			
Dielectric Strength		ŀ	Primary to secor		у		80 V	60 s	
			Secondary to c	core		148	80 V	60 s	

INSULATED					
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model	
2, 3	11	Transformer	GLOBTEK INC / HAOPUWEI ELECTRONICS	XF00682A	
Electrical Ra	ating:	N/A		Insulation class	130

5.0 Critical Unlisted CEC Components							
	Class 2 F	ower Units [UL 131	0:2011 Ed.6 +R:12Dec2014]				
Component Standard used: Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]							
MATERIALS LIST (refer	to illustration 3e for	assembly drawing)					
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information				
	CHANG CHUN PLASTICS CO LTD	T375J	PMC; V-0, RTI 150; Minimum thickness: 0.6mm;				
Bobbin	CHANG CHUN PLASTICS CO LTD	T375HF	PMC; V-0, RTI 150; Minimum thickness: 0.6mm;				
	SUMITOMO BAKELITE CO LTD	PM-9820	PF; V-0, RTI 150; Minimum thickness: 0.6mm;				
	HITACHI CHEMICAL CO LTD	CP-J-8800	PF; V-0, RTI 150; Minimum thickness: 0.6mm;				
	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C;				
	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	130°C;				
	BONDTEC PACIFIC CO LTD	370S	130°C;				
Insulating tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C;				
	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	СТ	130°C;				
	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C;				
	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130°C;				
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C;				
	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C;				

5.0 Critical Unlisted CEC Components							
	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C;				
	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C;				
	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C;				
Magnet wire	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C;				
	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C;				
	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C;				
	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C;				
	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C;				
	Various	Various	MW 28, MW75, MW79, 130°C;				
	GREAT LEOFLON INDUSTRIAL CO LTD	TRW (B)	Reinforced Insulation, rated 130°C (Class B), 600 Volts peak for Information Technology;				
Triple insulated winding wire	COSMOLINK CO LTD	TIW-M (B)	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;				
	FURUKAWA ELECTRIC CO LTD	TEX-E	Reinforced insulation rated 130°C (Class B), 1.41 kV peak for Information Technology Equipment;				
	LTD	TFS	600V, 200°C;				
PTFE tubing	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600∨, 200°C;				
	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-S	600V, 200°C;				
	NOROO PAINT & COATINGS CO LTD	DVB-2085(1)	MW28, TP 130, HC 130;				

5.0 Critical Unlisted CEC Components								
	NOROO I COATINO LTD		DVB-2085(C)	MW28, TP 130, HC 130;				
Varnish	WU JIANG TAIHU INSULATING MATERIAL CO LTD		T-4260(a)	MW28, TP 130;				
	WU JIANG TAIHU INSULATING MATERIAL CO LTD		ET-90(a)	MW28, T	MW28, TP 130;			
WINDING(S) RESISTAN	ICE							
Winding Designation	Wire Size (mm)		Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:	
N1 (pin 4)	Φ 0.25*2		MW75	15	-	-	-	
N2 (pin 4-5)	Φ 0.25		MW75	88	-	-	-	
N3 (pin B-A)	Φ 0.5		TIW	24	-	-	-	
N4 (pin 1 to 2)	Φ 0.20*3		MW75	10	-	-	-	
VERIFICATION PROCE	SS							
Frequency: Annual	Test Site: CEC Number of samples to test: 1						es to test: 1	
Test Name Test Parameters								
Winding resistance See resistance per winding above.								
Dielectric Strength		Apply voltage Between					Test Time	
		ŀ	Primary to seconda		1480 V		60 s	
		Secondary to core	;	1480 V 60 s				

#### 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.

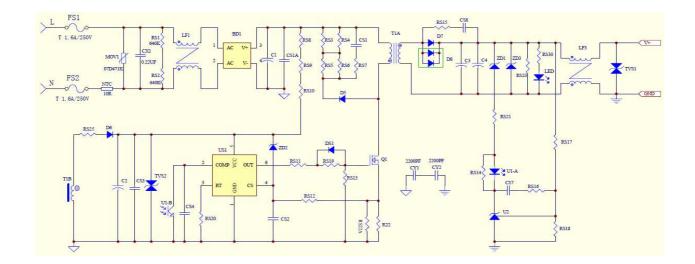
<u>Construction Details</u> - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general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

- Spacing In primary circuits, 4.8 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity, 4.8 mm minimum between such current-carrying parts and low voltage isolated circuits, and 6.4 mm between such current-carring parts and dead-metal parts. For frame type models, spacings between live parts of opposite polarity is evaluated by UL840, minimum 3.2 mm spacings are maintained.
- 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. <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> All uninsulated live parts in secondary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
- 5. <u>Grounding</u> This product is not provided with a means of grounding.

6. Polarized Connection - This product is not provided with a polarized power supply connection.

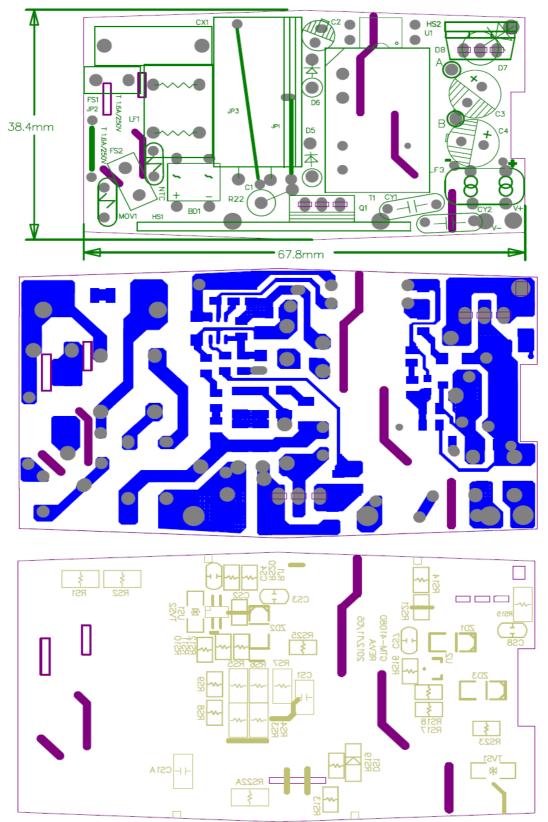
- 7. Internal Wiring Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring is minimum 24 AWG, with a minimum rating of 300V, 80°C.
- 8. <u>Schematics</u> Refer to Illustration No. 1 for schematics requiring verification during Field Representative Inspection Audits.
- 9. <u>Markings</u> The product is marked on a labeling system as described in Section 4.0. Refer to Illustration No.4 for markings.
- 10. <u>Cautionary Markings</u> The following are required: refer to illustation No.4 for detail.
- 11. <u>Installation, Operating and Safety Instructions</u> Specification for installation and use of this product are provided by the manufacturer. Refer to Illustration No. 5a to 5c for details.
- 12. <u>PWB Layout</u> Refer to Illustration No.2a and 2b for PWB layout requiring verification during Field Representative Inspection Audits.





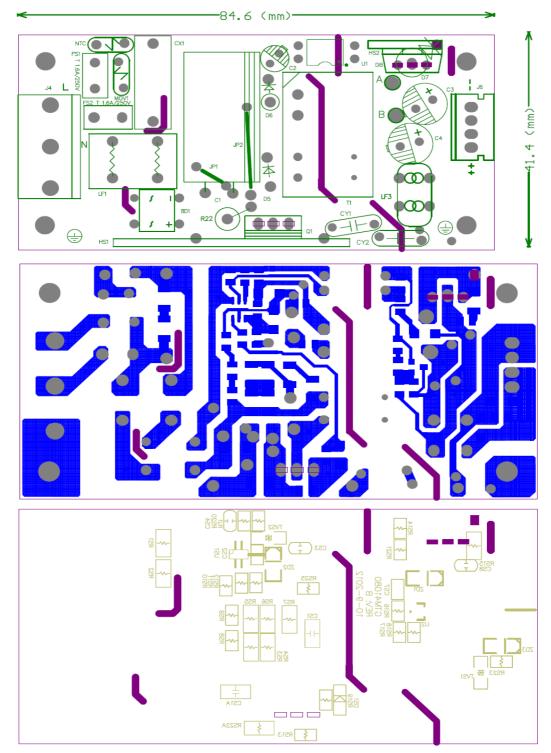
## Illustration 2a - PWB layout

For direct plug-in models



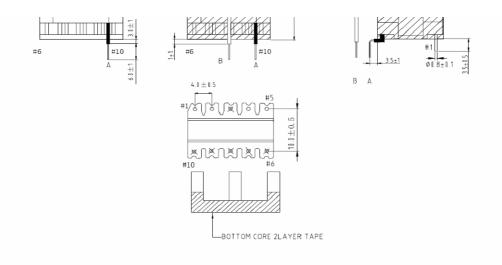
## Illustration 2b - PWB layout

For open frame type models



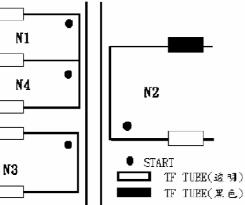
#### Illustration 3a - Structure of Transformer

XF00514

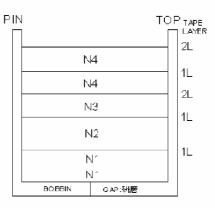




\_



3. WINDING SEQUENCE:

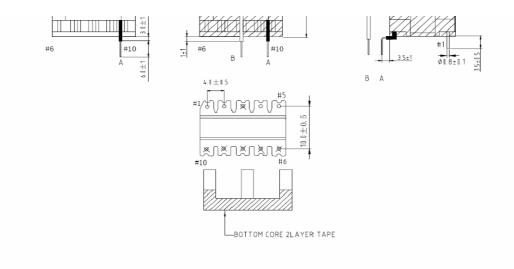


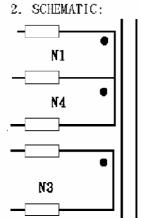
4. WINDING TABLE

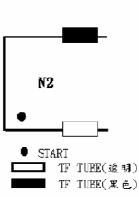
Winding No (組列)	Margin Tape (檔糩膠帶)	PIN (廯位)	Wire跡ire Copper (線徑X股數)	Turns (國数)	Winding Tap <del>a</del> (続線方式)	Tape Layer (膠帶層次)	Tube (套管)
NI	0		0. 30 <b>Φ</b> XIP	49Ts	蜜鏡	lL	28*8/28*8
			0. 70 <b>Φ</b> XIP				18*15(透明)/
N2	0		(三層絕緣	8Ts	密绕	2L	18*15(黒色)
NB	0		0. 20 ΦXIP	20Ts	蜜中繞	2L	28*8 /28*8
N4	0		0. 30 ФХIР	43Ts	密绕	2L	28/8*28*8

#### Illustration 3b - Structure of Transformer

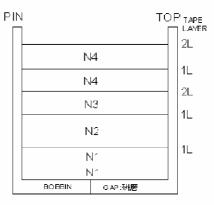
XF00550







#### 3. WINDING SEQUENCE:



#### 4. WINDING TABLE

Winding No (組列)	Margin Tape (檔糩膠帶)	PIN (解位)	Wire&Wire Copper (線徑X股數)	Turns (國教)	Winding Tap≈ (続線方式)	Tape Layer (膠帶層次)	
NI	0		0. 30 <b>Φ</b> X1P	49Ts	蜜繞	1L	28*8/28*8
			0. 70 ΦX1P				18*15(透明)/
N2	0		(三層絕緣	8Ts	審绕	2L	18*15(黒色)
NB	0		0. 20 ΦXIP	20Ts	蜜中繞	2L	28*8 /28*8
N4	0		0. 30 ФХIР	43Ts	密绕	2L	28/8*28*8

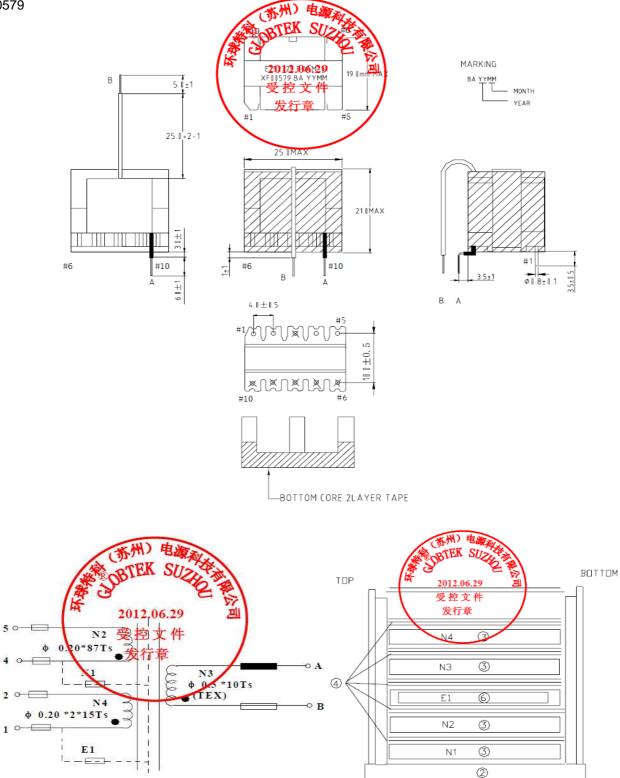
### Illustration 3c - Structure of Transformer

#### XF00579

50

4

2 0-



5

NDGAP

1

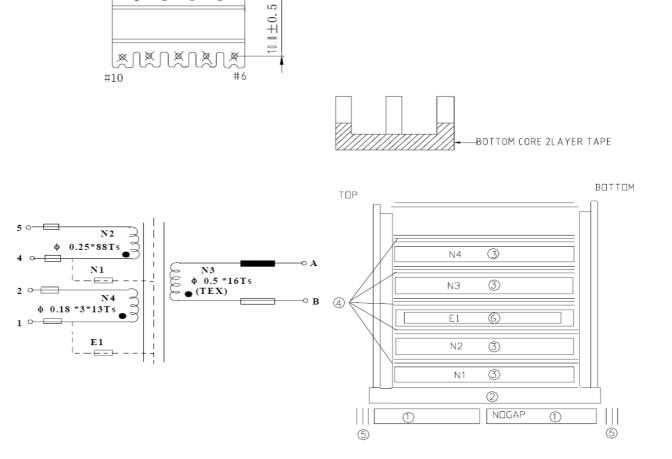
1

5

#### Illustration 3d - Structure of Transformer

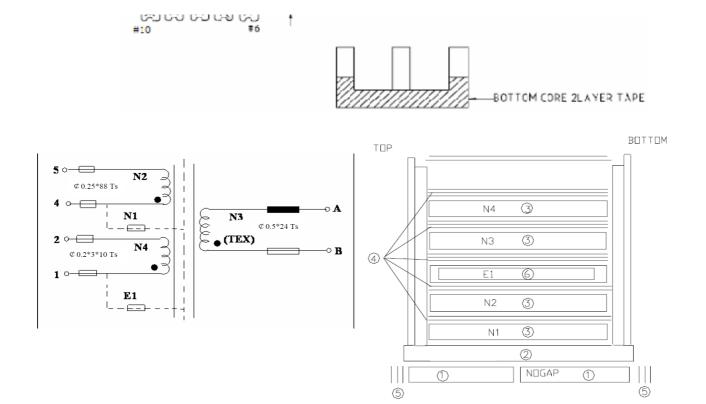
v

XF00590

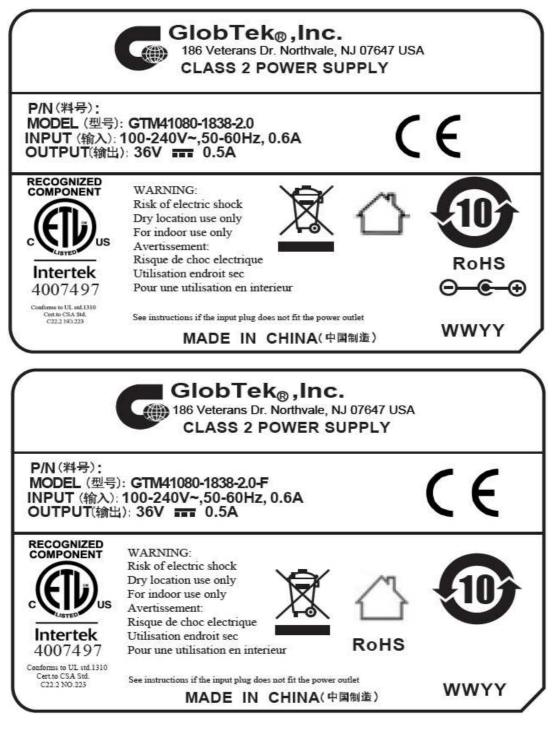


## Illustration 3e - Structure of Transformer

XF00682A



#### **Illustration 4 - Marking**



Note:

1. The height of the word "WARNING" and "Avertissement" in cautionary statements are not less than 3.2mm. The height of the remaining letters in cautionary statement are not less than 1.6mm.

2. The manufacturing date of the product is presented as WWYY, YY = manufacturing year, WW = the week of the year, e.g. 0213 = The second week of 2013.

3. Other models are with similar label except model name and ratings.

#### **Illustration 5a - Instruction**

The power supply cord shall terminate in a 125 volt, 15 amp plug configuration

🕂 Warning

- This is Class 2 Power Supply, it is suitable for indoor use only.
- Before use, the input and output voltage must be checked to secure correct use.
- Do not use the transformer in the circumstances that the output polarity does not match the load polarity.
- The output cord cannot be replaced. If the cord is damaged the appliance should be scrapped.
- The adaptor shall be installed and used according to national wiring rules. -Please refer to page 8 how to assmble the changeable blades

IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS DANGER – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet

This power unit is intended to be correctly orientated in a vertical or floor mount position

In Addition to GlobTek Inc.'s renewed ISO9001:2008 - Quality Management System Certification, GlobTek Inc. is now certified to: ISO13485:2003 - Medical Devices Quality Management System Certification ISO14001:2004 - Environmental Management System Certification ISO Certificates are available On-Line by clicking this link

Customer Approval of Specification:

Please approve, sign and send back to GlobTek so we can complete order processing. <u>A delay in receipt of this form will delay delivery schedule.</u> <u>Company Name:</u> <u>Customer P/N:</u> <u>Quote Number:</u> <u>Date:</u> Authorized Representative Name:

Authorized Representative Signature:

Foot Note:

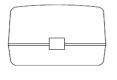
Globtek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction. Limitation of Use:

Globbek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of Globbek Inc. Contents of this document are subject to change without prior notice

#### **Illustration 5b - Instruction**

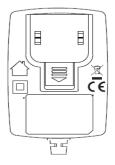
1. NOTES: DIMENSIONS ARE IN	MM UNLESS SPECIFIED	OTHERWISE.	ubstances)
2. ELECTRICAL SPECT INPUT VOLTAGE: INPUT CURRENT:	CIFICATIONS: 100-240 0.6		$\vec{)}$
INPUT FREQUENCY:	47-63	Нг ЗСКон	is
OUTPUT VOLTAGE: OUTPUT CURRENT:		VDC A, NO MINIMUM LOAD REQUIRED TO MAINTAIN OUTPUT VOLTAGE REGULATION	
OUTPUT POWER (RA		WATTS MAX	
OUTPUT LOAD REGU	JLATION:	+/- 5% MEASURED AT O/P CONNECTOR	
LINE VOLTAGE REGU	JLATION:	+/- 1%TYPICAL MEASURED AT THE OUTPUT CONNECTOR	
OUTPUT RIPPLE (PE	AK TO PEAK):	1% OR 150 mV WHICHEVER IS GREATER. MEASURED AT 20 MHz	
		BANDWIDTH WITH 0.1 $\mu$ f CERAMIC CAPACITOR IN PARALLEL WITH 10 $\mu$ f	
		ELECTROLYTIC CAPACITOR CONNECTED AT THE END	
		OF OUTPUT CONNECTOR AT NOMINAL LINE	
TURN-ON/TURN-OFF	OVERSHOOT:	5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD	
TURN-ON DELAY:			
HOLD-UP TIME: INRUSH CURRENT:		8mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD 30A TYPICAL AT 115VAC INPUT AND 60A TYPICAL AT 230 VAC INPUT	
SWITCHING FREQUE	NCV	65 KHZ TYPICAL	
PROTECTION	INCT.	03 KHZ TTPICAL	
OVER-VOLTAGE:		PROTECTED WITH ZENER CLAMP ACROSS OUTPUT	
SHORT CIRCUIT:		PROTECTED, UNIT WILL RECOVER UPON REMOVAL OF FAULT	
INPUT:		INPUT LINE FUSING	
SAFETY:		_	
DIELECTRIC WITHST	AND VOLTAGE: 4242	VDC FROM PRIMARY TO SECONDARY	
EARTH LEAKAGE:		<0.25 mA AT 240 VAC INPUT VOLTAGE	
APPROVALS			
		SAFETY DOCUMENTS ARE AVAILABLE ONLINE BY CLICKING THIS L	<u>INK.</u>
SAFETY APPROVAL:		GOST-R, CE CLASS II, PSE TO J60950	
EMI:		COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B, VCCI WHE	N
		TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI	
CE MARK:		TESTED TO COMPLY WITH EN55022:1998_A1:2000, EN610003-2, E610003-3	
		INCLUDING EN61204-3:2000, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11	
C-TICK:		TESTED TO COMPLY WITH AUSTRALIA SECTION 182 OF	
C-HOR.		THE RADIO COMMUNICATION ACT OF 1992.	
EFFICIENCY:		ENERGY STAR VERSION 2.0, LEVEL V	
		COMPLIES TO SECTION 301 OF THE ENERGY INDEPENDENCE AND SECURITY ACT (EISA	0
		CECP TIER 2 (CHINA), MEPS TIER 2 (AUSTRALIA), CODE OF CONDUCT (EUROPE)	
OTHERS			
MTBF:		200,000 HOURS AT 25°C AMBIENT TEMPERATURE	
OPERATING TEMPER	RATURE:	0°C TO 40° C AMBIENT TEMPERATURE	
HUMIDITY:		0% TO 90% RELATIVE HUMIDITY	
STORAGE TEMPERA	TURE:	-10°C TO +80° C	
RoHS:		COMPLIES WITH EU 2002/95/EC AND CHINA SO/T 11363-2006	
3. ENCLOSURE:			
MATERIAL	94V-0 POLYCARBONA	TE	
COLOR:	BLACK		
DIMENSIONS:	43.5 x 74.0 x 35.3mm +/	- 1.0	

SYMBOLS CAN BE EITHER PAD PRINTED OR MOLDED IN THE CASE









#### **Illustration 5c - Instruction**

4. INPUT CONNECTORS:				_			I
STANDARD BLACK CO			Х	]			
		GY TO THE END OF THE P/N					
	AC INPUT - INTERCHANGEABLE BLADES INTERCHANGEABLE BLADES OR KITS MUST BE ORDERED SEPARATELY					JNS -7	-8
		WITH 2 PRONGS, Q-NA(R)	Q-KIT	Q-KIT-NTL	Q-KIT-6	X	X
	IRATION: 2 PINS CLASS II	, Q-SAA(R)	Х	Х	Х	Х	Х
	PINS, CLASS II, Q-UK(R)		X	X	X	X	X
	RATION: 2 PINS, CLASS II, TION: 2 PINS, CLASS II, Q-I		X	Х	X X	X X	XX
	RATION: 2 PINS, CLASS II, Q				X	X	X
7 CHINA CONFIGURATIC	N: 2 PINS, CLASS II, Q-CN	I(R)				Х	Х
	N: 2 PINS CLASS II, Q_IN(F	र)					Х
9 IEC 320 INLET CONNEC	510R: Q-018(R)						
P/N Q-NA(R) NORTH AMERICA JAPAN	PIN Q-SAA(R) AUSTRALIA	X S S S S S S S S S S S S S		SULLA	440 440 4455		
SGF 192 CDF 284 CDF	P/N Q-AR(R) ARGENTINA	P/N Q-CN(R) CHINA	#7.04100 V V V V V V V V V V V V V V V V V V		States 162405		
P/N Q-C18(R) IEC 320 INLET CONNECTO M IMPORTANT INSTA							I
<b>FOR PROPER INSU</b>	LATION AND GROUNDIN	G RELIABILITY, FOLLOW E	ITHER O	PTIONS	BELOW		
		TAND-OFF FOR ALL MOUNTI TH CONNECTION BETWEEN I				R	
		RING TERMINAL, AMP GREEN, 100 mm LENGT		42-5 AWC	3 18 STRANI	DED W	IRE,
SCREWS AND 1	NYLON STAND-OFF FOR H LY APPLICABLE IF SYSTE	ALLIC STAND-OFF FOR HOLE IOLES 1 AND 2. EM CHASSIS WHERE THE POW					
throughout waste dispo return your	the EU. To prevent poss sal, recycle it responsib used device, please use	duct should not be disposed sible harm to the environme ly to promote the sustainab the return and collection s an take this product for env	nt or hui le reuse ystems o	man hea of mate or contac	Ith from un rial resourc t the retail	contro	O
For inc	loor use only	0- <b>e</b> -(	Ð	Polarity			

ACTUAL POSITIONING OF SYMBOLS AND TEXT IS SUBJECT TO CHANGE AT TIME OF MANUFACTURE

8.0 Test Summary						
Evaluation Period	9-Jan-2013 to 28	3-Feb-2013		Project No.	130100670SHA	
Sample Rec. Date	9-Jan-2013	Condition	Prototype	Sample ID.	0130109-60- 001~033	
Test Location	Intertek Testing	Services Shanghai	Limited			
Test Procedure	Testing Lab					
Determination of the				•		
methods. The produ	ct was tested as i	ndicated below with	results in conforma	ance to the releva	ant test criteria.	
The following tests w	ere performed:					
Test Description			UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including July 25, 2012 Clause	CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2008 with General Instruction No. 1 Dated June 1991 and Update No. 2 Dated September 2009 Clause	UL 746C Sixth Edition Dated September 10, 2004 including Revisions through March 7, 2012 Clause	
Integral plug dimensi	on check		14.1.1	4.5.1.1	-	
Maximum moment m			7.11	4.1.4	-	
Leakage Current Tes			26	6.5	-	
Leakage Current Tes	st and Dielectric V	oltage Withstand				
Test After Humidity E	Exposure		27	-	-	
Maximum Output Vol	ltage Test		28	6.2.1	-	
Maximum Input Test			29	6.2.2	-	
Output Current and F	Power Test		30	6.2.4	-	
Full-Load Output Cur	rrent Test		32	6.2.3	-	
Normal Temperature	Test		33	6.3	-	
Dielectric Voltage-Wi	ithstand Test		34	6.4	-	
Abnormal Tests			39	6.7	-	
Tests on Insulating N	laterials		40	-	-	
Direct Plug-In Blade	Secureness Test		43	-	-	
Direct Plug-In Securit	ty of Input Contac	ts Test	44.1	-	-	
Abuse Tests			46	-	-	
Secondary Circuit Pro	otection		-	6.6	-	
Drop and Impact			-	6.9	-	
Blade retention			-	6.10	-	
Securement of comp	onents		-	6.12	-	
Insulating Material			-	6.13	-	
Mold-Stress Relief Di	istortion		-	-	29	

Evaluation Period	11-Jul-2014			Project No.	140700797SHA		
Sample Rec. Date	- Condition Prototype			Sample ID.	-		
Test Location	Intertek Testing	ntertek Testing Services Shanghai Limited					
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.							
All tests have been evaluated in 130100670SHA-001. No test required in below updated standard:							

8.0 Test Summary					
				CSA C22.2	
				No.223-M91	
				Dated June	
				1991,	
				Reaffirmed	
				2013 with	
			UL 1310 Sixth	General	
			Edition Dated		UL 746C Sixth
			August 26, 2011	1 Dated June	Edition Dated
			containing		September 10,
			Revisions through	Dated	2004 including
			and including May	September	Revisions through
Test Description			30, 2014	2009	August 29, 2013
Evaluation Period	28-Jul-2016 to 8	-Son-2016		Project No.	151000549SHA
					0160725-112-
Sample Rec. Date	25-Jul-2016	Condition	Prototype	Sample ID.	001~012
Test Location		Services Shanghai	Limited		
Test Procedure	Testing Lab				
Determination of the r					
methods. The produc					
All tests have been ev	aluated in 13010	0670SHA-001. No t	est required in belo	w updated stand	ard:
				Power Supplies	-
					Materials - Use In
				Voltage Class 2	
			Class 2 Power	Outputs [CSA	Equipment
			Units [UL	C22.2	Evaluations [UL
			1310:2011 Ed.6	No.223:2015	746C:2004 Ed.6
Test Description			+R:12Dec2014]	Ed.3]	+R:18Jul2016]
Integral plug dimensio			14.1.1	4.6.1.1	-
Maximum moment me Plug Discharge and P		d Test	7.11	4.2.5 4.6.2.7	-
Leakage Current Test			26	6.6	
Leakage Current Test		oltage Withstand		0.0	
Test After Humidity E			27	-	_
Maximum Output Volt	•		28	6.3.1	-
Maximum Input Test	-		29	6.3.2	-
Output Current and P	ower Test		30	6.3.4	-
Full-Load Output Curr			32	6.3.3	-
Normal Temperature	Test		33	6.4	-
Dielectric Voltage-Wit			34	6.5	-
Abnormal Tests			39	6.8	
Tests on Insulating M	aterials		40	-	-
Strain Relief			41	-	-
Push-Back Relief			42	-	-
Direct Plug-In Blade Secureness Test			43	-	-
Direct Plug-In Security of Input Contacts Test			44.1	-	-
Abuse Tests			46	-	-
		Secondary Circuit Protection			-
Secondary Circuit Pro	otection		-	6.7	
Secondary Circuit Pro Drop and Impact			-	6.9	-
Secondary Circuit Pro Drop and Impact Strain Relief and Blad	le Retention		-	6.9 6.10	-
Secondary Circuit Pro Drop and Impact Strain Relief and Blad Securement of compo	le Retention			6.9 6.10 6.12	
Secondary Circuit Pro Drop and Impact Strain Relief and Blad Securement of compo Insulating Material	le Retention		- - - -	6.9 6.10 6.12 6.14	-
Secondary Circuit Pro Drop and Impact Strain Relief and Blad Securement of compo Insulating Material Compression (rod)	le Retention onents		- - - - -	6.9 6.10 6.12 6.14 6.15	
Secondary Circuit Pro Drop and Impact Strain Relief and Blad Securement of compo Insulating Material	le Retention onents tallic enclosures)		- - - -	6.9 6.10 6.12 6.14	-

8.1 Signatures				
A representative s	sample of the product covered by t ments of the standards indicated i	•	uated and found	to comply with the
Completed by:	Albert Zhou	Reviewed by:	Will Wang	
Title:	Engineer	Title:	Supervisor	
	Alborth 2hour	Signature:	IGUI	Jan 2/

# 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 USA
Country	USA
Product	Class 2 Power Supply

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

# **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 issue 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. 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.

#### 11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

#### **Required Tests**

Dielectric Voltage Withstand Test

#### 11.1 Dielectric Voltage Withstand Test

#### Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between input and output circuits. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

#### Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either: 1 - a voltmeter in the primary circuit;

2 - a selector switch marked to indicate the test potential; or

3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:		
Product	Test Voltage	Test Time
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

12.0 Revision				
Date/ Proj # Site ID	changes are in com Project Handler/ Reviewer	Section	In the c	leclaration of Section 8.1: Description of Change
11-Jul-2014	Will Wang	1,5	-	Updated standard version of UL 1310 from "UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including July 25, 2012" to "UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including May 30, 2014." Updated standard version of CSA C22.2 No.223 from"CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2008 with General Instruction No. 1 Dated June 1991 and Update No. 2 Dated September 2009" to "CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2013 with General Instruction No. 1 Dated June 1991 and No. 2 Dated September 2009"
140700797SHA	Carl Bao	2	-	Modified description of model name.
		8	~	Updated standard version of UL 1310 from "UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including July 25, 2012" to "UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including May 30, 2014." Updated standard version of CSA C22.2 No.223 from"CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2008 with General Instruction No. 1 Dated June 1991 and Update No. 2 Dated September 2009" to "CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2013 with General Instruction No. 1 Dated June 1991 and No. 2 Dated September 2009" Updated standard version of UL 746C from "UL 746C Sixth Edition Dated September 10, 2004 including Revisions through March 7, 2012" to "UL 746C Sixth Edition Dated September 10, 2004 including Revisions through August 29, 2013" New signatures signed.
18-Sep-2016	Albert Zhou Albert 220U	1, 5	_	Updated standard version of UL 1310 from "UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including May 30, 2014" to "Class 2 Power Units [UL 1310:2011 Ed.6 +R:12Dec2014]" Updated standard version of CSA C22.2 No.223 from "CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2013 with General Instruction No. 1 Dated June 1991 and No. 2 Dated September 2009" to "Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]"
151000549SHA	Will Wang	$\lambda^{2}$	-	Replaced the old brand name "GlobTek" with "
		4	11	Changed the manufacturer name of transformer from "ZHONGTONG ELECTRONICS CO LTD" to "HAOPUWEI ELECTRONICS".
		5	11	Changed the manufacturer name of transformer from "ZHONGTONG ELECTRONICS CO LTD" to "HAOPUWEI ELECTRONICS".

# **12.0 Revision Summary** The following changes are in compliance with the declaration of Section 8.1: Date/ Project Handler/ Brai # Site ID Boviowar

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		8	-	Updated standard version of UL 1310 from "UL 1310 Sixth Edition Dated August 26, 2011 containing Revisions through and including May 30, 2014" to "Class 2 Power Units [UL 1310:2011 Ed.6 +R:12Dec2014]" Updated standard version of CSA C22.2 No.223 from "CSA C22.2 No.223-M91 Dated June 1991, Reaffirmed 2013 with General Instruction No. 1 Dated June 1991 and No. 2 Dated September 2009" to "Power Supplies With Extra-Low Voltage Class 2 Outputs [CSA C22.2 No.223:2015 Ed.3]" Updated standard version of UL 746C from "UL 746C Sixth Edition Dated September 10, 2004 including Revisions through August 29, 2013" to "[UL 746C:2004 Ed.6 +R:18Jul2016]"
		8	-	Added new test block in section 8
		8.1	-	Revised with new signatures