

1.0 Reference and Address			
Report Number	2511B0589SHA-001	Original Issued: 15-Dec-2025	Revised: None
Standard(s)	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2019 Ed.3+R:22Oct2021] Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2019 Ed.3+U1]		
Applicant	GlobTek, Inc.	Manufacturer	GlobTek (Suzhou) Co., Ltd.
Address	186 Veterans Dr. Northvale, NJ 07647	Address	Building 4. No 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021
Country	USA	Country	China
Contact	Michael Krakovyak	Contact	Demon Zhou
Phone	(201)784-1000 Ext.253	Phone	86 512 6279 0301 Ext.189
FAX	(201)784-0111	FAX	86 512 6279 0355
Email	krakovyakm@globtek.us	Email	demon.zhou@globtek.cn

2.0 Product Description	
Product	ICT/ITE Power Supply
Brand name	 GlobTek, Inc.
Description	The equipment under test is a built-in open frame type ICT/ITE Power Supply module and Potted/Encapsulated type ICT/ITE Power Supply. The installation and use for the insulation construction shall be finally determined in end product. Protective earth connection to secondary circuit is optional. Transformers used in all models are with same construction. The turns of secondary winding may be added or reduced according different output voltage. All models have same schematic, but some non-critical components may be adjusted according different output voltage. The parameters of these components depend on output voltage. The products are not intended to use in environment which altitude exceed 5000m.
Models	GT followed by M, - or H; followed by 96225; followed by 0, 1, 2 or 3; followed by P; followed by 001 to 225; followed by 12 to 54; may be followed by a character or A to H; followed by a character, -C or -D; may be followed by -; followed by F, FW, P2 or P3; may be followed by -TPNA; may be followed by six characters. GT followed by M, - or H; followed by 96225; followed by 0, 1, 2 or 3; followed by P; followed by 001 to 225; followed by 12.0 to 54.0; may be followed by a character or A to H; followed by a character, -C or -D; may be followed by -; followed by F, FW, P2 or P3; may be followed by -TPNA; may be followed by six characters.
Model Similarity	GT*96225*P*****_** (The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" can be 0, 1, 2 or 3, denote the different mechanical construction, "0" means open frame, "1" means L frame, "2" means cage, "3" means potted. The 3rd "*" can be "001" to "225", denotes the rated output wattage designation from 1W to 225W, in step of 1 denote 1W. The 4th "*" can be "12" to "54" or "12.0" to "54.0", denote the standard rated output voltage designation from 12.0V to 54.0Vdc, in step of 0.1 denote 0.1V. The 5th "*" can be optional, a character or A to H, denote the AUX Output voltage code. The 6th "*" can be a character, -C or -D, related to PCB size, a character="2"x4", -C="3"x5", -D="7"x4.22". The 7th "*" =-F or F means Open Frame class I or class II with functional earth =-FW or FW means Open Frame class II =-P2 or P2 means Encapsulated Type, class II =-P3 or P3 means Encapsulated Type, class I or class II with functional earth The 8th "*" is optional, when 7th "*" is P2, the 8th "*" can be TPNA means class II with power supply cord with USA plug; when 7th "*" is P3, the 8th "*" can be TPNA means class I or class II with functional earth with power supply cord with USA plug. The last "*" denote any six character, which can be 0-9 or A-Z or ()[] or - or a character for marketing purposes, the "-*" can be a character.) All the models have similar construction of PCB but the rating output are different.
Ratings	Input: For Open Frame, L Frame and Cage models: 100-240V~, 50-60Hz or 50/60Hz, 3A; For Potted/Encapsulated models: GT*96225*P*****-TPNA*: 100-120V~, 50-60Hz, 3A. Output: 12.0-54.0Vdc, Max. 18.75A, Max. 225W. See section 7.0, Illustrations No.1 for details.
Other Ratings	N/A

2.0 Product Description

Conditions of Acceptability

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. The power supply shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
2. Temperature testing and abnormal operating condition were performed on this component while full load from either one of the branch circuit outlets. They should be double checked when installed in the end product.
3. Mechanical Abuse testing for the enclosure was not conducted and should be considered in the end use.
4. The products were not intended to be used in a maximum ambient exceeding 80°C. Where the products are used in an ambient condition exceeding 50°C, de-rating the output power in accordance to the Illustrations No.1 is required. For models with output power more than 140W, fan (Max.12Vdc, max.15W) should provide approximately 10CFM, the DC fan is 5cm away from the the products.
5. Leakage current test and all dielectric voltage withstand test were performed only on the potion of built-in power supply, the other part of tests should be double evaluated about whether performed or not in the end product according to relevant standrad for end product.
6. For built-in power supply, the suitable wiring and terminals shall be adopted according manufacturer's specification and shall be evaluated in end product.
7. Further evaluation at the ultimate application is considered necessary: Enclosure (IP class), working voltage, dielectric strength, protection grounding and bonding, leakage current, strain relief, resistant to moisture, cautionary and warning marking, instruction.

3.0 Product Photographs

Photo 1 - External view for open frame models

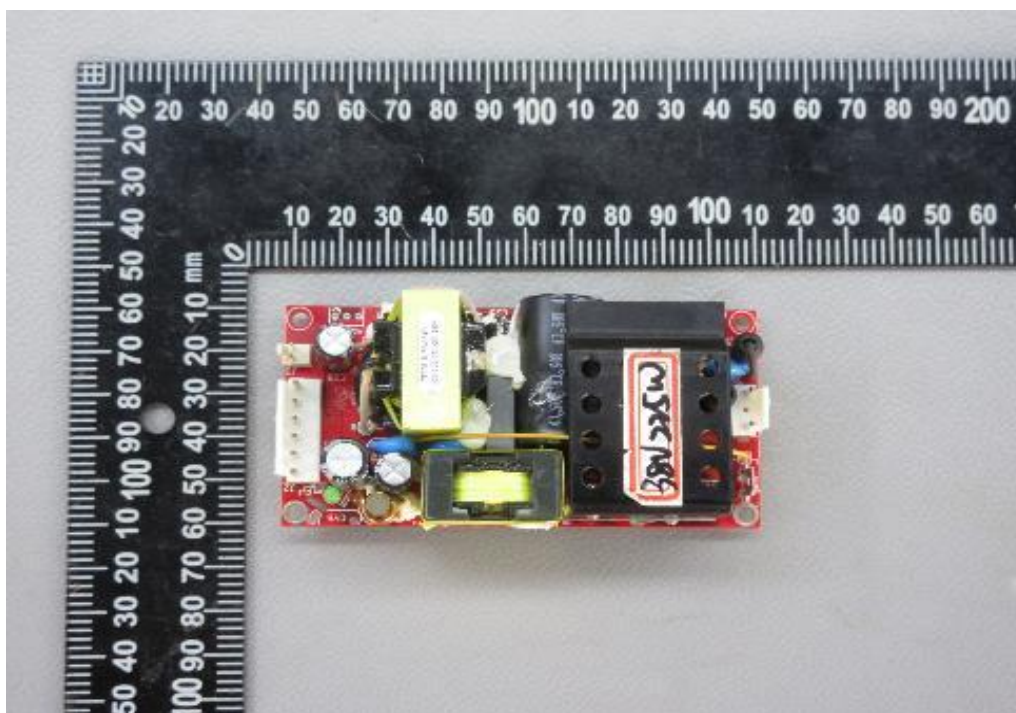
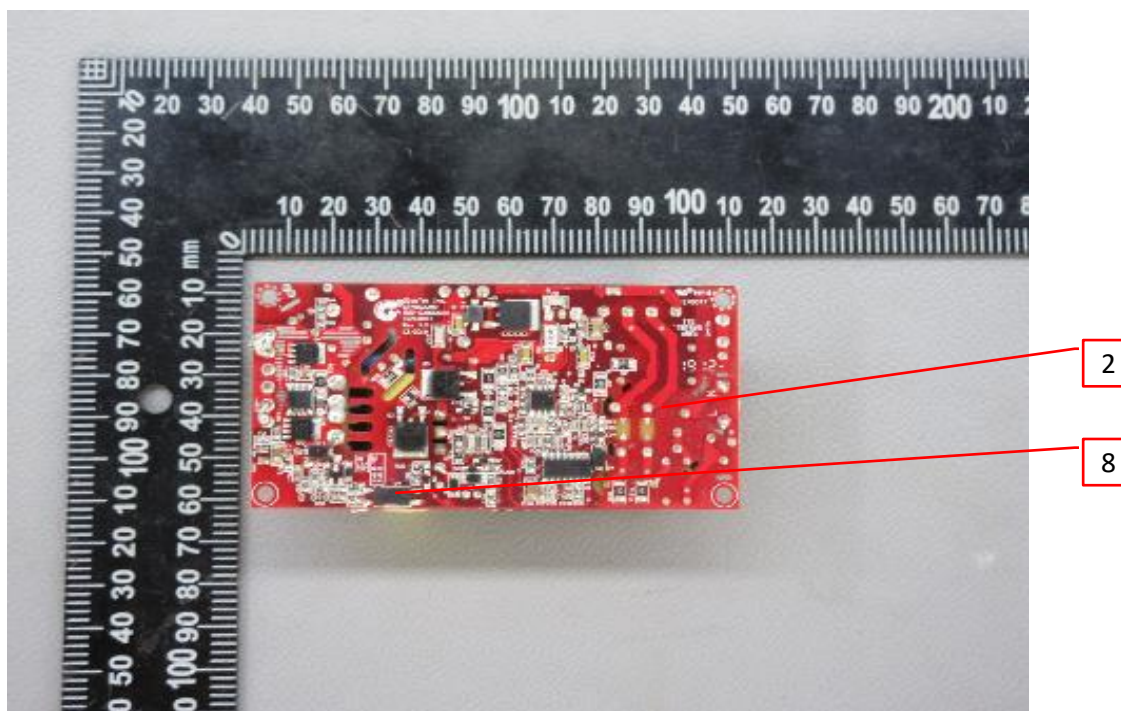


Photo 2 - External view for open frame models



3.0 Product Photographs

Photo 3 - External view for L frame models

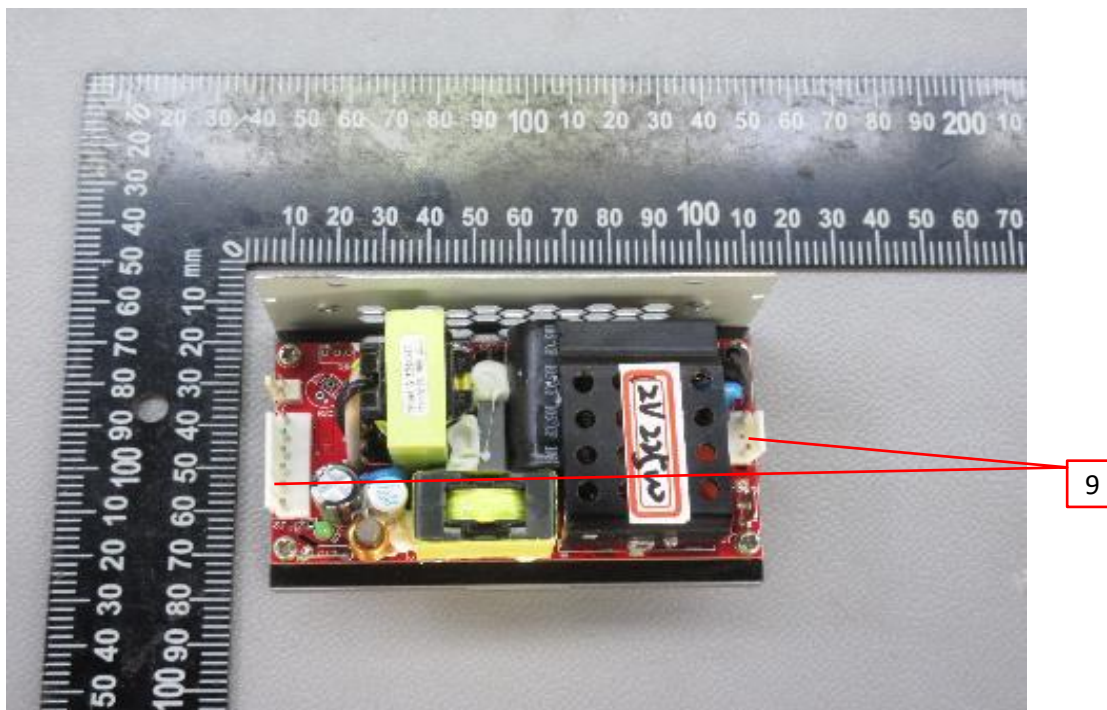
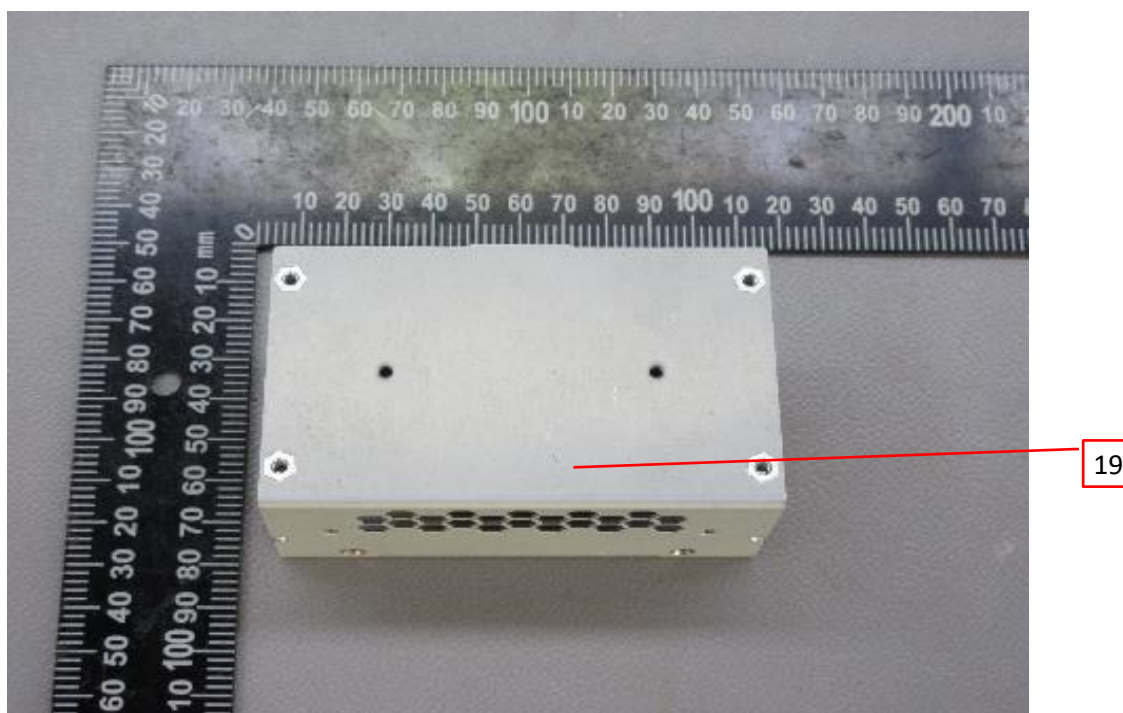
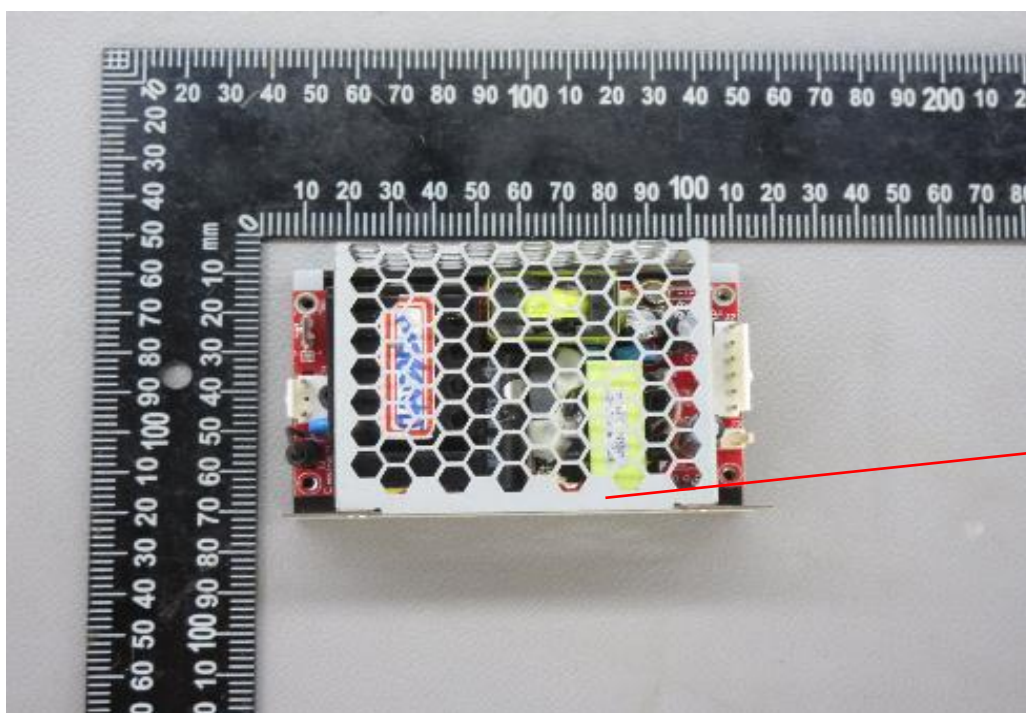


Photo 4 - External view for L frame models



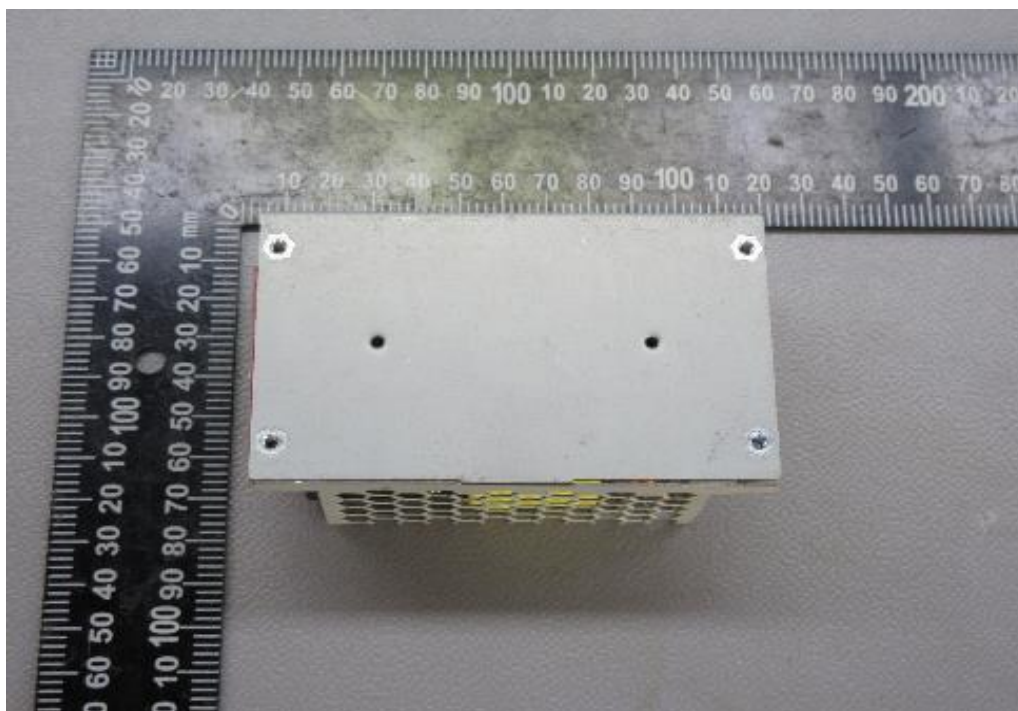
3.0 Product Photographs

Photo 5 - External view for cage models



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Photo 6 - External view for cage models

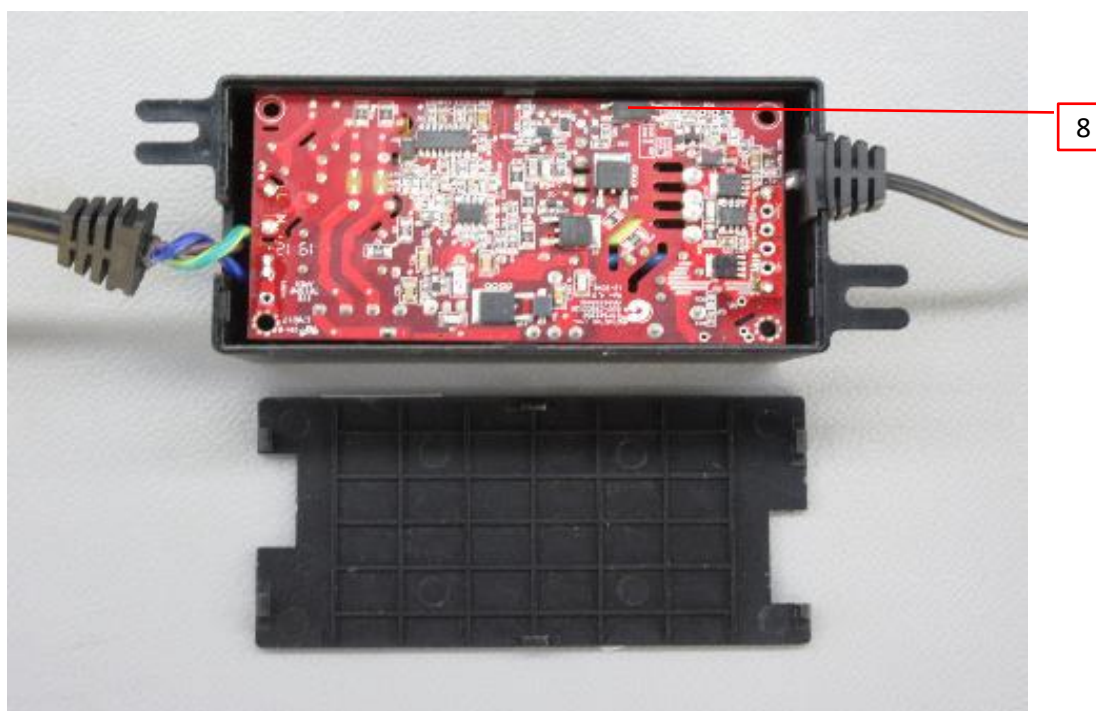


3.0 Product Photographs

Photo 7 - External view for potted models



Photo 8 - Internal view for potted models



3.0 Product Photographs

Photo 9 - Internal view for potted models

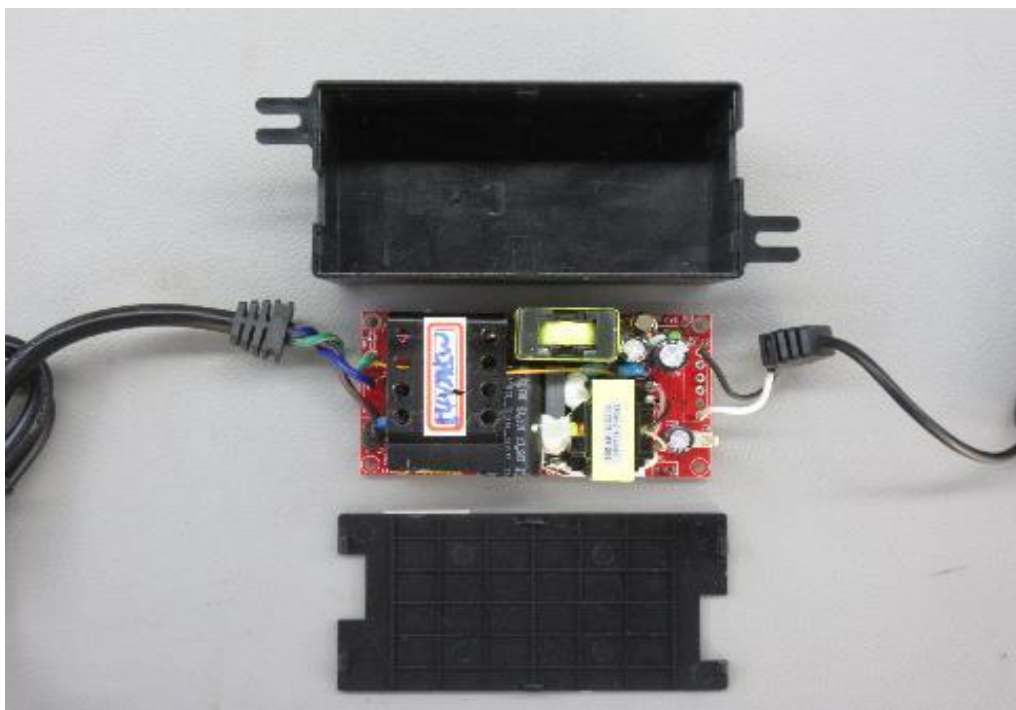
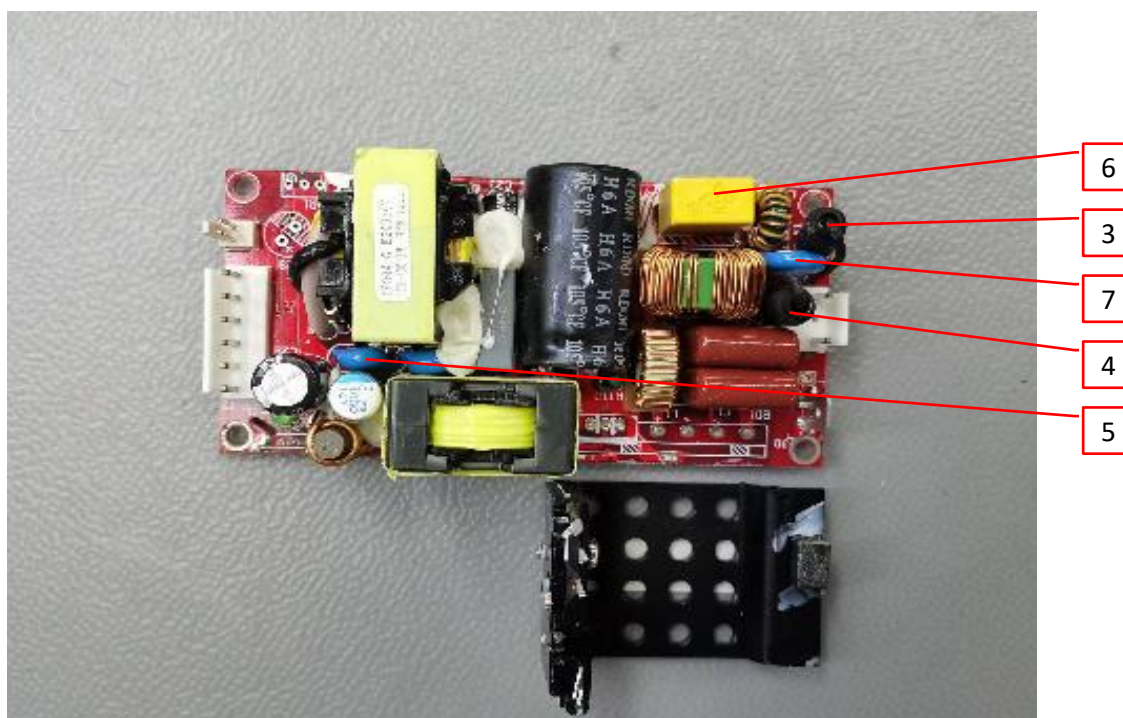


Photo 10 - PCB view



3.0 Product Photographs

Photo 11 - External view for open frame models

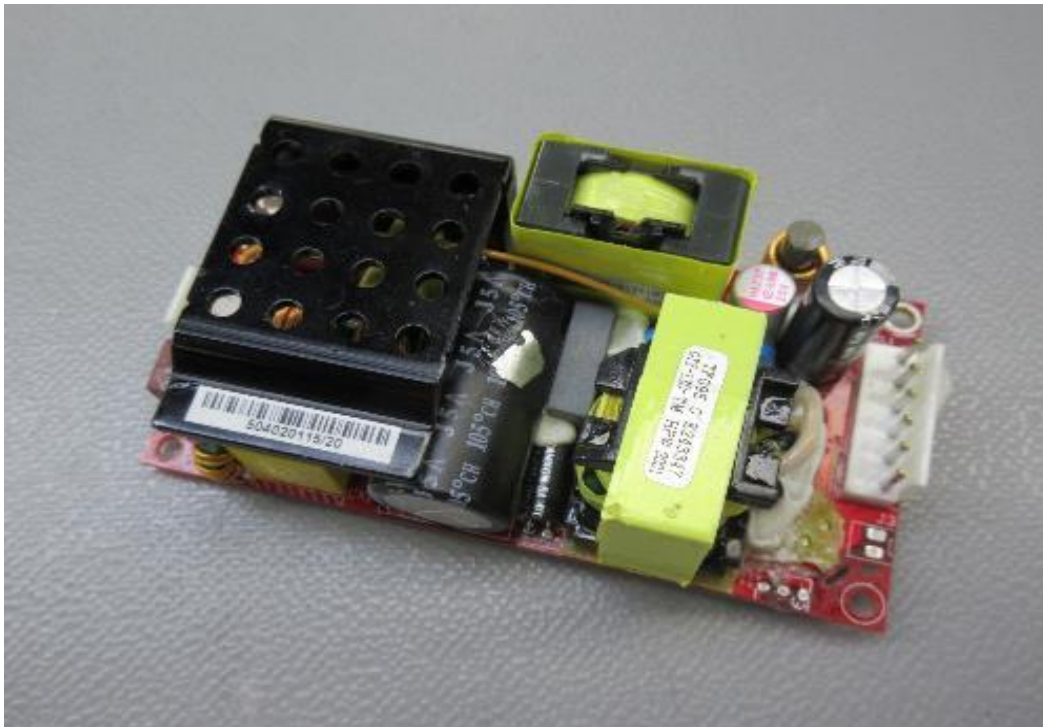
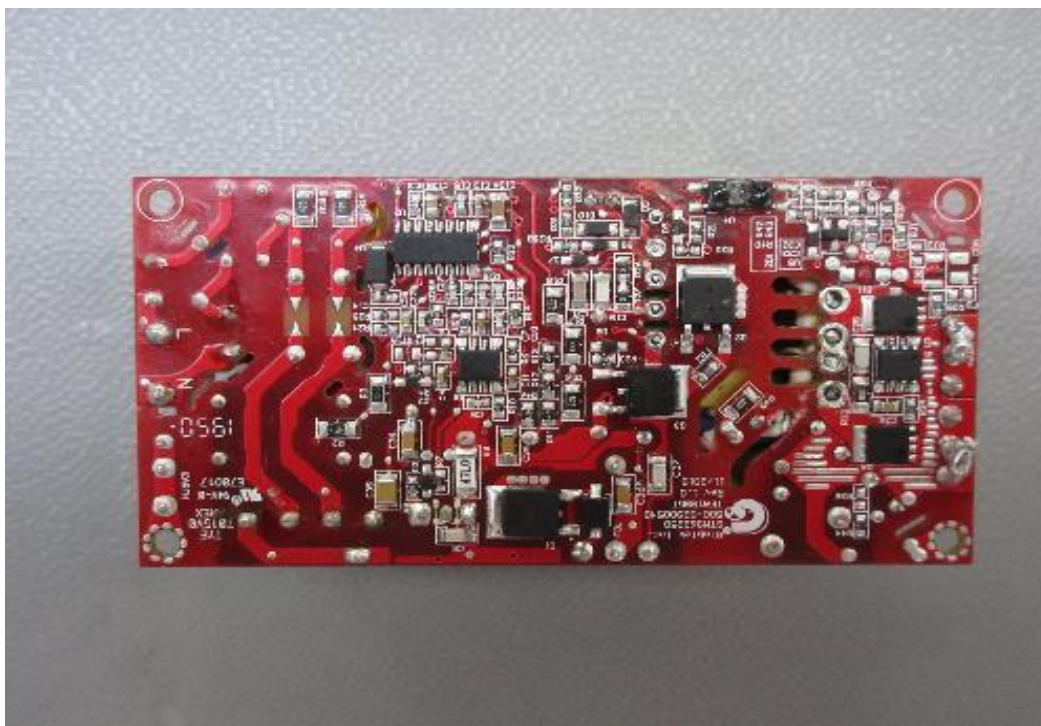


Photo 12 - External view for open frame models



3.0 Product Photographs

Photo 13 - Transformer

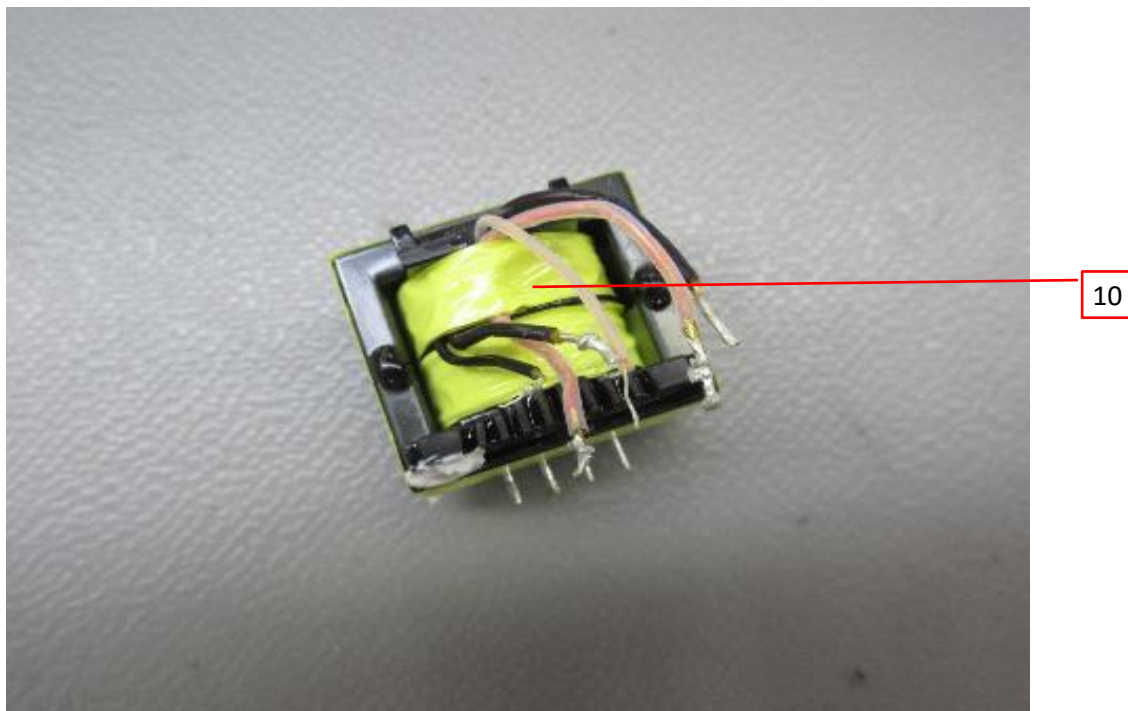
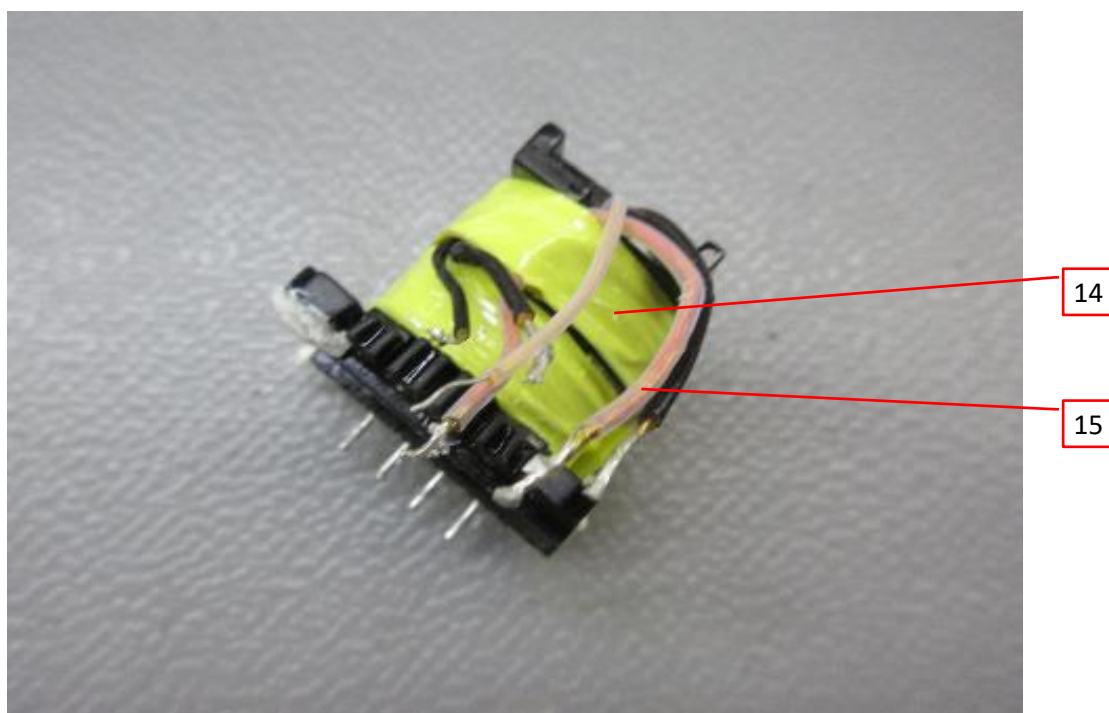


Photo 14 - Transformer



3.0 Product Photographs

Photo 15 - Transformer

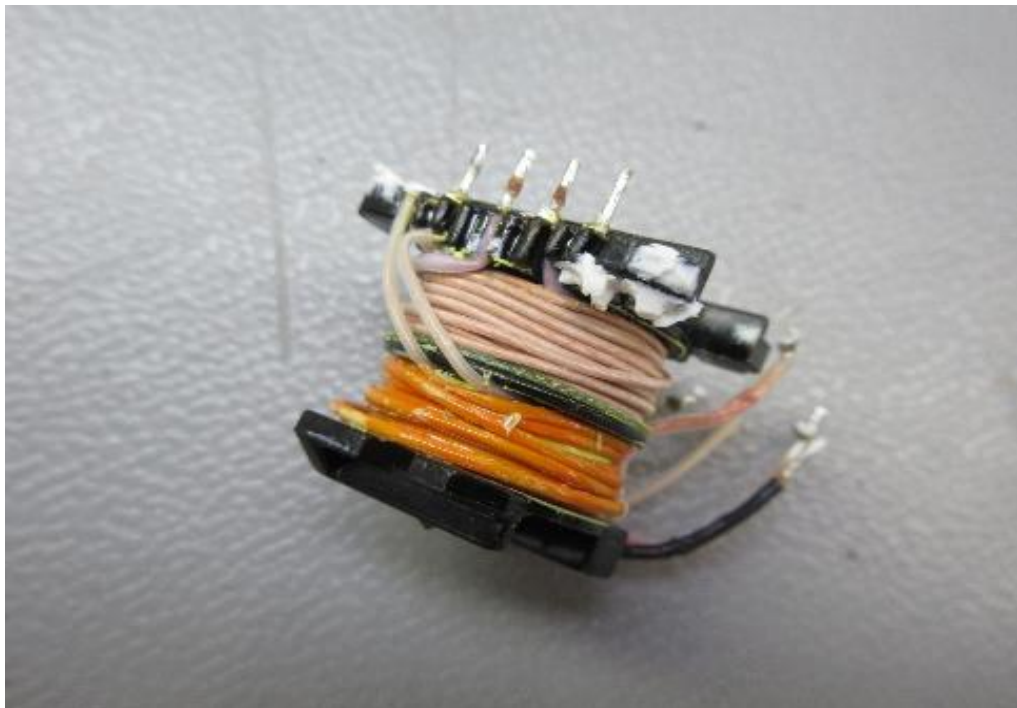
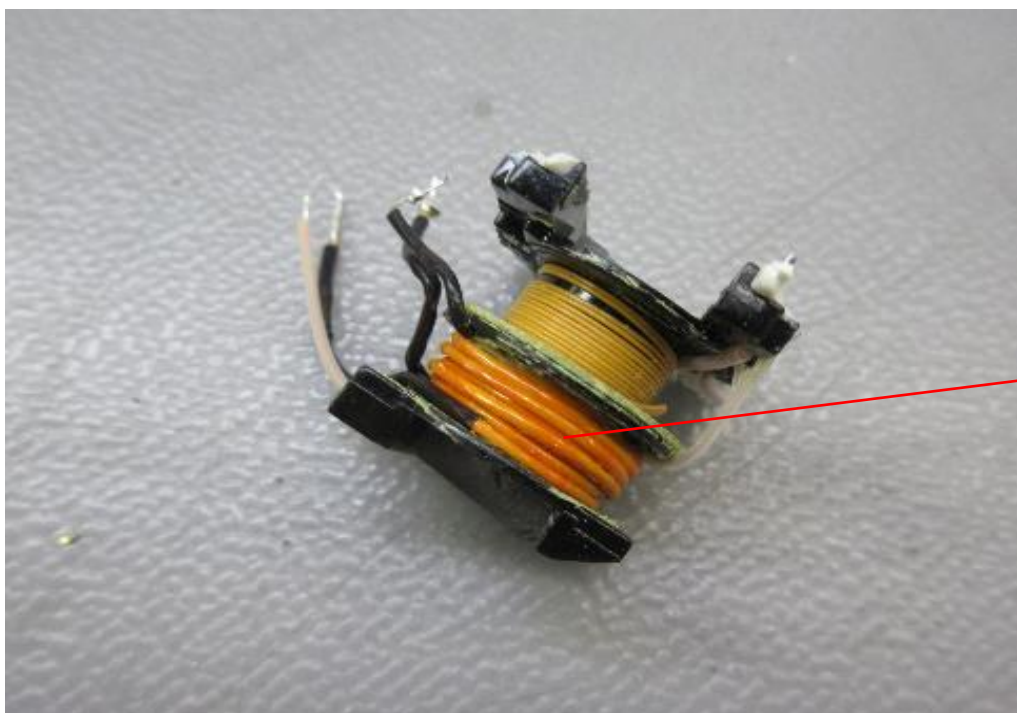


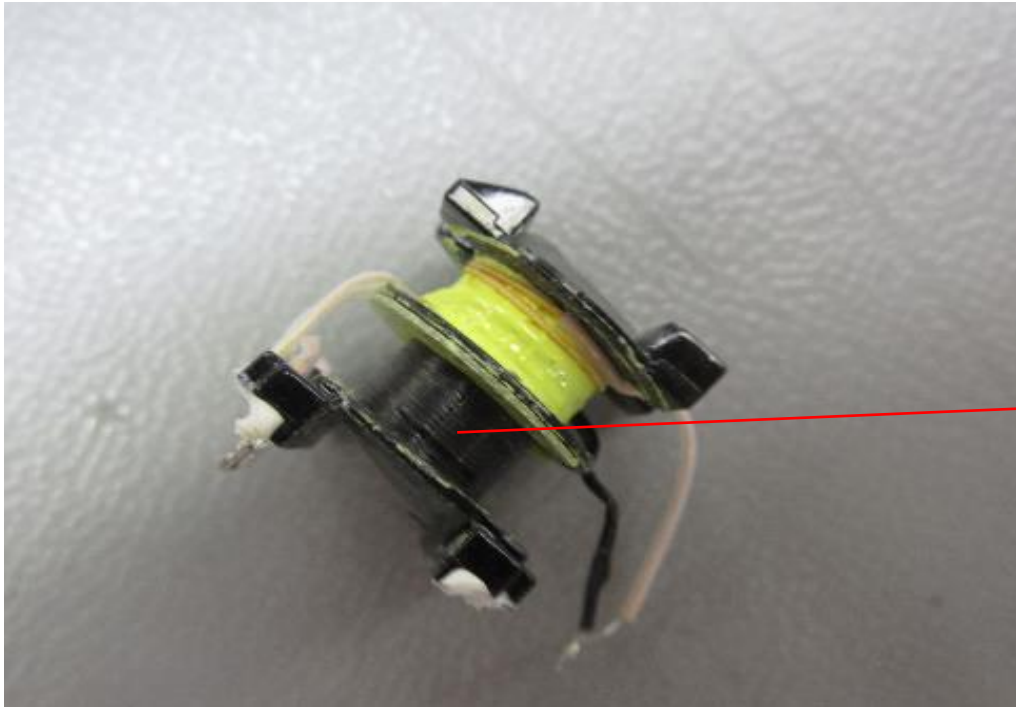
Photo 16 - Transformer



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3.0 Product Photographs

Photo 17 - Transformer



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Photo 18 - Transformer

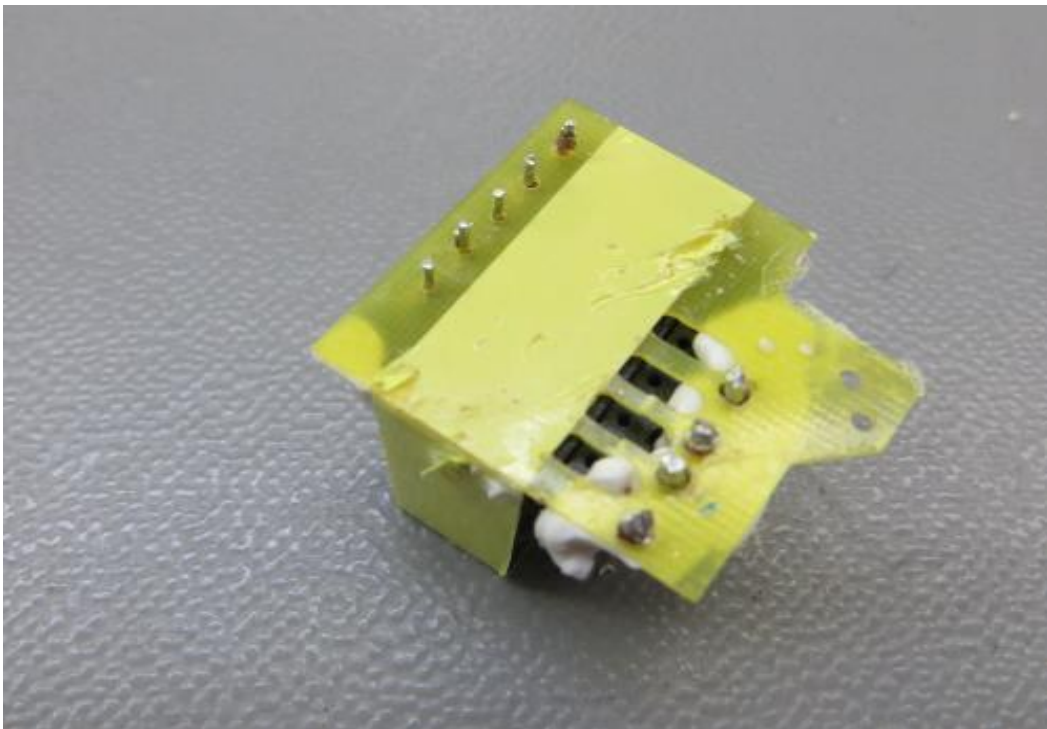


3.0 Product Photographs

Photo 19 - Transformer



Photo 20 - Transformer



3.0 Product Photographs

Photo 21 - Transformer

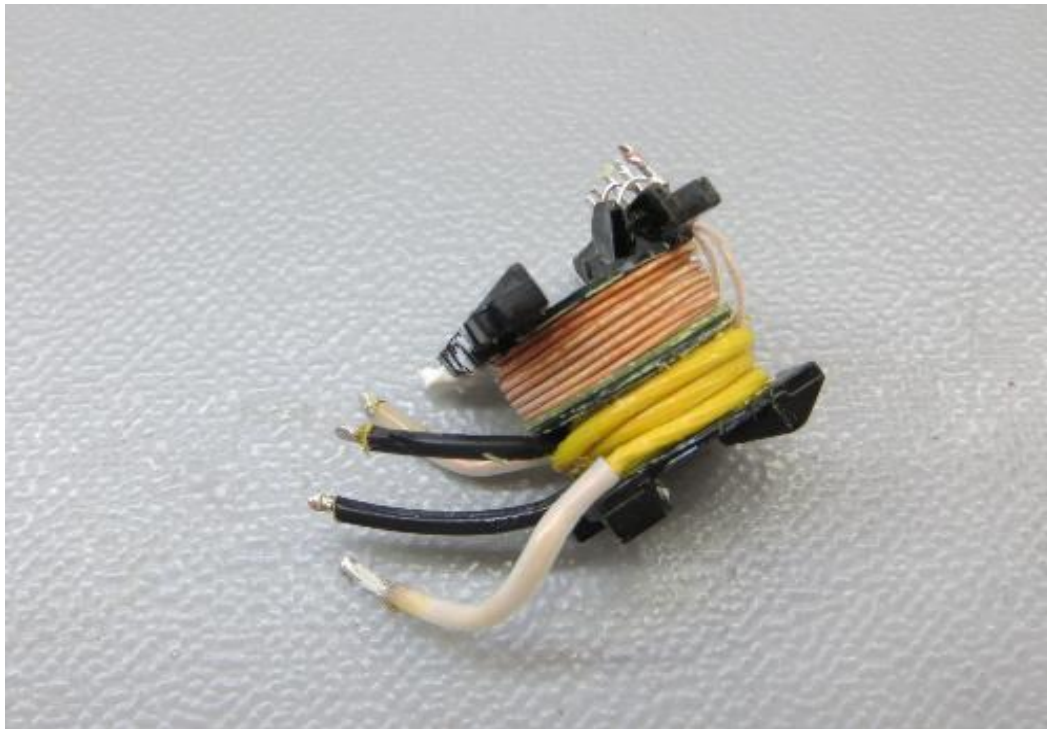


Photo 22 - Transformer



3.0 Product Photographs

Photo 23 - Transformer



Photo 24 - External view for -TPNA models



3.0 Product Photographs

Photo 25 - External view for -TPNA models



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
7	1	Plastic cover	SABIC INNOVATIVE PLASTICS B V	945(GG)	Min. V-0, Min. 120°C, Min. 2.0mm thickness	cURus
			SABIC JAPAN L L C	945(GG)	For models GTM962253P*****_**	
2	2	PCB	JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-2	V-0, 130°C, Min.1.6 mm thickness	cURus
			SHUANG MING INDUSTRY CO LTD	T005V0	V-0, 130°C, Min.1.6 mm thickness	
				T015V0		
			SHANGHAI H-FAST ELECTRONICS CO LTD	211001	V-0, 130°C, Min.1.6 mm thickness	
			GUANGDE BOYA XINXING ELECTRONIC TECHNOLOGY CO LTD	BY-1	V-0, 130°C, Min.1.6 mm thickness	
			SHENZHEN GOLDEN BOARD CIRCUIT	JYH-2	V-0, 130°C, Min.1.6 mm thickness	
			ZHEJIANG WANZHENG ELECTRONICS SCIENCE & TECHNOLOGY CO LTD	JWZ-2	V-0, 130°C, Min.1.6 mm thickness	
10	3	Current fuse	Conquer Electronics Co., Ltd.	UDA series	T4A, 250V (F1, F2, F2 is optional)	cURus
			Suzhou Walter Electronic Co. Ltd.	TSC Series		
			Conquer Electronics Co., Ltd.	MST		
			Suzhou Walter Electronic Co. Ltd.	2010		
			Bel Fuse Ltd.	RST		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Dongguan Better Electronics Technology Co., Ltd.	932		
			Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10		
			Suzhou Walter Electronic Co. Ltd.	ICP-Series		
10	4	Heat shrinkable tubing (optional)	SHENZHEN WOER HEAT SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C, VW-1	cURus
				RSFR-H		
				RSFR-HPF		
			QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C, VW-1	
			DONGGUAN SALIPT CO LTD	SALIPT S-901-300	300V, 125°C, VW-1	
				SALIPT S-901-600	600V, 125°C, VW-1	
			GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2	300V, 125°C, VW-1	
				K-2 (CB)	600V, 125°C, VW-1	
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	300V, 125°C, VW-1	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
10	5	Y-Capacitor (optional)	TDK Corporation	CD	Min.250V, 125°C, Max.4700pF, Y1 type (CY3, CY4)	cURus
			SUCCESS ELECTRONICS CO LTD	SE		
			SUCCESS ELECTRONICS CO LTD	SB		
			Walsin Technology Corp.	AH		
			Haohua Electronic Co.,Ltd	CT 7		
			Murata Mfg. Co., Ltd.	KX		
			JYA-NAY CO LTD	JN		
			JYH CHUNG ELECTRONICS CO LTD	JD		
			WELSON INDUSTRIAL CO LT D	WD		
10	6	X capacitor (optional)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	Max. 0.47μF, Min. 250V, Min. 100°C, X2 type (CX1)	cURus
			Tenta Electric Industrial Co. Ltd.	MEX		
			Joey Electronics (Dong Guan) Co., Ltd.	MPX		
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX		
			Cheng Tung Industrial Co., Ltd.	CTX		
			Dain Electronics Co., Ltd.	MEX		
				MPX		
				NPX		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
10	7	Varistor (optional)	CENTRA SCIENCE CORP	CNR-10D471K	For open frame models: Min. 300Vac(rms), fulfilled 6kV/3kA pulse test, Min. 105°C, the coating is V-0. MOV1	cURus
				CNR-14D471K		
			Thinking Electronic Industrial Co., Ltd.	TVR10471K		
				TVR14471K		
			SUCCESS ELECTRONICS CO LTD	SVR10D471K		
				SVR14D471K		
			CERAMATE TECHNICAL CO LTD	GNR10D471K		
				GNR14D471K		
			BestBright Electronics Co. Ltd	10D471K		
				14D471K		
			Xianmen Set Electronics Co., Ltd.	TFV8S471K	For potted models and open frame models: Min. 300Vac(rms), fulfilled 6kV/3kA pulse test, Min. 105°C, the coating is V-0. MOV1	
2, 8	8	Photo coupler	VISHAY Semiconductor GmbH.	TCLT1009	U4, Double protection optical isolators, providing Min. 5000 vac isolation	cURus
				VOL618A		
			Everlight Electronics Co., Ltd.	EL1019		
			COSMO Electronics Corporation	KT1019		
				Lite-On Technology Corporation	LTV-10xx	
3	9	Connector	JAPAN SOLDERLESS TERMINAL MFG CO LTD	VH series	240Vac, 7A J1 and J2 For open frame models and L frame models	cURus
				TF094	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 12-14.9VDC;	
				TF095	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 15-18.9VDC;	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
13	10	Transformer	GlobTek	TF096	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 19-23.9VDC;	NR
				TF097	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 24-31.9VDC;	
				TF098	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 32-41.9VDC;	
				TF099	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 42-54VDC;	
			HAOPUWEI	TF094	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 12-14.9VDC;	
				TF095	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 15-18.9VDC;	
				TF096	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 19-23.9VDC;	
				TF097	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 24-31.9VDC;	
				TF098	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 32-41.9VDC;	
				TF099	Class B, with insulation system and critical component items (10a - 10e); Used for models with output voltage 42-54VDC;	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
13	11	Insulation system (not shown)	Globtek	GTX-130-TM	Class B	cURus
			Haopuwei	ZT-130		
17	12	Bobbin	Resonac Techno Service Corporation	CP-J-8800	Phenolic, V-0, 150 °C, Min. thickness 0.45mm	cURus
			SUMITOMO BAKELITE CO LTD	PM-9820		
			CHANG CHUN PLASTICS CO LTD	T375J		
				T375HF		
16	13	Triple-insulated wire	Great Leoflon Industrial Co Ltd	TRW(B)*	Reinforced insulation, 130°C	cURus
				TRW(B)-I*		
			TOTOKU INC.	TIW-2X\$+		
			HOI LUEN ELECTRICAL MFR CO LTD	THL-F-xx		
				THL-F-SB-xx		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
14	14	Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	Min.130°C	cURus
				1350T-1		
				44		
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ		
				CT		
				WF		
			JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A(b)		
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX(a)(b)		
14	15	Tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT	Min. 300V, 200°C	cURus
				TFS		
			SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C	
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T	Min. 300V, 200°C	
				CB-TT-S		
			24	16	Power plug	
Yung Li Co Ltd	YC-12					
Self-Man Industrial Co	SM-001	Min.125V, Min.10A For models GT*96225*P****- P3-TPNA*				
24	17	Power flexible cable	Yung Li Co. Ltd.	SJTW	2 x 18AWG, 105°C For models GT*96225*P****- P2-TPNA*	cURus
			I Sheng Electronics (Kunshan) Co Ltd	SJTW		
			Yung Li Co. Ltd.	SJTW	3 x 18AWG, 105°C For models GT*96225*P****- P3-TPNA*	
			I Sheng Electronics (Kunshan) Co Ltd	SJTW		
24	18	Output cable	Suzhou Jiahuishu Electronic Co Ltd	1185	VW-1, 300V, 14AWG, 80°C For potted models	cURus
			Various	Various	VW-1, Min. 60V, Min. 14AWG, Min. 80°C For potted models	
4, 5	19	Metal enclosure	Various	Various	Min. 0.6mm thickness For L frame models and cage models	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	20	Earthing wire (not shown)	Great Leoflon Industrial Co Ltd	TRW(B)*	Multi-layer Insulated Winding Wire, Reinforced, 130°C, For Class I models or class II models with functional earth	UR
			Hoi Luen Electrical Mfr Co Ltd	THL-F-xx		
				THL-F-SB-xx		
			Furukawa Electric Co Ltd	TEX-E		

NOTES:

- 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.
- 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.
- 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.
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6.0 Critical Features

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

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

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

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

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

1. Spacing - In primary circuits, 1.5 mm minimum spacing are maintained through air and 2.4 mm minimum spacing are maintained over surfaces of insulating material between current-carrying parts of opposite polarity and 3.0 mm minimum spacing are maintained through air and 4.8 mm minimum spacing are maintained over surfaces between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - For adapter models, all uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings and metal enclosure earthed with ventilation holes other than those specifically described in Sections 4 and 5.
5. Grounding - For adapter models with earthing connection, all exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord and the equipment grounding terminal. For adapter models without earthing connection, the products are not provided with grounding means as they are reinforced insulated.
6. Polarized Connection - This product is provided with a non-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.
8. Schematics - Refer to Illustrations No(s). 2-3 for schematics & PCB layout requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked as follows:
 - a. Brand name: refer to sec. 2.0
 - b. Model: refer to sec. 2.0
 - c. electrical ratings: refer to sec. 2.0
10. Cautionary Markings - none required.
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. They are kept in file and need not be repeated here.
12. Transformer - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 10) was constructed as indicated in Illustrations No(s). 4-6. These records must be available at the factory for inspection on every received shipment.

7.0 Illustrations

Illustration 1 - Model list

Model without AUX output voltage	Output Voltage	Max. output current	Max. output power
GT*96225*P**-F/FW/P2/P3-**- GT*96225*P**F/FW/P2/P3-**-	12.0-54.0Vdc	18.75A	225W
GT*96225*P**-C-F/FW/P2/P3-**- GT*96225*P**-CF/FW/P2/P3-**-			
GT*96225*P**-D-F/FW/P2/P3-**- GT*96225*P**-DF/FW/P2/P3-**-			

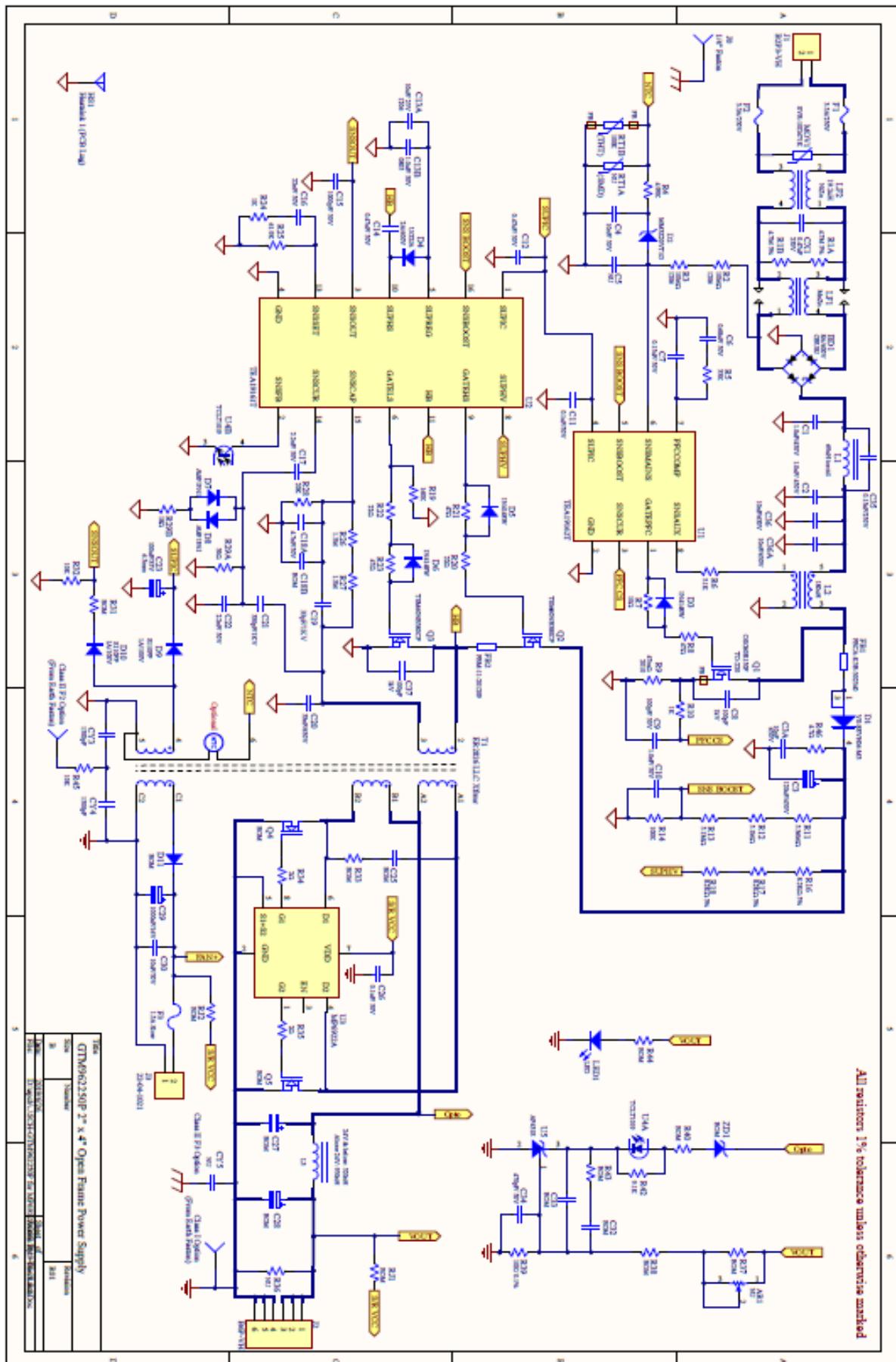
Model with AUX output voltage	Main Output Voltage	Max. output current	AUX output voltage	AUX output current	Max. output power
GT*96225*P**A*-F/FW/P2/P3-**- GT*96225*P**A*F/FW/P2/P3-**-	12.0-54.0Vdc	18.75A	12Vdc	Max 1.2A	225W
GT*96225*P**B*-F/FW/P2/P3-**- GT*96225*P**B*F/FW/P2/P3-**-	12.0-54.0Vdc	18.75A	5Vdc	Max 1.2A	225W
GT*96225*P**C*-F/FW/P2/P3-**- GT*96225*P**C*F/FW/P2/P3-**-			6Vdc		225W
GT*96225*P**D*-F/FW/P2/P3-**- GT*96225*P**D*F/FW/P2/P3-**-			7Vdc		225W
GT*96225*P**E*-F/FW/P2/P3-**- GT*96225*P**E*F/FW/P2/P3-**-			8Vdc		225W
GT*96225*P**F*-F/FW/P2/P3-**- GT*96225*P**F*F/FW/P2/P3-**-			9Vdc		225W
GT*96225*P**G*-F/FW/P2/P3-**- GT*96225*P**G*F/FW/P2/P3-**-			10Vdc		225W
GT*96225*P**H*-F/FW/P2/P3-**- GT*96225*P**H*F/FW/P2/P3-**-			11Vdc		225W

Note: AUX Output voltage: Supply for DC fan.

Model names	Max. Ambient	Forced Air (Max. Power)	Natural convection (Max. Power)
GT*962250P*****-**- GT*962251P*****-**- GT*962252P*****-**-	50	225W	140W
	60	225W	100W
	70	205W	60W
	80	160W	20W
GT*962253P*****-**-	40	--	140W

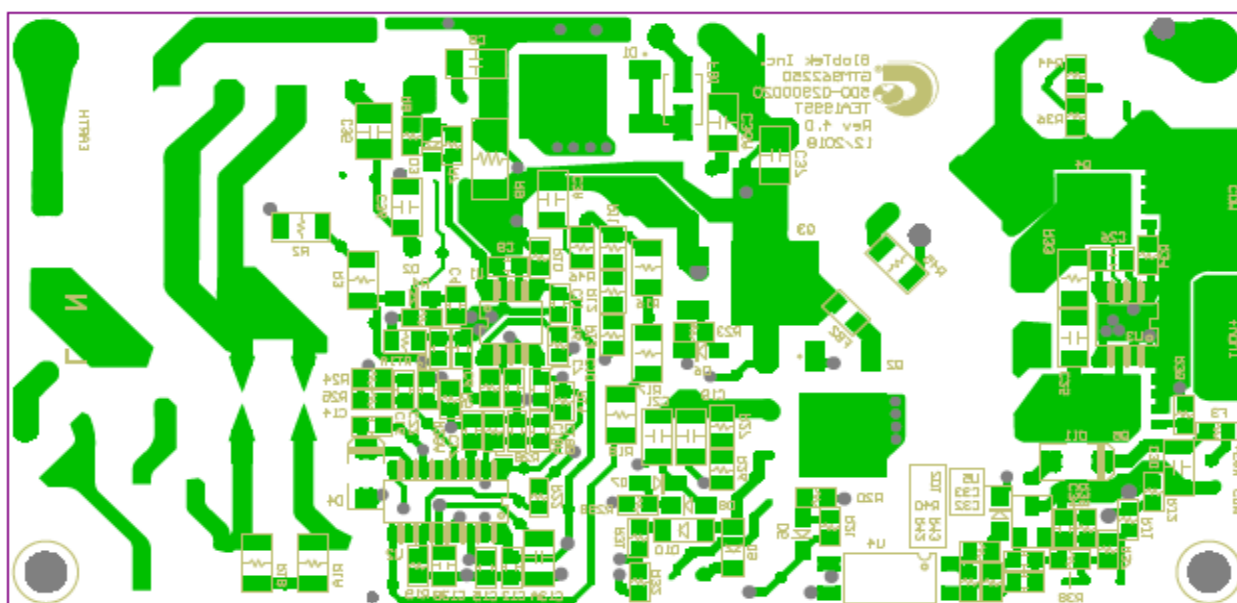
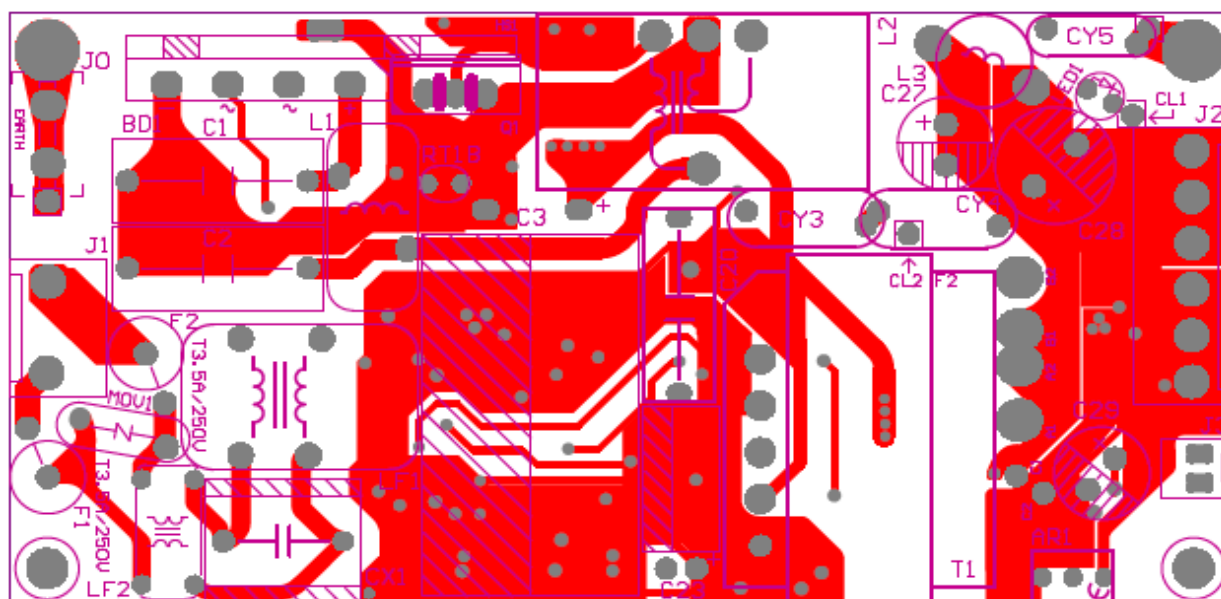
7.0 Illustrations

Illustration 2 - Schematics



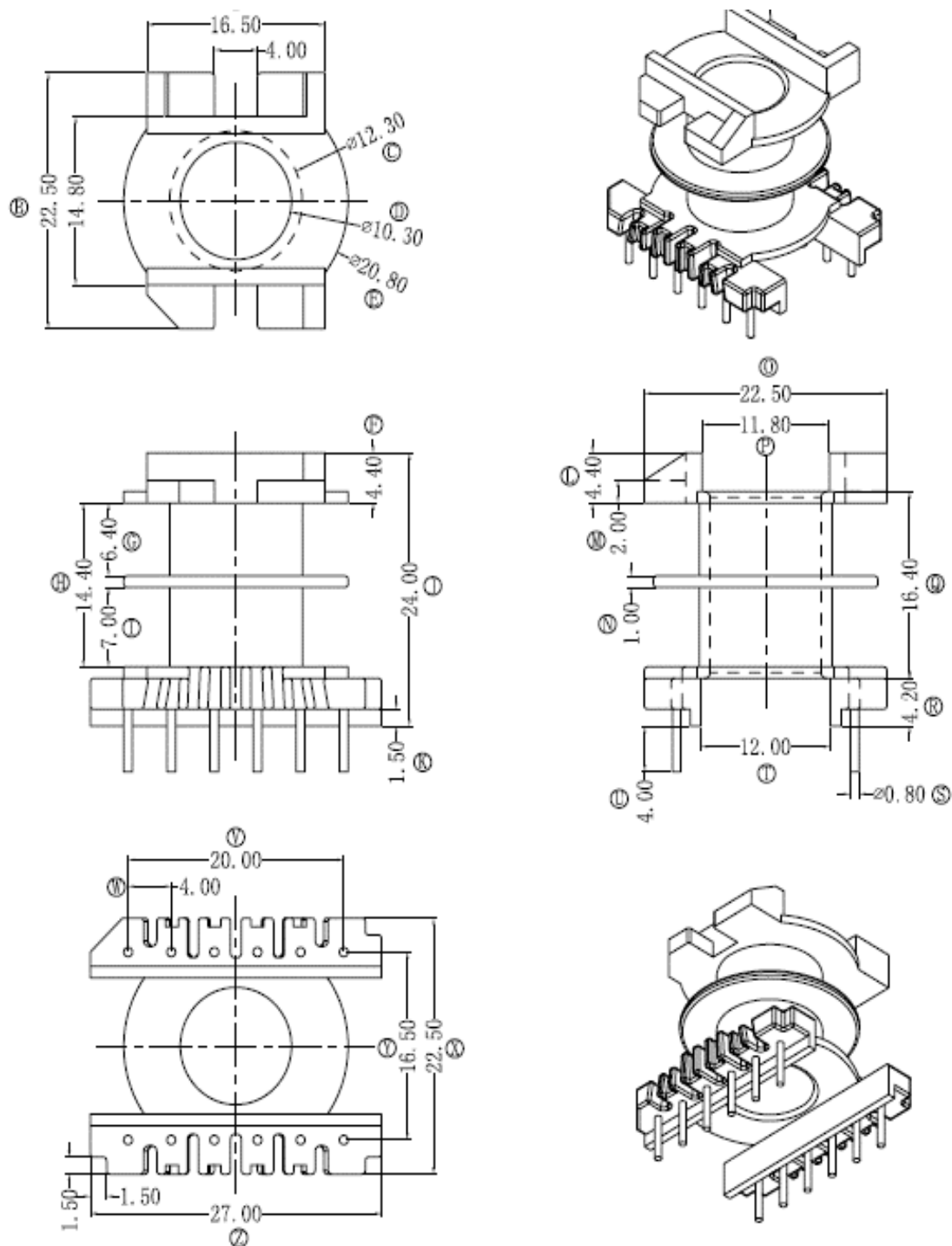
7.0 Illustrations

Illustration 3 - PCB layout



7.0 Illustrations

Illustration 4 - Transformer specification



7.0 Illustrations

Illustration 5 - Transformer specification (Cont.)

产品编号 Article No.			
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产品外尺寸视图：

Mechanical Dimension (unit: mm) :

XX-VENDOR CODE
YY-YEAR
WW-WEEK

Finished Height =
25.5mm +/- 0.6mm

TOP VIEW

22.5mm

29.8mm

Secondary Side View

C2 C1 A1 A2 B1 B2

Use Black and Clear tubing for Secondary

Primary Side View

2 3 4 5

Clear Tubing

C2 C1 A1 A2 B1 B2

注意事项 / Notes:

- PIN 脚长度 3.5 ± 0.2 mm
PIN length: 3.5 ± 0.2 mm
- 变压器表面没有锡珠或其他异物附着。
The transformer does not have solder balls or other dirt.
- 尺寸如图
All the dimension must be following the drawing.
- 均匀绕线
The winding must be distributed in the whole surface of the bobbin.
- 拔除脚1,6,7,8,9,10,11,12
Remove pins: 1,6,7,8,9,10,11,12
- 所有引脚出线要套特氟龙套管。
All wire to pin terminal need add teflon tube

To reduce audible noise,
Add epoxy inside xlmr center leg, and
Add 4 dots of epoxy to join ferrite.

Please check lead lengths using provided PCB.
Assembly must resemble above drawing.

Lead	Total Length	Insulation Length	Solder Length
C2	28mm	23mm	5mm
C1	22mm	17mm	5mm
A1	20mm	12mm	8mm
A2	27mm	19mm	8mm
B1	20mm	12mm	8mm
B2	32mm	24mm	8mm

制定	年 月 日	环球特科（苏州）有限公司 GlobTek(Suzhou) Co. Ltd.	制作	Prepared by	承认	Approved by
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Illustration 6 - Transformer specification (Cont.)

ED 16.3.15 (1-Jul-2022) Mandatory

8.0 Test Summary					
Evaluation Period	3-Nov-2025 to 10-Dec-2025			Project No.	2511B0589SHA
Sample Rec. Date	3-Nov-2025	Condition	Prototype	Sample ID.	A251103-37-001~020
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description			UL 62368-1:2019 Ed.3+R:22Oct2021 & CSA C22.2#62368-1:2019 Ed.3+U1 Clause		
Classification of electrical energy sources			5.2		
Accessibility to electrical energy sources and safeguards (Accessibility test)			5.3.2, Annex V		
Heating test and abnormal &fault condition test			5.4.1.4, 6.3, 6.4, 9.0, B.2.6, B.3, B.4, Annex G.5.3, G.5.4		
Determination of working voltage			5.4.1.8		
Ball pressure test			5.4.1.10.3		
Annex X, Measurement of Clearance and Creepage Distances			5.4.2, 5.4.3		
Humidity test			5.4.8		
Electric strength test			5.4.9		
Safeguards against capacitance discharge test			5.5.2.2		
Resistance of the protective bonding system (Ground continuity test)			5.6.6		
Measurement of touch current			5.7.2.1		
Unearthed accessible part test			5.7.4		
Earthed accessible conductive part test			5.7.5		
Electrical Power Source (PS) measurements for classification			6.2.2		
Determination of Potential Ignition Sources (Arcing PIS)			6.2.3.1		
Determination of Potential Ignition Sources (Resistive PIS)			6.2.3.2		
Openings of the fire enclosre			6.4.8.3.3, 6.4.8.3.4, 6.4.8.3.5		
Input test			Annex B.2.5		
Simulated abnormal operating and single fault Conditions			Annex B.3, B4		
Durability, legibility and permanence of markings			Annex F.3.10		
Limited power source test (LPS)			Annex Q.1		
Steady force test, 100N or 250N			Annex T.4, T.5		
Drop test			Annex T.7		
Stress relief test			Annex T.8		
Test Description			Functional Safety		
NA			Frank Song		

8.0 Test Summary

8.1 Signatures

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.

Completed by:	Adage Zhang	Reviewed by:	Sam Li
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

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

BASIC LISTEE	GlobTek, Inc.
Address	186 Veterans Dr. Northvale, NJ 07647
Country	USA
Product	ICT/ITE 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

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.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

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.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:

Intertek Testing Services (Shanghai FTZ) Co., Ltd

ETL Component Evaluation Center

Building No. 86, 1198 Qinzhou Road (North)

Shanghai 200233, China

Attn: Ms. Emiliana Zhou

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 primary circuits and accessible dead-metal parts. 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:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
<u>Product - One sample from each shipment of Section 4.0 item 10:</u>		
Between primary circuit and secondary output	4000Vdc	1 min
Between secondary circuit and core	4000Vdc	1 min
<u>Product - Model TF099 from each shipment of Section 4.0 item 10:</u>		
Between primary circuit and secondary output	4000Vdc	1 min
Between secondary circuit and core	4000Vdc	1 min
<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.		
Between input circuit and secondary circuit/output terminal	3600Vdc	1 s

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

ED 16.3.15 (1-Jul-2022) Mandatory