1.0 Reference and Address

Report Number	180401367SHA-001	Original Issued: 15-Mar-2019	Revised: None
Standard(s)	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]		

Applicant	GlobTek, Inc.	Manufacturer	**GlobTek (Suzhou) Co., Ltd.**
Address	186 Veterans Dr. Northvale, NJ07647	Address	Building 4. No 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021
Country	USA	Country	China
Contact	Mike Krakovyak	Contact	Demon Zhou
Phone	(201)784-1000 Ext.106	Phone	86 512 6279 0301 Ext.189
FAX	(201)784-0111	FAX	86 512 6279 0355
Email	Krakovyakm@globtek.com	Email	demon.zhou@globtek.cn

2.0 Product Description	
Product	ITE Power Supply
Brand name	GlobTek, Inc.
Description	Products covered by this report are power adapters, with AC inlet to be used with detachable power supply cord or with non-detachable power supply cord and is designed for continuous operation. Different appliance inlets used on the device, which can provide earthing terminal or not. Protective earthing connection to secondary circuit by internal wiring is optional, so it can be Class I or Class II construction. Both two constructions were in consideration in this report. Two pieces of outer enclosure are enclosed with screws. The product is not intended to use in the environment which altitude exceed 5000m. Test was conducted under 40°C ambient.
Models	GT followed by M, - or H; followed by 961600P or 961800P; followed by 01 to 180; followed by 12 to 54; followed by -T2, -T2A, -T3, -T3A or -TP; may be followed by six character.
Model Similarity	Followed by ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety. Followed by "01" to "180" denotes the rated output wattage designation, with interval of “01” ,“01” stands for 1W, “180” stands for 180W. Followed by "12" to "54" denotes the standard rated output voltage designation, with interval of "0.1V", “12” stands for 12V, “54” stands for 54V. Followed by "-T2" means desktop class II with C8 AC inlet; Followed by "-T2A" means desktop class II with C18 AC inlet; Followed by "-T3" means desktop class I with C14 AC inlet; Followed by "-T3A" means desktop class I with C6 AC inlet; Followed by "-TP" means desktop with power cord and US plug; Followed by any six character which can be "0" to "9", "A" to "Z", "-", "()" or "[]" or blank for marketing purposes and have no bearing on safety or compliance. All models have same circuit diagram, PCB layout and enclosure size. Transformers used in all models are with same construction. The turns of secondary winding may be added or reduced according different output voltage. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.
Ratings	Input: 100-240V~, 50-60Hz, 2.2A; Output: 12-54 VDC, Max.13.33A Max. 180W See illustration 1 for details.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - Front view

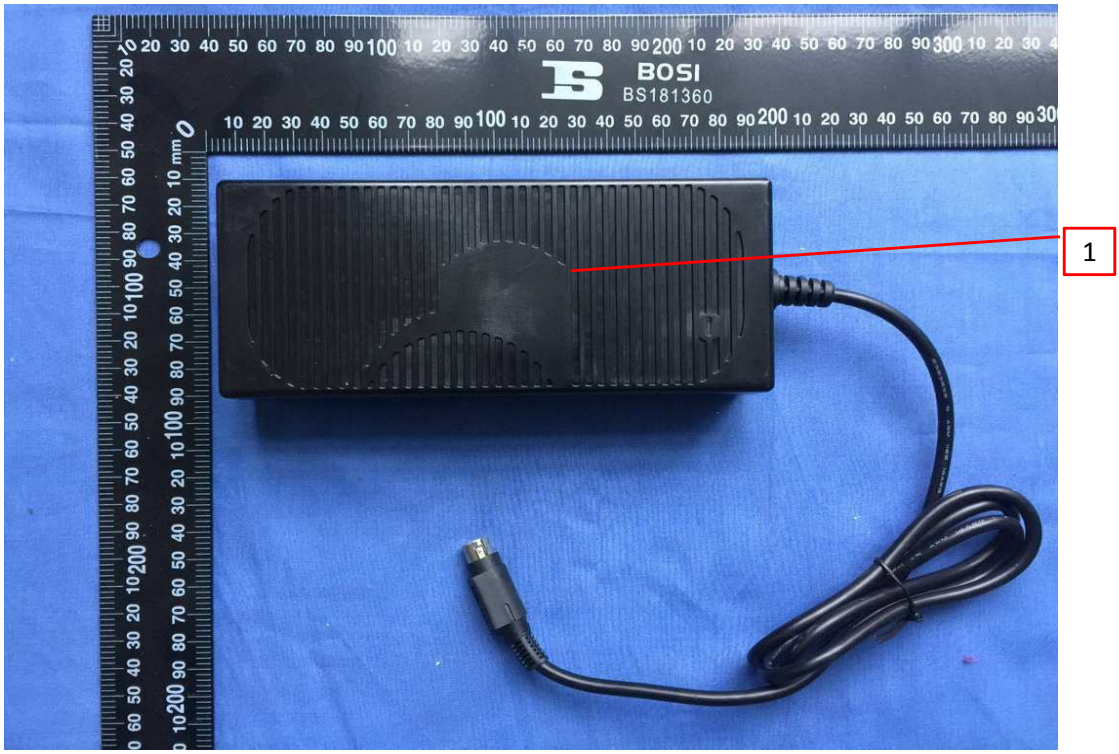


Photo 2 - Back view

3.0 Product Photographs

Photo 3 - Internal view with Top Enclosure Removed

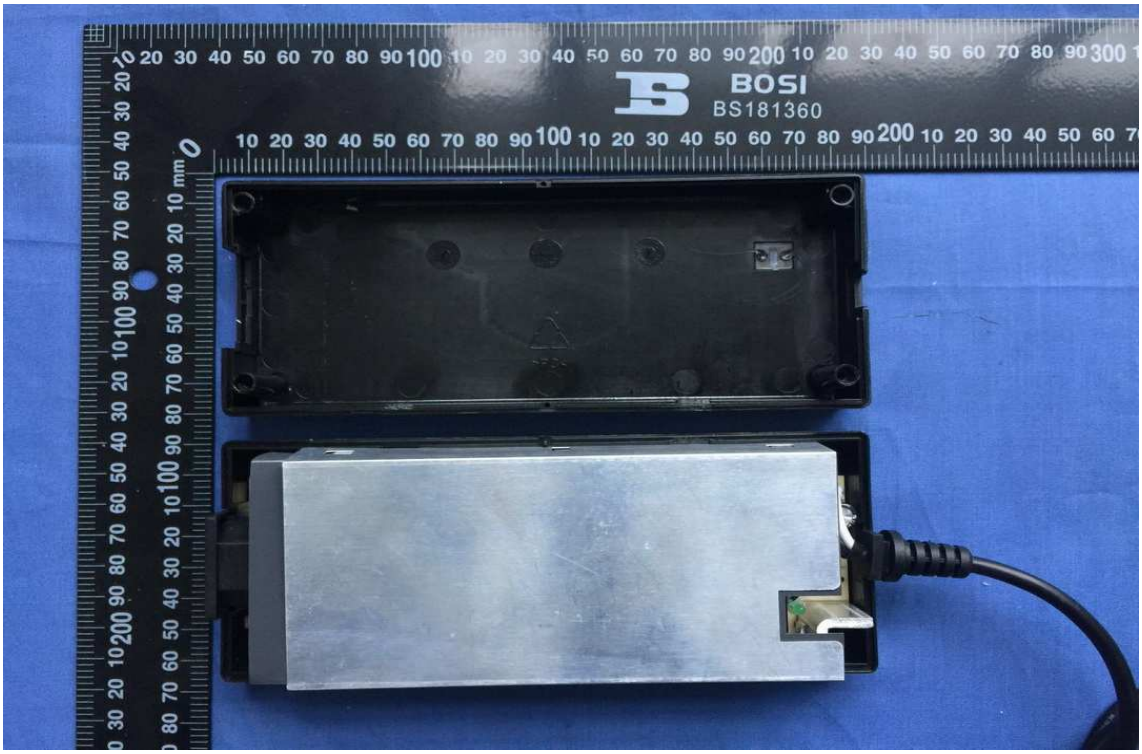
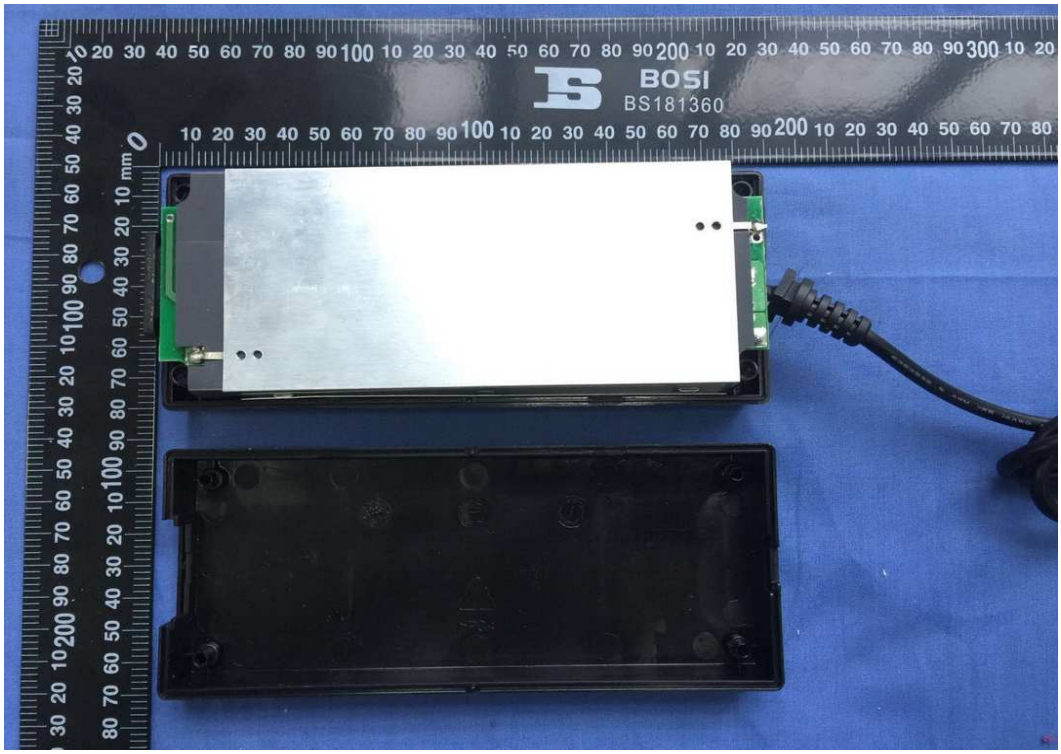


Photo 4 - Internal view with Lower Enclosure Removed



3.0 Product Photographs

Photo 5 - Internal view with Top Metal Cover Removed

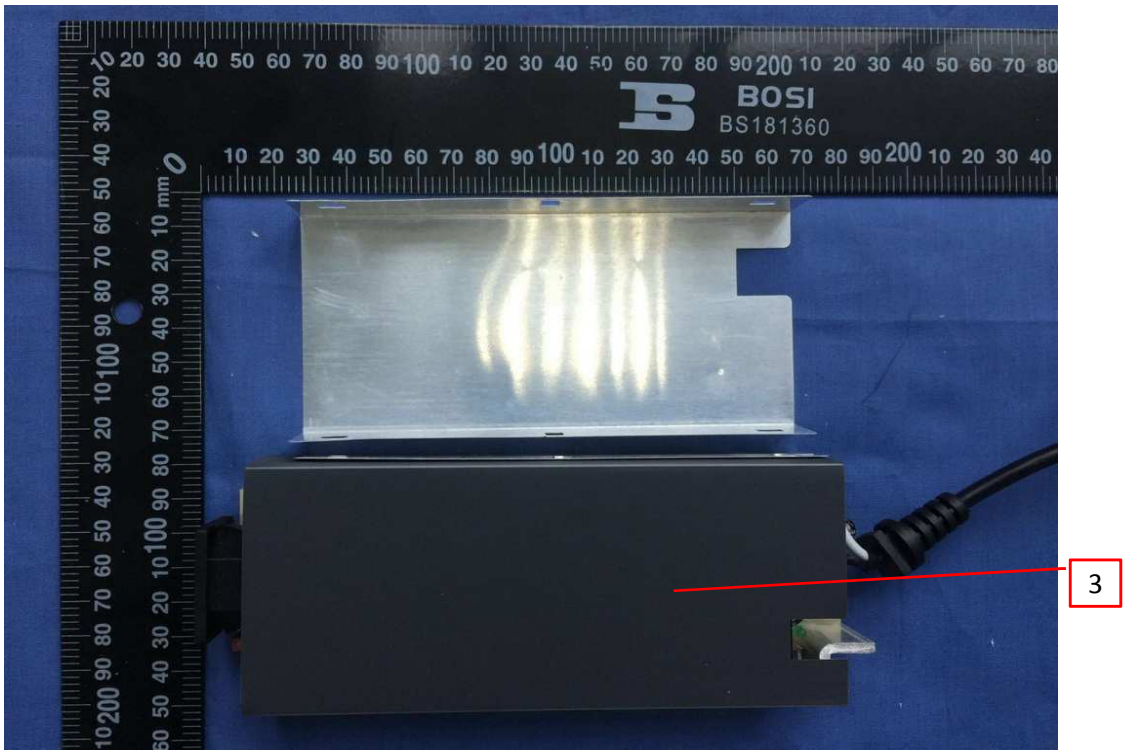
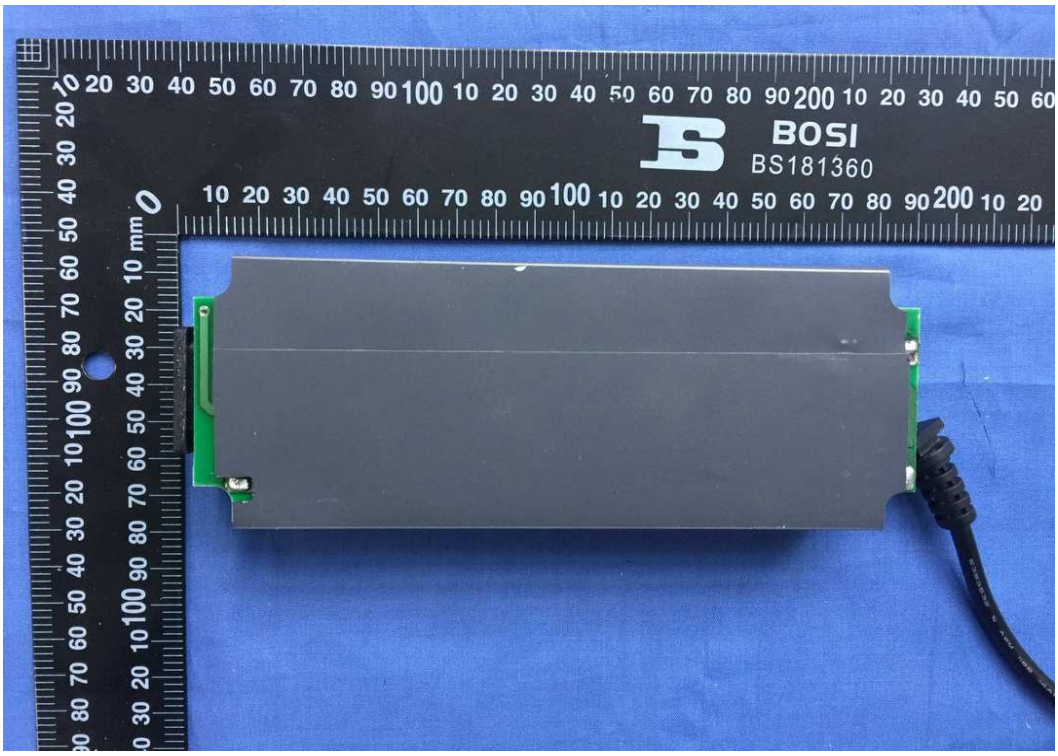


Photo 6 - Internal view with Lower Matel Cover Removed



3.0 Product Photographs

Photo 7 - Internal view with Insulation Sheet Removed

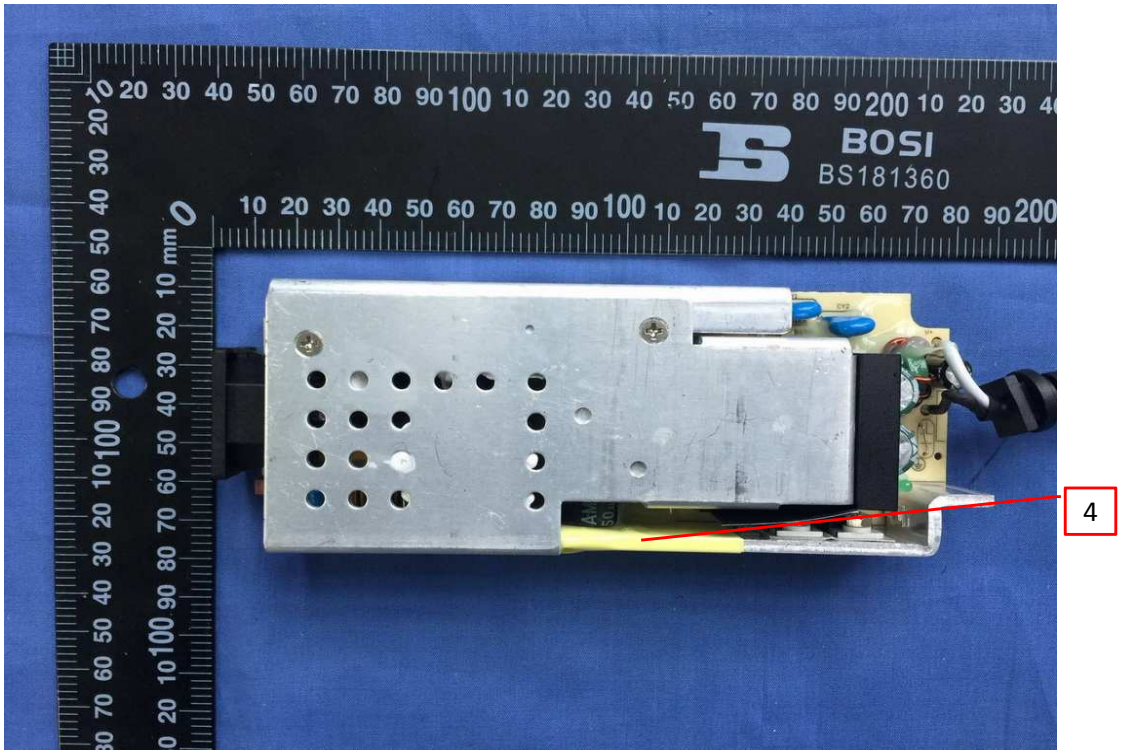
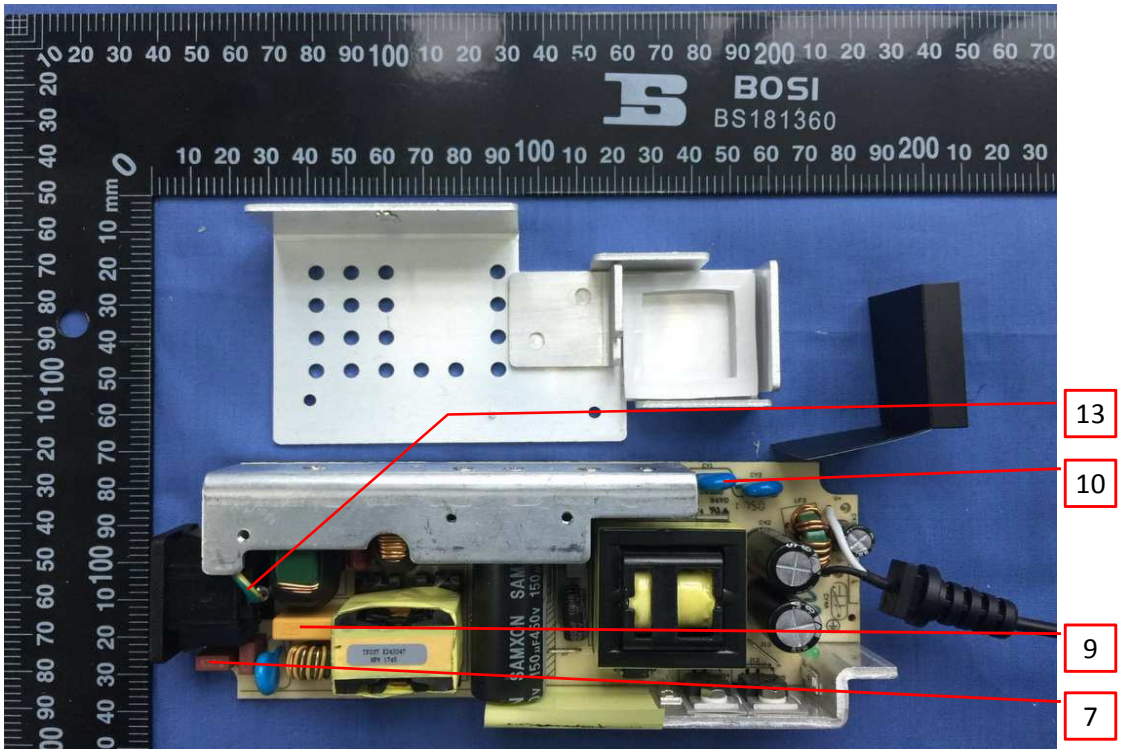


Photo 8 - PCB Top Side (Class I)



3.0 Product Photographs

Photo 9 - PCB Top Side (Class II)

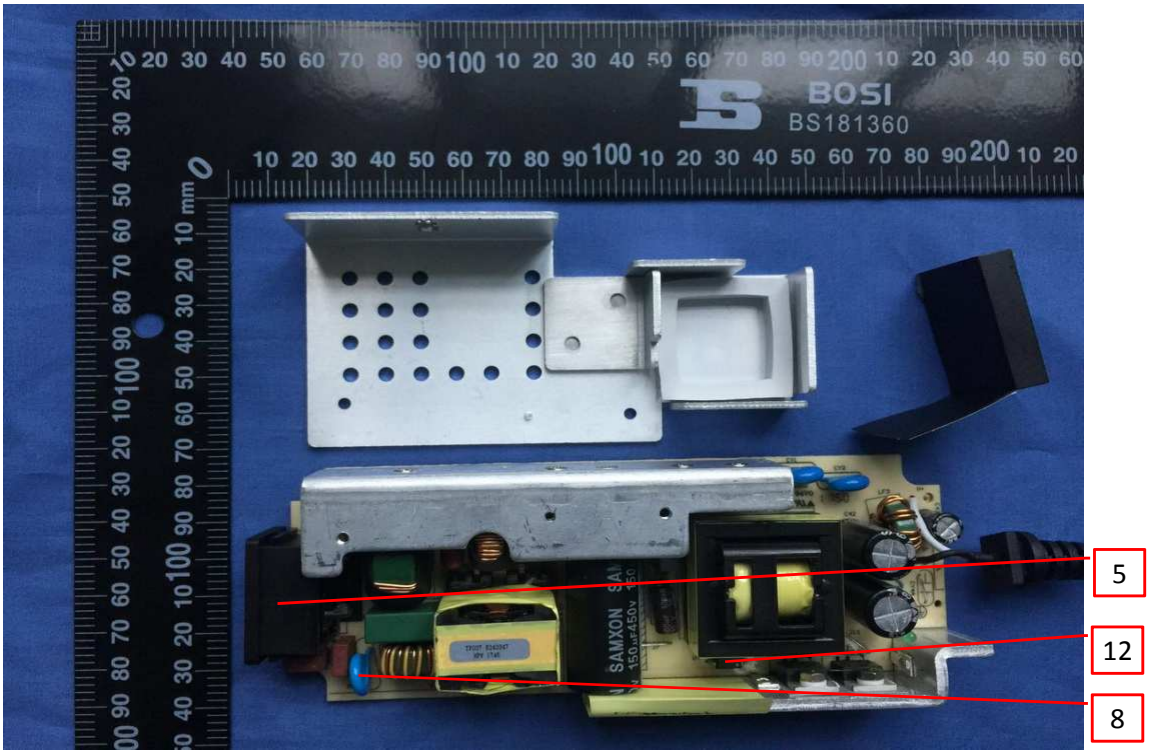
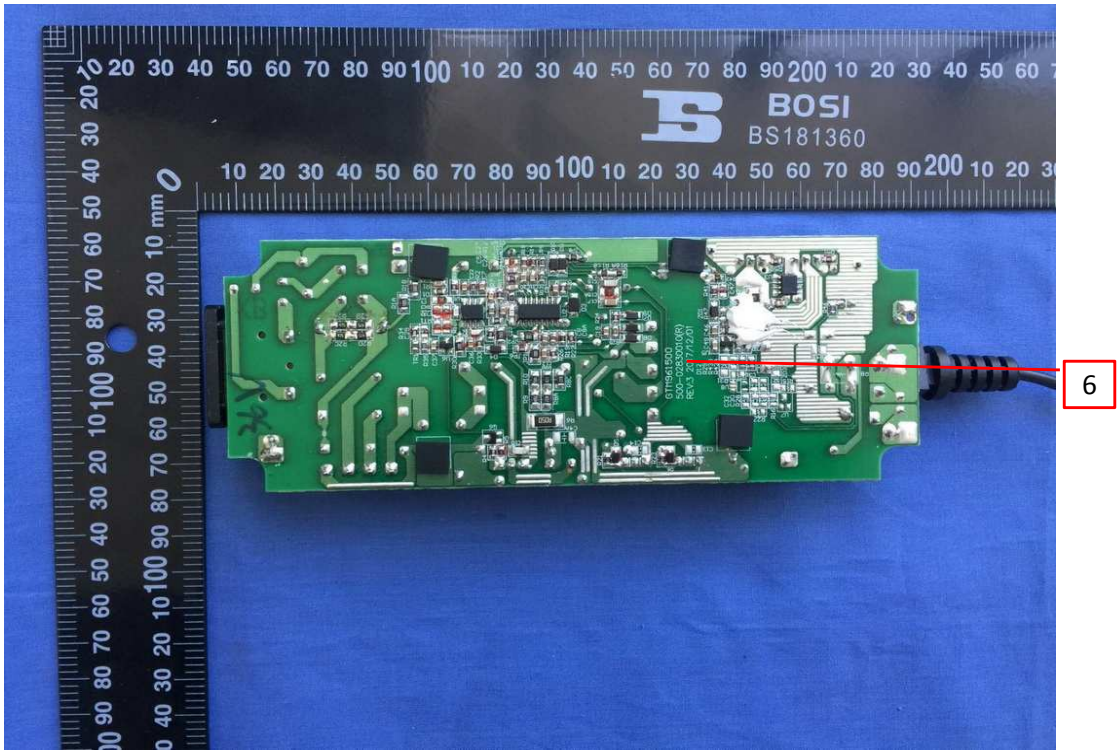


Photo 10 - PCB Bottom Side (12.0-36.0V model, Class I)



3.0 Product Photographs

Photo 11 - PCB Bottom Side (36.1-54V model, Class I)

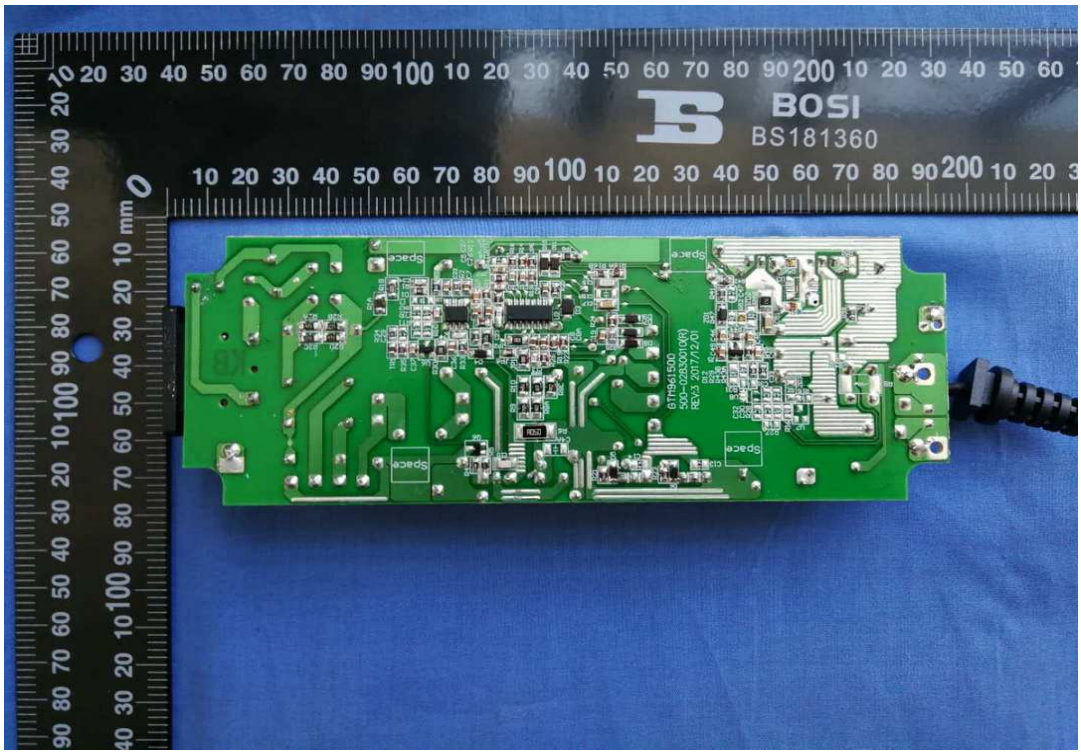
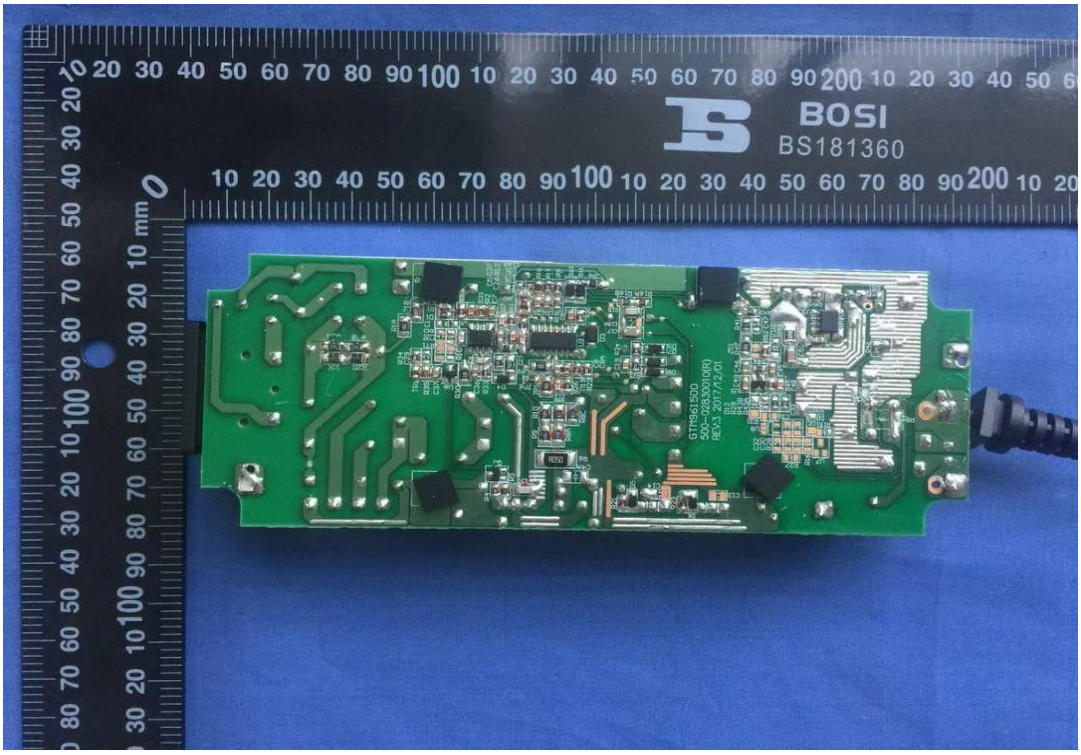


Photo 12- PCB Bottom Side (12.0-36.0V model, Class II)



3.0 Product Photographs

Photo 13 - PCB Bottom Side(36.1-54V model, Class II)

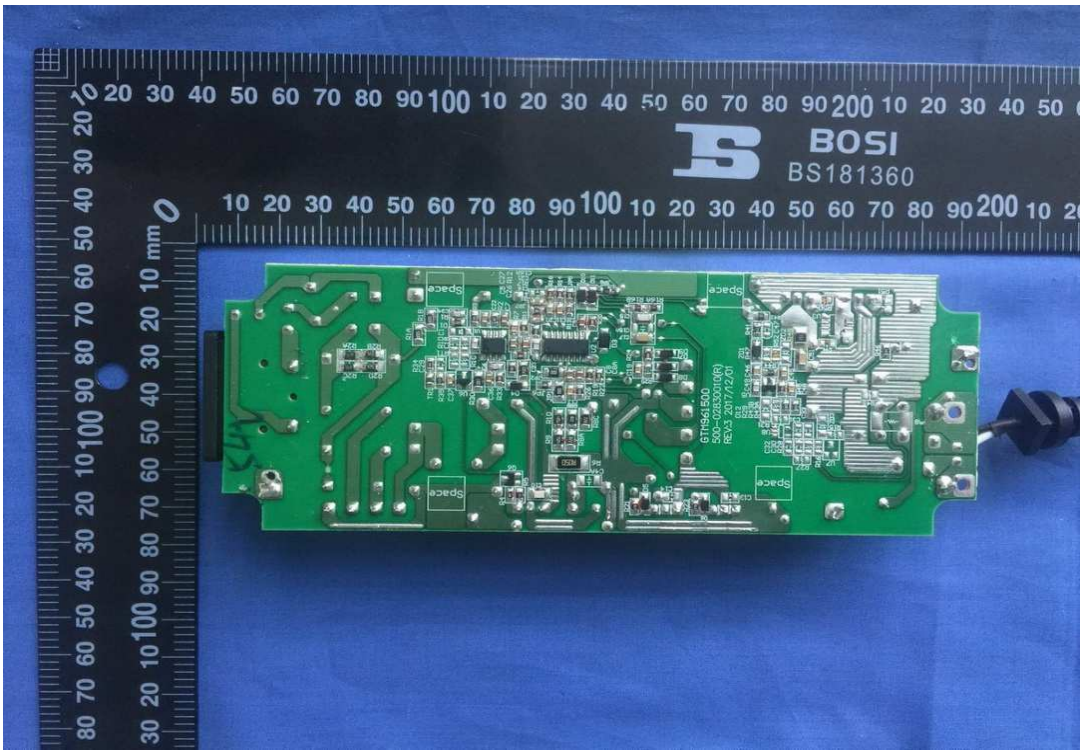
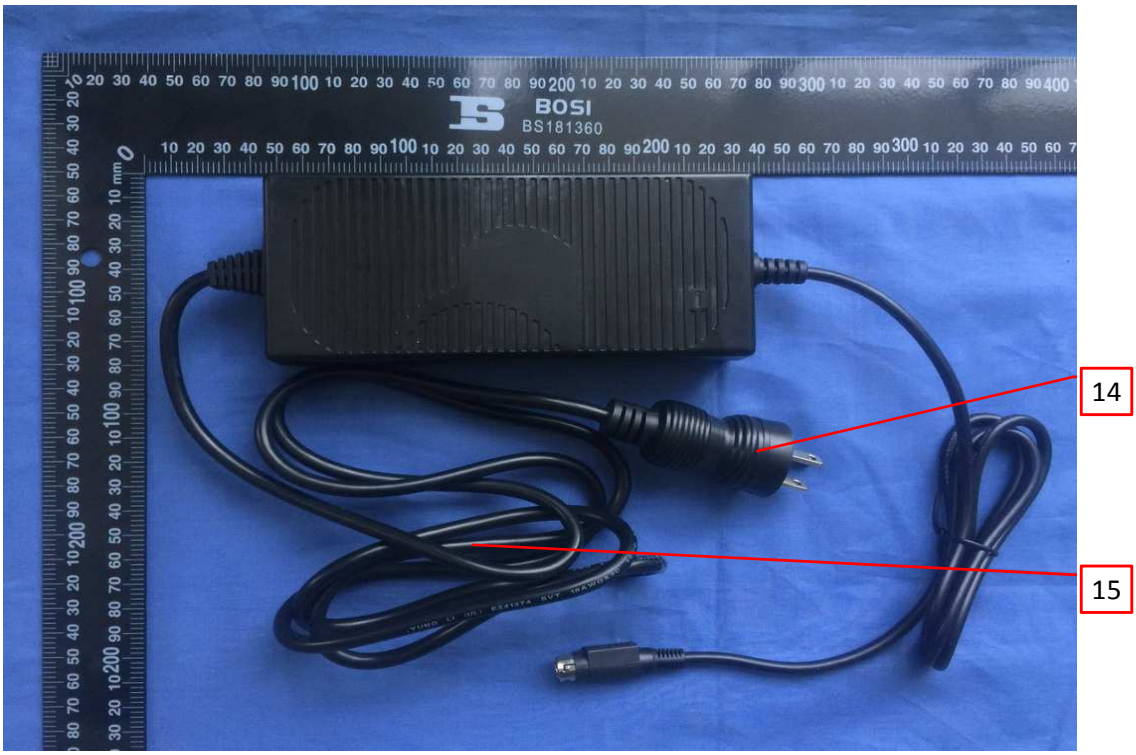


Photo 14 - Cord Connected Model with Plug



3.0 Product Photographs

Photo 15 - Transformer

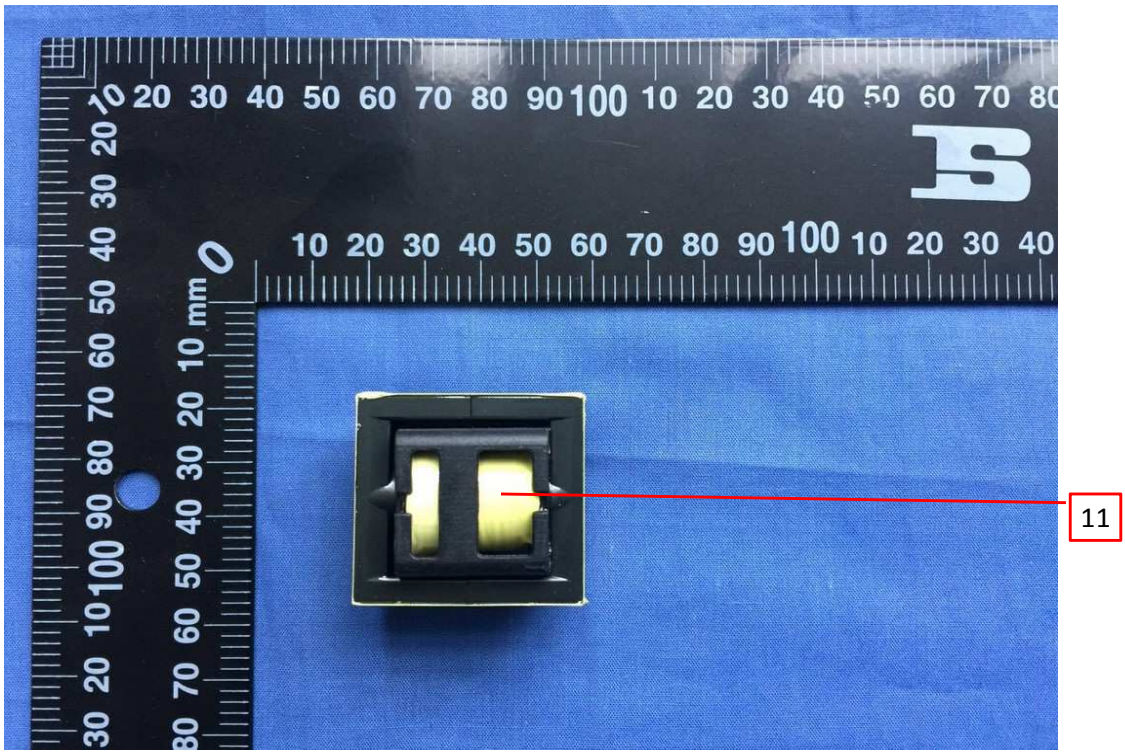
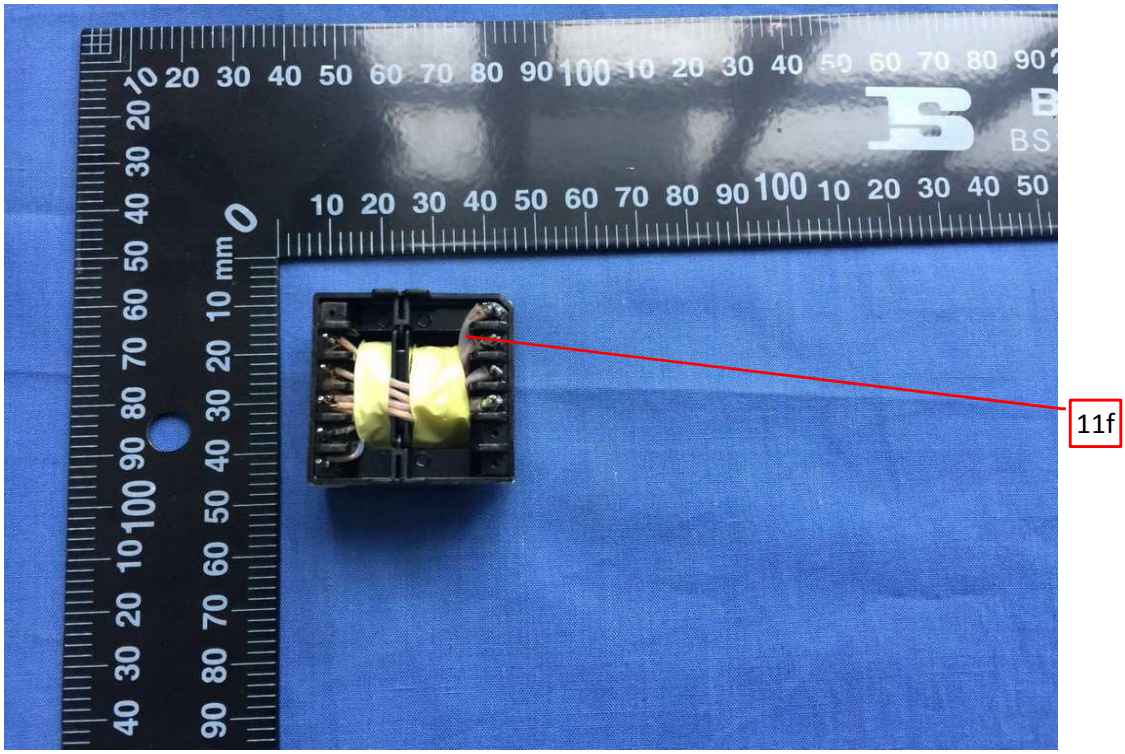


Photo 16 - Transformer



3.0 Product Photographs

Photo 17 - Transformer

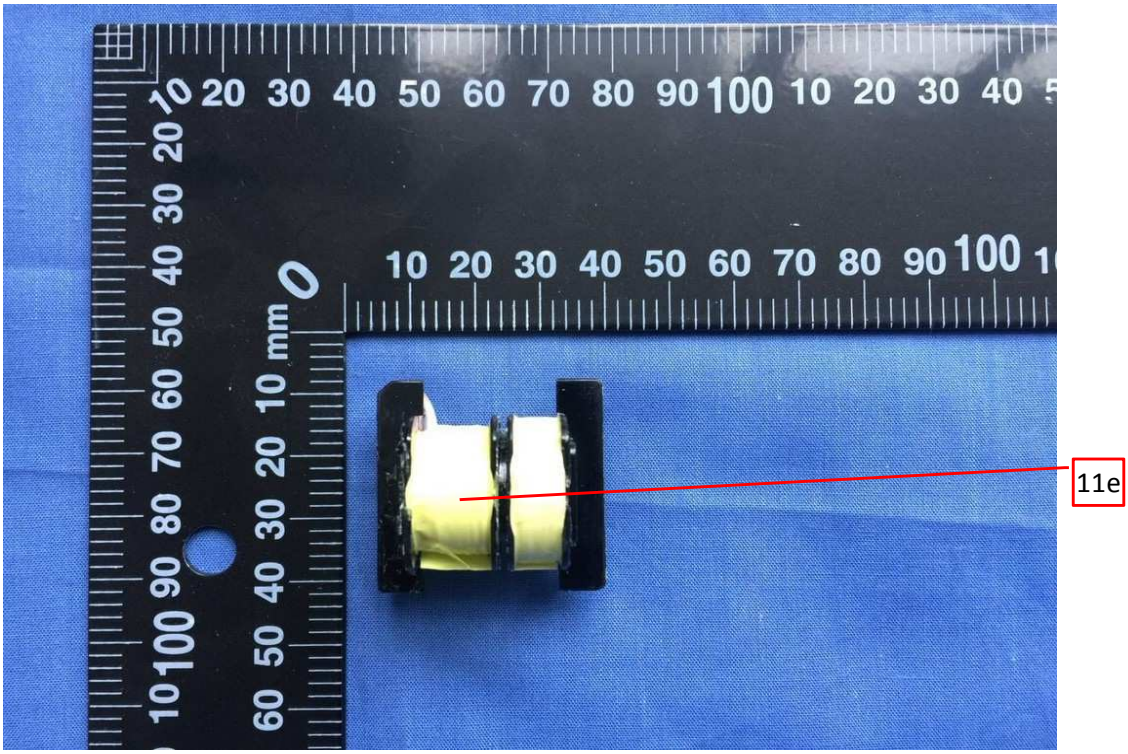
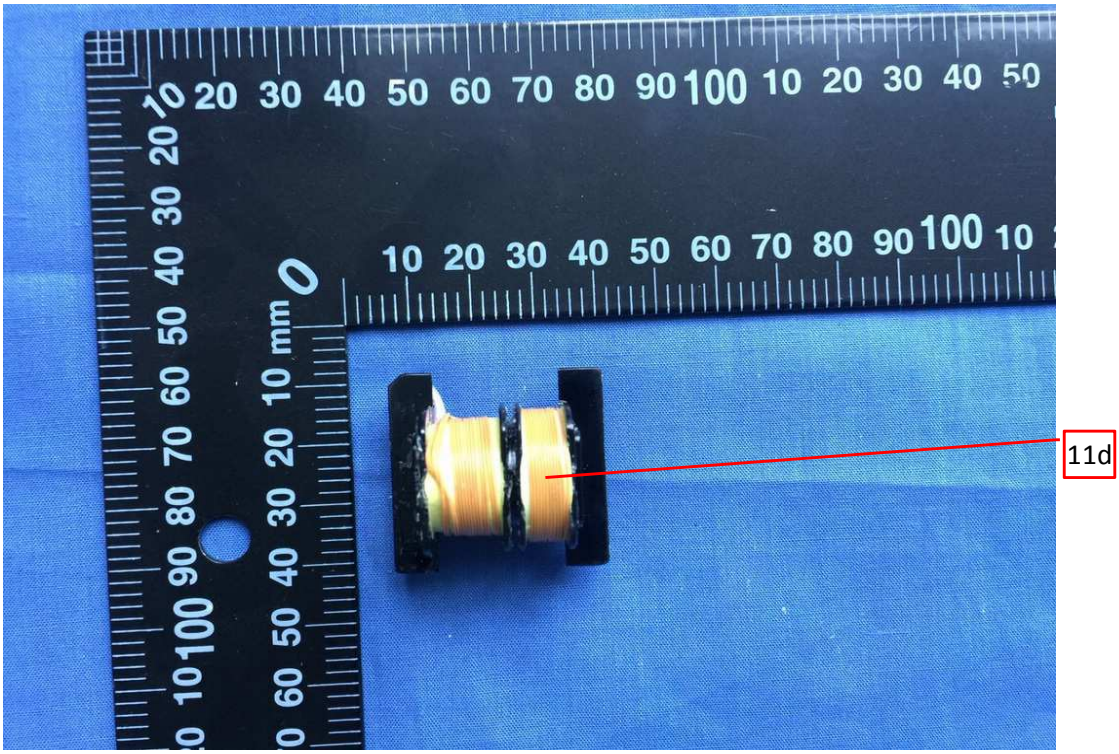


Photo 18 - Transformer



3.0 Product Photographs

Photo 19 - Transformer

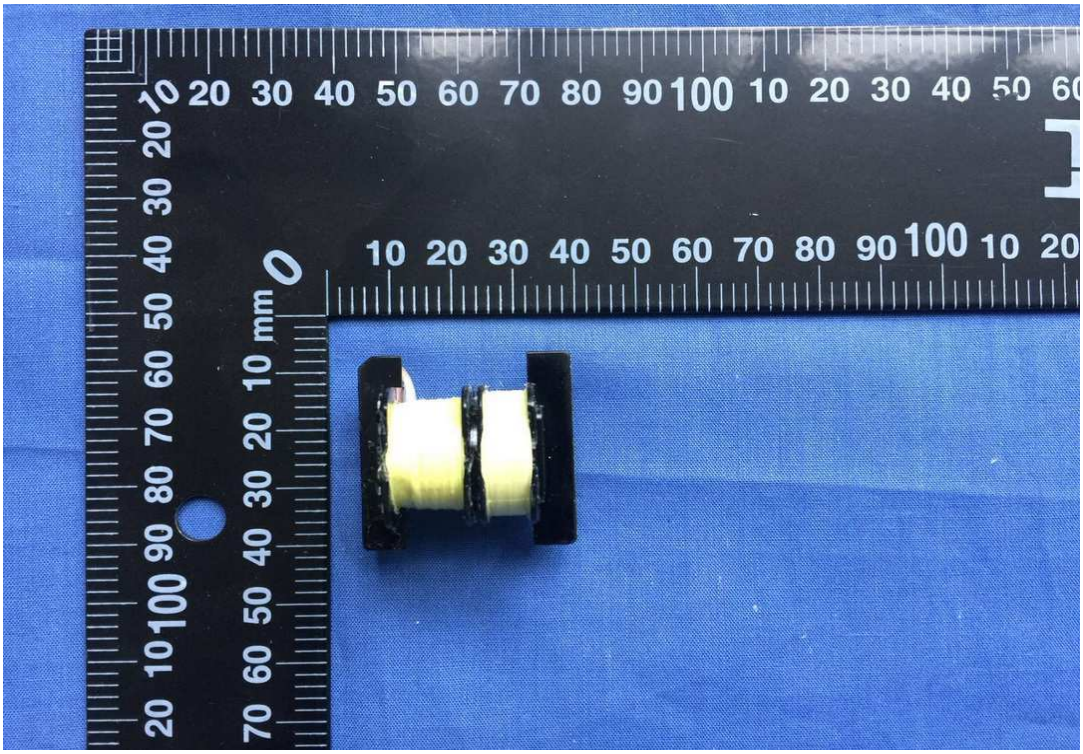
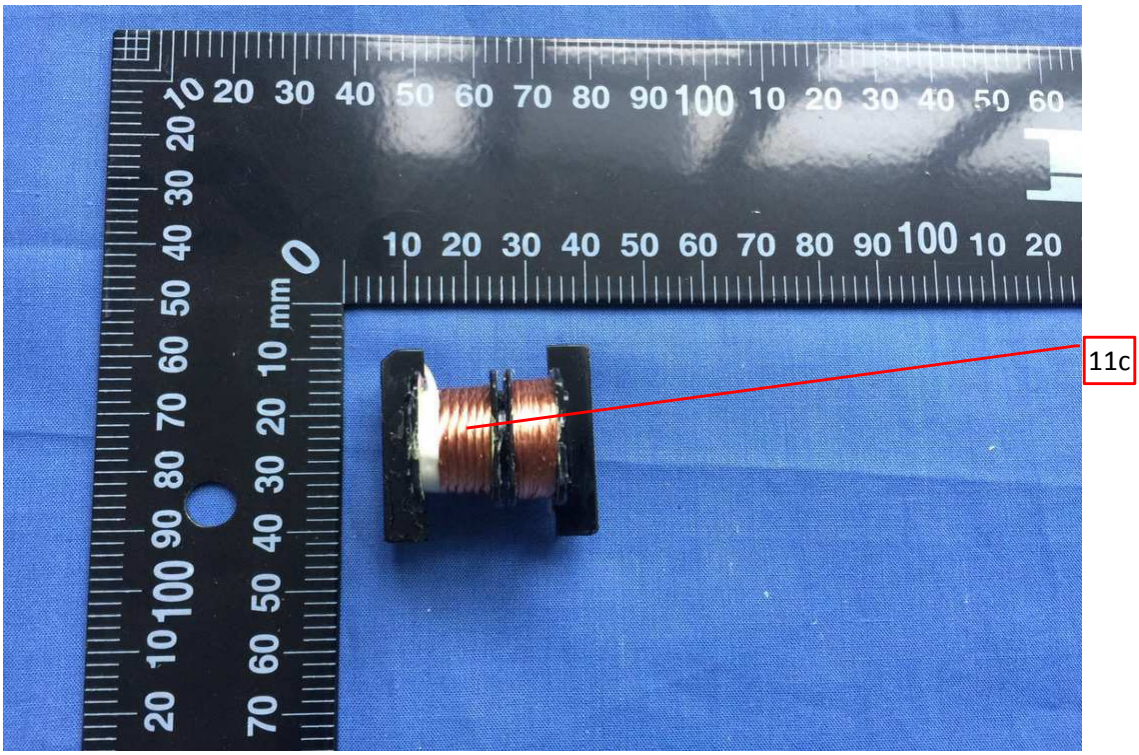


Photo 20 - Transformer



3.0 Product Photographs

Photo 21 - Transformer

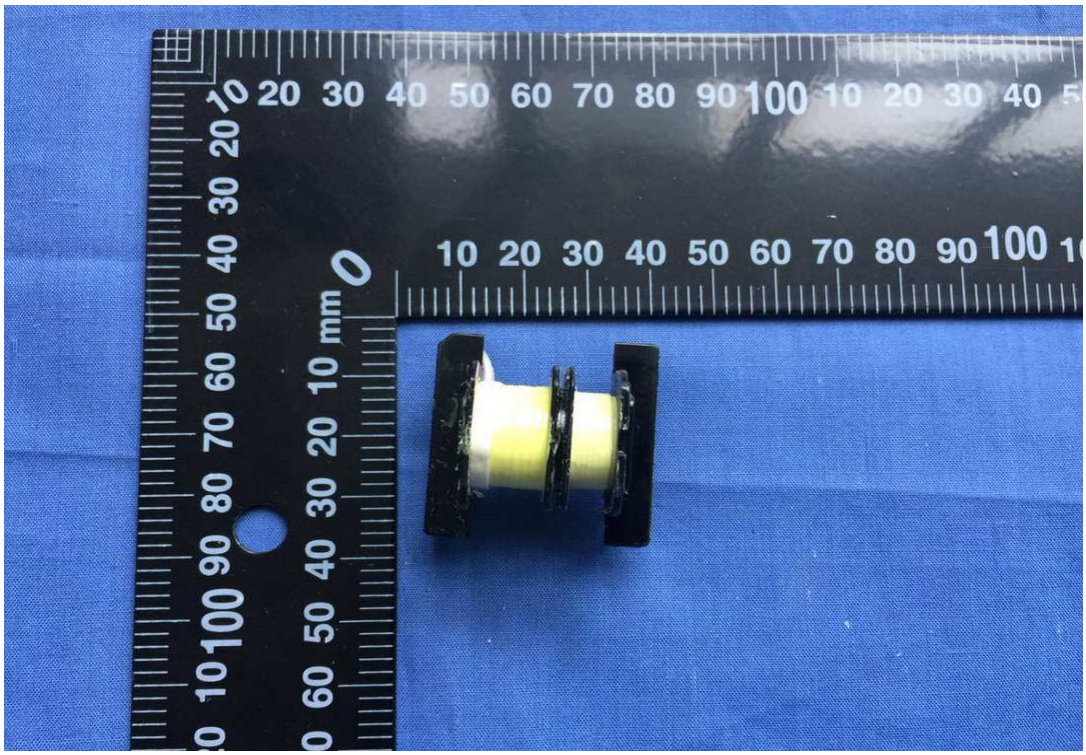
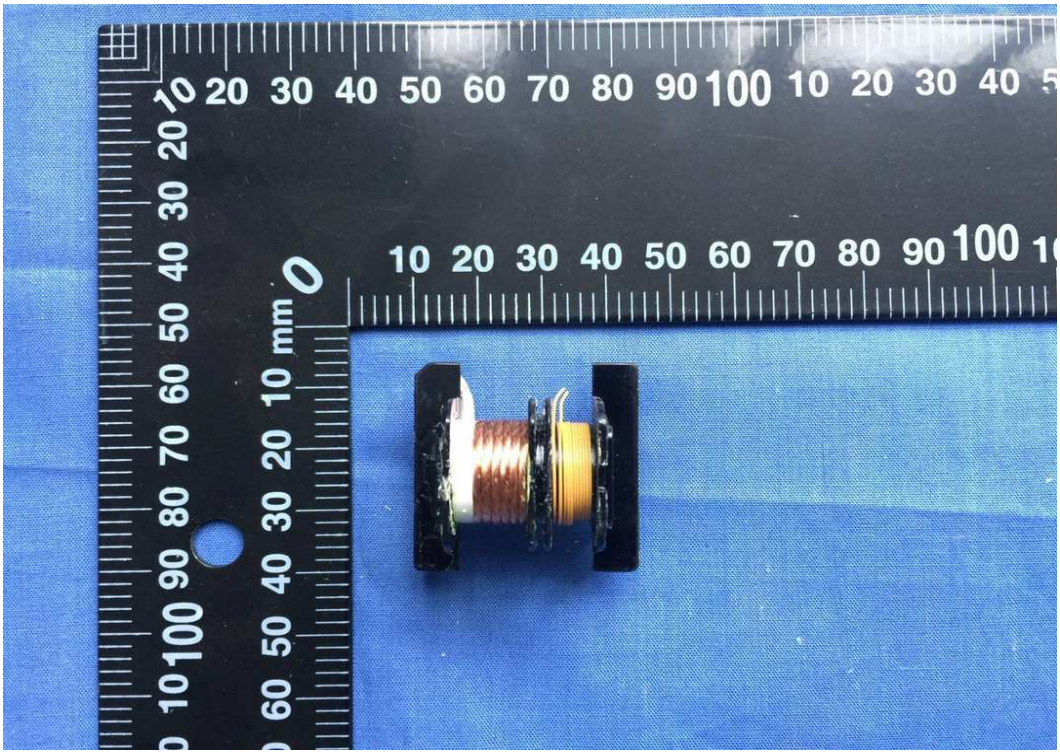
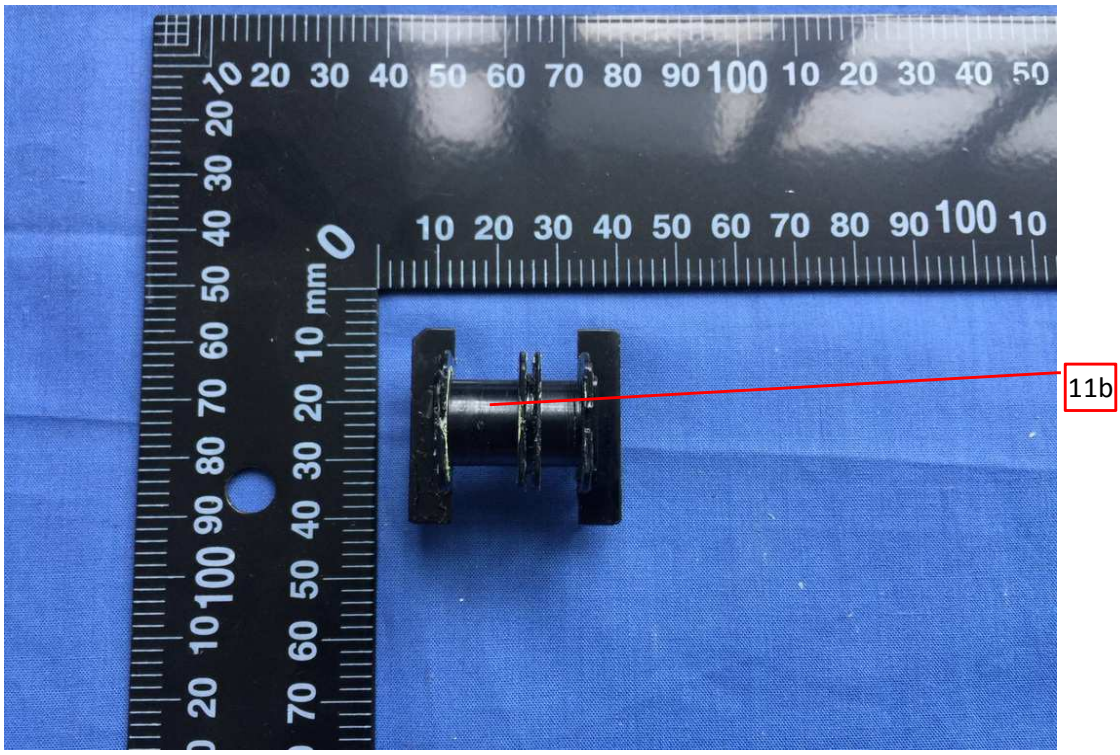


Photo 22 - Transformer



3.0 Product Photographs

Photo 23 - Transformer



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	1	Enclosure	SABIC INNOVATIVE PLASTICS	SE1X	PPE+PS, Min.V-1, Min. 2.0mm thickness, 105°C	cURus
				SE1	PPE+PS, Min.V-1, Min. 2.0mm thickness, 105°C	cURus
				HF500R	PC, Min.V-0, Min. 2.0mm thickness, 125°C	cURus
				CX7211	PC/ABS, Min.V-0, Min. 2.0mm thickness, 90°C	cURus
				C2950	PC/ABS, Min.V-1, Min. 2.0mm thickness, 105°C	cURus
				945	PC, Min.V-1, Min. 2.0mm thickness, 120°C	cURus
			SABIC JAPAN L L C	SE1X	PPE+PS, Min.V-1, Min. 2.0mm thickness, 105°C	cURus
				SE1	PPE+PS, Min.V-1, Min. 2.0mm thickness, 105°C	cURus
				HF500R	PC, Min.V-0, Min. 2.0mm thickness, 125°C	cURus
				CX7211	PC/ABS, Min.V-0, Min. 2.0mm thickness, 90°C	cURus
				C2950	PC/ABS, Min.V-1, Min. 2.0mm thickness, 105°C	cURus
				945	PC, Min.V-1, Min. 2.0mm thickness, 120°C	cURus
			COVESTRO DEUTSCHLAND AG [PC RESINS]	6485+	PC, Min.V-0, Min. 2.0mm thickness, 115°C	cURus
			TEIJIN CHEMICALS LTD	LN-1250P	PC, Min.V-0, Min. 2.0mm thickness, 115°C	cURus
				LN-1250G	PC, Min.V-0, Min. 2.0mm thickness, 115°C	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
2	2	Output cord	SUZHOU DIOUDE ELECTRONICS CO LTD	1185	14 to 22 AWG, 2 to 6 wires, 300V, Min. 80°C, VW-1 supplied with a stripped and tinned connection, or any style DC output connector.	cURus
				2464		cURus
				SPT-1		cURus
				SVT		cURus
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1185	14 to 22 AWG, 2 to 6 wires, 300V, Min. 80°C, VW-1 supplied with a stripped and tinned connection, or any style DC output connector.	cURus
				2464		cURus
				SPT-1		cURus
				SVT		cURus
			SUZHOU YEMAO ELECTRONIC CO LTD	1185	14 to 22 AWG, 2 to 6 wires, 300V, Min. 80°C, VW-1 supplied with a stripped and tinned connection, or any style DC output connector.	cURus
				2464		cURus
			GLOBTEK INC	1185	14 to 22 AWG, 2 to 6 wires, 300V, Min. 80°C, VW-1 supplied with a stripped and tinned connection, or any style DC output connector.	cURus
				2464		cURus
				SPT-1		cURus
				SVT		cURus
			Various	Various	14 to 22 AWG, 2 to 6 wires, 300V, 100°C, VW-1 supplied with a stripped and tinned connection, or any style DC output connector. Performance parameter shall be equal 1185,2464,SPT-1 or SPT-2.	cURus
5	3	Mylar Insulating sheet	TORAY INDUSTRIES INC	Lumirror H10	VTM-2, min. 0.4 mm thickness, 105°C	cURus
			SKC CO LTD	SH71S	VTM-2, min. 0.4 mm thickness, 105°C	cURus
			FORMEX,DIV OF IL TOOL WORKS INC, FRMRLY FASTEX, DIV OF IL TOOL WORKS INC	FORMEX GK series	V-0, min. 0.4 mm thickness, 115°C	cURus
			SABIC INNOVATIVE PLASTICS US L L C	FR60 series	V-0, min. 0.4 mm thickness, 130°C	cURus
				FR63 series		cURus
				FR65 series		cURus
				FR7 series		cURus
				FR700 series		cURus
			CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP WT-10 series	VTM-0, min. 0.4 mm thickness, 110°C	cURus
			SICHUAN LONGHUA FILM CO LTD	PP-(i)(j)	V-0, min. 0.4 mm thickness, 105°C	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
7	4	Insulating tape wrapping around the heatsink (Optional)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C	cURus
				1350T-1		cURus
			BONDTEC PACIFIC CO LTD	370S	130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C	cURus
				CT		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
9	5	Appliance Inlet (CN1)	Zhejiang LECI Electronics Co., Ltd.	DB-6	250 Vac, 2.5A, Standard sheet: C6	cURus
			Tecx-Unions Technology Corp	TU-333	250 Vac, 2.5A, Standard sheet: C6	cURus
			Rich Bay Co Ltd	R-30790	250 Vac, 2.5A, Standard sheet: C6	cURus
			Sun Fair Electric Wire & Cable (HK) Co Ltd	S-02	250 Vac, 2.5A, Standard sheet: C6	cURus
			DLK Electronics Technology Co Ltd	CDJ-2	250 Vac, 2.5A, Standard sheet: C6	cURus
			Inalways Corp.	0724	250 Vac, 2.5A, Standard sheet: C6	cURus
			Zhe Jiang Bei Er Jia Electronic Co Ltd	ST-A04-002	250 Vac, 2.5A, Standard sheet: C6	cURus
			Rong Feng Industrial Co., Ltd.	RF-190	250 Vac, 2.5A, Standard sheet: C6	cURus
			Zhejiang LECI Electronics Co., Ltd.	DB-14	250 Vac, 10A, Standard sheet: C14	cURus
			Tecx-Unions Technology Corp	TU-301-S	250 Vac, 10A, Standard sheet: C14	cURus
			Tecx-Unions Technology Corp	TU-301-SP	250 Vac, 10A, Standard sheet: C14	cURus
			Rich Bay Co Ltd	R-301SN	250 Vac, 10A, Standard sheet: C14	cURus
			Sun Fair Electric Wire & Cable (HK) Co Ltd	SS-120	250 Vac, 10A, Standard sheet: C14	cURus
			Inalways Corp.	0711	250 Vac, 10A, Standard sheet: C14	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
			Zhe Jiang Bei Er Jia Electronic Co Ltd	ST-A01-003J	250 Vac, 10A, Standard sheet: C14	cURus
			Rong Feng Industrial Co., Ltd.	SS-120	250 Vac, 10A, Standard sheet: C14	cURus
			Zhejiang LECI Electronics	DB-8	250 Vac, 2.5A, Standard sheet: C8	cURus
			Delikang Electronics Technology Co Ltd	CDJ-8	250 Vac, 2.5A, Standard sheet: C8	cURus
			Rich Bay Co Ltd	R-201SN90	250 Vac, 2.5A, Standard sheet: C8	cURus
			Sun Fair Electric Wire & Cable (HK) Co Ltd	S-01	250 Vac, 2.5A, Standard sheet: C8	cURus
			Tecx-unions Technology Corp	SO-222 series	250 Vac, 2.5A, Standard sheet: C8	cURus
			Inalways Corp.	0721	250 Vac, 2.5A, Standard sheet: C8	cURus
			Zhe Jiang Bei Er Jia Electronic Co Ltd	ST-A03-005	250 Vac, 2.5A, Standard sheet: C8	cURus
			Rong Feng Industrial Co., Ltd	RF-180	250 Vac, 2.5A, Standard sheet: C8	cURus
			Rich Bay Co Ltd	R-301SN	250Vac,10A, Standard sheet: C18	cURus
			Rong Feng Industrial Co., Ltd	SS-120A	250Vac,10A, Standard sheet: C18	cURus
10	6	PCB	Various	Various	Min. 1.6 mm thickness, min. V-0, 130°C, Fully comply with UL 796	cURus
8	7	Fuse (F1, F2) (F2 is optional)	CONQUER ELECTRONICS CO LTD	MST series	T4AL, 250V	cURus
			EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	T4AL, 250V	cURus
			Zhongshan Lanbao Electrical Appliances	RTI-10	T4AL, 250V	cURus
			BEL FUSE INC	RST series	T4AL, 250V	cURus
			COOPER BUSSMANN LLC	SS-5	T4AL, 250V	cURus
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	T4AL, 250V	cURus
			SHENZHEN LANSON ELECTRONICS CO LTD	SMT	T4AL, 250V	cURus
			CONQUER ELECTRONICS CO LTD	MET series	T4AL, 250V	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity[3]
9	8	Varistor (Optional)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10471K,	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
			THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR14471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
			CENTRA SCIENCE CORP	CNR-10D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				CNR-14D471K		cURus
			SUCCESS ELECTRONICS CO LTD	SVR10D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				SVR14D471K		cURus
			WALSIN TECHNOLOGY CORP	VZ10D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				VZ14D471K		cURus
			LIEN SHUN ELECTRONICS CO LTD	10D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				14D471K		cURus
			CERAMATE TECHNICAL CO LTD	GNR10D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				GNR14D471K		cURus
			BRIGHTKING (SHENZHEN) CO LTD	14D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				10D471K		cURus
			JOYIN CO LTD	10N471K	Max. Continuous voltage: min 300Vac(rms), 105°C	cURus
				14N471K		cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity[3]
8	9	X capacitor	CHENG TUNG INDUSTRIAL CO LTD	CTX	Max. 0.47µF, Min. 300V, -40°C ~+105°C, X1 or X2	cURus
			TENTA ELECTRIC INDUSTRIAL CO LTD	MEX	Max. 0.47µF, Min. 300V, -40°C ~+100°C, X1 or X2	cURus
			JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Max. 0.47µF, Min. 300V, -40°C ~+110°C, X1 or X2	cURus
			ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Max. 0.47µF, Min. 250V, -40°C ~+110°C, X2	cURus
			XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MKP	Max. 0.47µF, Min. 300V, -40°C ~+110°C, X1 or X2	cURus
				MPX		cURus
			CARLI ELECTRONICS CO LTD	MPX	Max. 0.47µF, Min. 250V, -40°C ~+100°C, X2	cURus
			DAIN ELECTRONICS CO LTD	MEX	Max. 0.47µF, Min. 250V, -40°C ~+110°C, X1 or X2	cURus
				MPX		cURus
				NPX		cURus
			YUON YU ELECTRONICS CO LTD	MPX	Max. 0.47µF, Min. 250V, -40°C ~+100°C, X2	cURus
			SINHUA ELECTRONICS (HUZHOU) CO LTD	MPX	Max. 0.47µF, Min. 250V, -40°C ~+110°C, X1 or X2	cURus
			JIANGSU XINGHUA HUAYU ELECTRONICS CO LTD	MPX	Max. 0.47µF, Min. 250V, -40°C ~+100°C, X2	cURus
			SHENZHEN JINGHAO CAPACITOR CO LTD	CBB62B	Max. 0.47µF, Min. 250V, -40°C ~+110°C, X2	cURus

4.0 Critical Components

Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity[3]
8	10	Y capacitor (Optional)	TDK CORPORATION	CD	Y1, AC250V, max. 2200pF (for class II models), max. 1500pF (for class I models), -25~+125°C	cURus
			SUCCESS ELECTRONICS CO LTD	SE	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
				SB		cURus
			MURATA MFG CO LTD	KX	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			WALSIN TECHNOLOGY CORP	AH series	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			HAOHUA ELECTRONIC CO	CT7	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YO-series	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			JUHONG ELE COMPANY	JB- series	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			JYA-NAY CO LTD	JN	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			JYH CHUNG ELECTRONICS CO LTD	JD	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			WELSON INDUSTRIAL CO LTD	WD	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			WALSIN TECHNOLOGY CORP	AC	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			TDK CORPORATION	CS	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			MURATA MFG CO LTD	KY Series	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus
			SUCCESS ELECTRONICS CO LTD	SF	Y1, AC250V, max. 2200pF (for class I models), max. 1500pF (for class II models), -25~+125°C	cURus

4.0 Critical Components

Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity[3]
			GlobTek INC	TF081	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 12.0V-14.9VDC;	NR
				TF082	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 13.4V-14.9VDC;	NR
				TF083	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 15.0V-18.9VDC;	NR
				TF084	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 17.0V-18.9VDC;	NR
				TF085	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 19.0V-23.9VDC;	NR
				TF086	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 21.5V-23.9VDC;	NR
				TF087	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 24.0V-31.9VDC;	NR
				TF088	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 27.6V-31.9VDC;	NR
				TF089	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 32.0V-41.9VDC;	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]
				TF090	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 36.5V-41.9VDC;	NR
				TF091	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 42.0V-47.9VDC;	NR
				TF092	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 48.0V-54.0VDC;	NR
				TF081	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 12.0V-14.9VDC;	NR
				TF082	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 13.4V-14.9VDC;	NR
				TF083	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 15.0V-18.9VDC;	NR
				TF084	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 17.0V-18.9VDC;	NR
				TF085	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 19.0V-23.9VDC;	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]
15	11	Transformer (T1)	SHAN DONG BOAM ELECTRIC CO LTD	TF086	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 21.5V-23.9VDC;	NR
				TF087	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 24.0V-31.9VDC;	NR
				TF088	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 27.6V-31.9VDC;	NR
				TF089	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 32.0V-41.9VDC;	NR
				TF090	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 36.5V-41.9VDC;	NR
				TF091	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 42.0V-47.9VDC;	NR
				TF092	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 48.0V-54.0VDC;	NR
				TF081	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 12.0V-14.9VDC;	NR
				TF082	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 13.4V-14.9VDC;	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]
			WUXI HAOPUWEI ELECTRONICS CO LTD	TF083	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 15.0V-18.9VDC;	NR
				TF084	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 17.0V-18.9VDC;	NR
				TF085	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 19.0V-23.9VDC;	NR
				TF086	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 21.5V-23.9VDC;	NR
				TF087	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 24.0V-31.9VDC;	NR
				TF088	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 27.6V-31.9VDC;	NR
				TF089	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 32.0V-41.9VDC;	NR
				TF090	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 36.5V-41.9VDC;	NR
				TF091	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 42.0V-47.9VDC;	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]
				TF092	Class B, with insulation system and critical component shown as below items (11a - 11f), TF081 for model with input voltage range: 100-240VAC, output voltage range: 48.0V-54.0VDC;	NR
15	11a	Insulation system (Not shown)	GLOBTEK INC	GTX-130-TM	Class B	cURus
			SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01	Class B	cURus
			SHAN DONG BOAM ELECTRIC CO LTD	B1	Class B	cURus
			WUXI HAOPUWEI ELECTRONICS CO LTD	GTX-130-TM	Class B	cURus
			WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130	Class B	cURus
23	11b	Bobbin	CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150°C, thickness 0.45 mm min.	cURus
				T375HF	V-0, 150°C, thickness 0.45 mm min.	cURus
				4130	V-0, 140°C, thickness 0.74 mm min.	cURus
			SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0.45 mm min.	cURus
			HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
20	11c	Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	cURus
			BOLUO COUNTY XIN LONG ELECTRICIAN DATA CO LTD	2UEW-F	MW 79-C, 155°C	cURus
			PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C	cURus
			JUNG SHING WIRE CO LTD	UEW-4	MW75-C, 130°C	cURus
			JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C	cURus
			JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	cURus
			CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C	cURus
			WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	cURus
			JIANGSU DARTONG M & E CO LTD	UEW	MW75-C, 130°C	cURus
			SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	cURus
			ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW79#, 130°C	cURus
			NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW 75-C, 130°C	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity[3]
18	11d	Triple-insulated wire	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Reinforced Insulation, rated 130°C (Class B), 1.41 kVolts peak for Information Technology;	cURus
			COSMOLINK CO LTD	TIW-M Serie(s)	Reinforced Insulation, rated 130°C (Class B), 1.41 kVolts peak for Information Technology;	cURus
			FURUKAWA ELECTRIC CO LTD	TEX-E	Reinforced Insulation, rated 130°C (Class B), 1.41 kVolts peak for Information Technology;	cURus
			TOTOKU ELECTRIC CO LTD	TIW-2	Reinforced Insulation, rated 130°C (Class B), 1.40 kVolts peak for Information Technology;	cURus
			E&B TECHNOLOGY CO LTD	E&B-XXXB	Reinforced Insulation, rated 130°C (Class B), 1.40 kVolts peak for Information Technology;	cURus
				E&B-XXXB-1		cURus
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW	Reinforced Insulation, rated 130°C (Class B), 1.41 kVolts peak for Information Technology;	cURus
			SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	Reinforced Insulation, rated 130°C (Class B), 1.40 kVolts peak for Information Technology;	cURus
17	11e	Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C	cURus
				1350T-1	130°C	cURus
				44	130°C	cURus
			BONDTEC PACIFIC CO LTD	370S	130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	WF	130°C	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

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]
16	11f	PTFE tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT	300V, 200°C	cURus
			GREAT HOLDING INDUSTRIAL CO LTD	TFS	600V, 200°C	cURus
			SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C	cURus
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T	300V, 200°C	cURus
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-S	600V, 200°C	cURus
9	12	Photo Coupler	EVERLIGHT ELECTRONICS CO LTD	EL817	Double protection optical isolators, providing 5000 vac isolation	cURus
			COSMO ELECTRONICS CORP	K1010	Optical isolators, double protection type, providing 5000 V ac isolation	cURus
				KP1010		cURus
			Lite-On Technology Corporation	LTV-817	Double protection optical isolators having an isolation voltage of 5300 Vrms	cURus
			FAIRCHILD SEMICONDUCTOR CORP	H11A817B	Double Protection Optical isolators, providing 5000 vac isolation	cURus
				FOD817B		cURus
			SHARP CORP ELECTRONIC COMPONENTS AND DEVICES BU	PC817	Double protection optical isolated switches, providing 5000 Vac isolation	cURus
			BRIGHT LED ELECTRONICS CORP	BPC-817 A/B/C/D/L	Double protection optical isolators 5000 Vac isolation voltage	cURus
				BPC-817 M		cURus
				BPC-817 S		cURus
			TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION	TLP781F	Double protection optical isolators having an isolation voltage of 5000 Vrms	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
8	13	Earthing wire (Optional)	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			SHENG YU ENTERPRISE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			SUZHON YEMAO ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
			Various	1015	Min. 20 AWG, Min. 300V, Min. 80°C. For class I model series use only	cURus
				1007		cURus
				1185		cURus
14	14	Plug (Optional)	YUNG LI CO LTD	YP-12	Min.125V, Min.10A, for followed by - TP models use only.	cULus
				YP-18		cULus
			JHI WEI ELECTRIC WIRE & CABLE CO LTD	JW-02	Min.125V, Min.10A, for followed by - TP models use only.	cULus
				JW-03		cULus
			SELF-MAN INDUSTRIAL CO	SM-045	Min.125V, Min.12A, for followed by - TP models use only.	cULus

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	15	Power Supply Cord (Optional)	YUNG LI CO LTD	SVT	Min.18AWG, 105°C, VW-1, with or without Hospital Grade USA Plug or Regular Use USA Plug, NEMA 5-15P or 1-15P, for followed by -TP models use only.	cULus
			JHI WEI ELECTRIC WIRE & CABLE CO LTD	SVT	Min.18AWG, 105°C, VW-1, with or without Hospital Grade USA Plug or Regular Use USA Plug, NEMA 5-15P or 1-15P, for followed by -TP models use only.	cULus
			I SHENG ELECTRONICS (KUNSHAN) CO LTD	SVT	Min.18AWG, 105°C, VW-1, with or without Hospital Grade USA Plug or Regular Use USA Plug, NEMA 5-15P or 1-15P, for followed by -TP models use only.	cULus
2	16	Adhesive-Type Label (Not shown)	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
				FJ07		cURus
			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;	cURus
			YUEN CHANG SPECIAL PRINTING (SHENZHEN) CO LTD	JL-08	Temperature range: 0~+80°C;	cURus
			GlobTek	Various	Permanently secured Engraving or Silkscreen or Laser printing	NR
			Various	Various	Temperature range: min. -40 ~+80°C; Certified according UL 969.	cURus

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

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

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

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

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

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

1. Spacing - In primary circuits, minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
   Limits between different polarity of Line and Neutral before fuse: Cl = 3.6mm; Cr = 3.6mm.
   Limits between different polarity of fuse: Cl = 3.0mm; Cr = 3.0mm.
   Limits between primary parts and secondary parts: Cl = 6.9mm; Cr = 6.9mm.
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 grouding means as they are reinforced insulated.
6. Polarized Connection - For adapter models followed by -TP series are 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 pointswhere 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 22AWG, with a minimum rating of 300V, 80°C.
8. PCB layout - Refer to Illustration No. 3 for PCB layout requiring verification during Field Representative Inspection Audits.
9. Schematics - Refer to Illustration No. 2 or schematics requiring verification during Field Representative Inspection Audits
10. Transformer - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 11) was constructed as indicated in Illustrations 4a to 4d. These records must be available at the factory for inspection on every received shipment.
11. Markings - The product is marked on a labeling system as described in item No. 16 of Section 4.0 as follows: brand name, model number, electrical ratings, manufacturer. Refer to Illustration No. 5 for details.
12. Cautionary Markings - Cautionary marking is not required.
13. Safety Instructions - Specification for installation and use of this product are provided by the manufacturer. Refer to Illustration No. 6a and 6b for details.

7.0 Illustrations

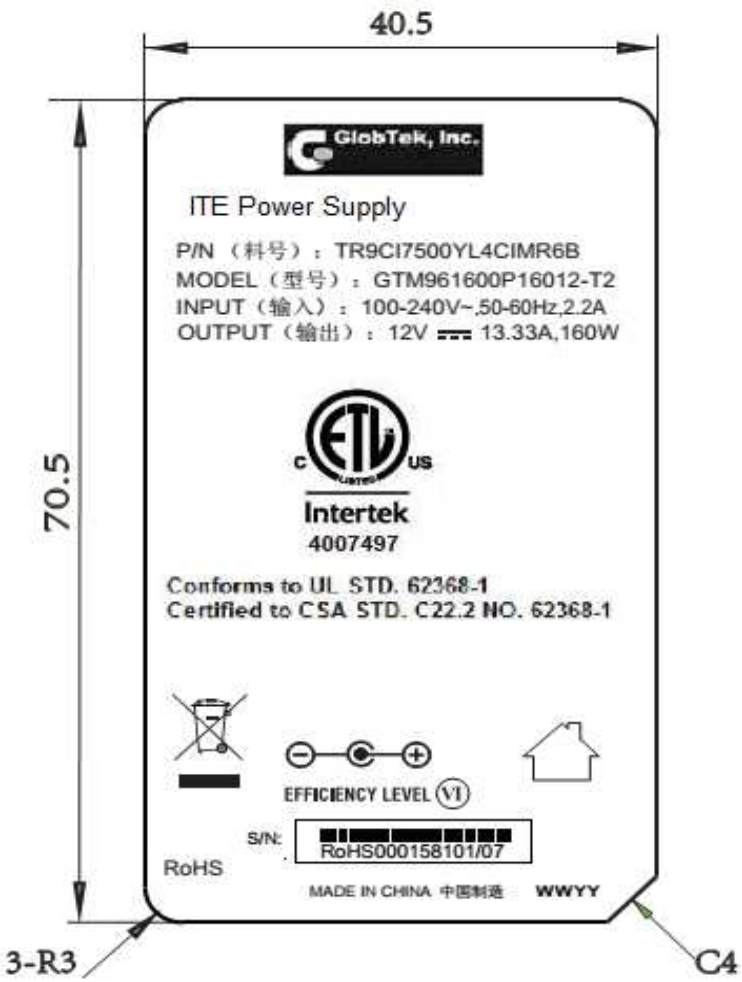
Illustration 4d - Transformer Winding Spec difference of TF081 to TF 092

TABLE 1

1A) 12V-14.9V,	turn ratio	34 / 2,	Litz Primary.	Litz Sec. (per Layer)	Width of Sec.	Primary #2
1B) 13.4V-14.9V,	turn ratio	30 / 2,	34T of 20/0.1	2T of 120/0.1	4.638mm	3T of 2x 0.2mm TIW
2A) 15V-18.9V,	turn ratio	42 / 3,	30T of 20/0.1	2T of 120/0.1	4.638mm	3T of 2x 0.2mm TIW
2B) 17V-18.9V,	turn ratio	36 / 3,	42T of 20/0.1	3T of 100/0.1	5.648mm	4T of 2x 0.2mm TIW
3A) 19V-23.9V,	turn ratio	32 / 3,	36T of 20/0.1	3T of 100/0.1	5.648mm	4T of 2x 0.2mm TIW
3B) 21.5V-23.9V,	turn ratio	38 / 4,	32T of 20/0.1	3T of 80/0.1	5.052mm	3T of 2x 0.2mm TIW
4A) 24V-31.5V,	turn ratio	34 / 4,	38T of 20/0.1	4T of 60/0.1	5.465mm	4T of 2x 0.2mm TIW
4B) 27.6V-31.5V,	turn ratio	37 / 5,	34T of 20/0.1	4T of 60/0.1	5.465mm	3T of 2x 0.2mm TIW
5A) 32V-41.5V,	turn ratio	32 / 5,	37T of 20/0.1	5T of 50/0.1	5.998mm	4T of 2x 0.2mm TIW
5B) 36.5V-41.5V,	turn ratio	33 / 6,	32T of 20/0.1	5T of 40/0.1	5.358mm	3T of 2x 0.2mm TIW
6A) 42V - 54V,	turn ratio	34 / 7,	33T of 20/0.1	6T of 30/0.1	5.411mm	3T of 2x 0.2mm TIW
6B) 48V - 54V,	turn ratio	34 / 8,	34T of 20/0.1	7T of 30/0.1	6.184mm	3T of 2x 0.2mm TIW
			34T of 20/0.1	8T of 25/0.1	6.354mm	3T of 2x 0.2mm TIW

7.0 Illustrations

Illustration 5 - Marking



Note:

1. The marking plates of the other models listed in this report are identical with below except model name and output parameter.
2. The date code of manufacturing is presented as WWYY, YY = manufacturing year, WW = the week of the manufacturing year, e.g. 0216 = The second week of 2016.

7.0 Illustrations

Illustration 6a - Instruction

USER MANUAL

(Ver.1.0)

CAUTION: Read all instructions and warnings prior to using this product. Improper use of this product may result in product damage, excess heat, toxic fumes, fire or explosion.
ATTENTION: Lisez toutes les instructions et les avertissements avant d'utiliser ce produit. L'utilisation inappropriée de ce produit peut entraîner la détérioration du produit, l'excès de chaleur, des fumées toxiques, incendie ou une explosion.

MODEL	INPUT	OUTPUT		
		Voltage (Vdc)	Current (A)	Wattage (Max. W)
GT*961600P** T2/T2A/T3/T3A/TP* GT*961800P**-T2/T2A/T3/T3A/TP*	100 240Vac 50-60Hz 2.2A	12-14.9Vdc	13.33A	160W
GT*961600P**-T2/T2A/T3/T3A/TP* GT*961800P** T2/T2A/T3/T3A/TP*		15-18.9Vdc	11.33A	170W
GT*961600P**-T2/T2A/T3/T3A/TP* GT*961800P** T2/T2A/T3/T3A/TP*		19-54Vdc	9.47A	180W

IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS
DANGER – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS
CONSIGNES DE SÉCURITÉ IMPORTANTES - Conservez ces instructions
DANGER - POUR RÉDUIRE LES RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUE, SUIVEZ ATTENTIVEMENT CES INSTRUCTIONS

1. For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed.
   Pour la connexion à une alimentation pas aux Etats-Unis, utilisez un adaptateur de fixation de la configuration correcte pour la prise d'alimentation, si nécessaire.
2. The product should be use together with a flexible cord in accordance with the following Table and an attachment plug for connection to the mains supply. The blade assembly for connection to the mains supply shall be of the grounding-type. The length of cord external to the unit and including the attachment plug shall not be less than 6 feet (1.8 m) as measured from the face of the attachment plug to the point of attachment or entry.
   Le produit doit être utiliser avec un cordon souple en conformité avec le tableau suivant et une fiche de branchement pour le raccordement au réseau électrique. L'ensemble de lame pour le raccordement au réseau électrique doit être du type de mise à la terre. La longueur du cordon d'alimentation externe à l'unité et dont la fiche de fixation ne doit pas être inférieure à 6 pieds (1,8 m), mesurée à partir de la face de la fiche de liaison au point d'attachement ou d'entrée.

Flexible cord type Type de cordon flexible	Maximum length, feet (m) Longueur maximale, pieds (m)
At least as serviceable as SP-2, SPE-2, SPT-2, SV, SVE, SVT Au moins aussi utile que SP-2, SPE-2, SPT-2, SV, SVE, SVT	10 (3)
At least as serviceable as S, SE, SO, SP-3, SPT-3, ST, STO, SJ, SJE, SJO, SJT, SJTO Au moins aussi utile que S, SE, SO, SP-3, SPT-3, ST, STO, SJ, SJE, SJO, SJT, TJSO	Not specified non spécifié

3. Risk of Electric Shock.
   RISQUE DE CHOC ÉLECTRIQUE.
4. For indoor use only.
   POUR UNE UTILISATION EN INTÉRIEUR.
5. Please check prior use, if output voltage and current of the power supply is suitable for the product.
   Se il vous plaît vérifier avant l'utilisation, si la tension de sortie et le courant de l'alimentation est adapté au produit.

7.0 Illustrations

Illustration 6b - Instruction

6. The socket-outlet shall be installed near the equipment and shall be easily accessible.
   La prise de courant doit être installée près de l'équipement et doit être facilement accessible.
7. The cover may under no circumstances be opened. If the cover is damaged, then the power supply may no longer be used.
   Le couvercle peut en aucun cas être ouvert. Si le couvercle est endommagé, l'alimentation ne peut plus être utilisé.
8. Children should be supervised to ensure that they do not play with the appliance.
   Les enfants doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'appareil.
9. Do not use this apparatus near water.
   Ne pas utiliser cet appareil près de l'eau.
10. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
    AVERTISSEMENT: Pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.
11. Clean only with dry cloth.
    Nettoyer uniquement avec un chiffon sec.
12. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
    Ne pas installer à proximité de sources de chaleur telles que des radiateurs, registres de chaleur, poêles ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Normal environmental conditions:

a) Altitude up to 5 000m;
b) Temperature -10 °C to 40 °C;
c) Storage environment: Temperature - 30-80°C. Humidity 0-95%RH (do not have condensate)

GlobTek, Inc.
www.globtek.com
186 Veterans Drive,
Northvale, NJ 07647
Tel. (201) 784-1000
Fax (201) 784-0111

8.0 Test Summary					
Evaluation Period	29-May-2018 to 20-Aug-2018			Project No.	180401367SHA
Sample Rec. Date	29-May-2018	Condition	Prototype	Sample ID.	0180529-09-001~020
Test Location	Intertek Testing Services Shanghai				
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	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]	-
Energy source classifications	4.2	-
Protection against energy sources	4.3	-
Classification and limits of electrical energy sources	5.2	-
Classification of power sources (PS) and potential ignition sources (PIS)	6.2	-
10 N steady force test	4.6.2	-
Strain on socket-outlet test	4.7.3	-
Temperature test for insulating materials and touch temperature	5.4.1.4, 9.0	-
Determination of working voltage test	5.4.1.8	-
Ball pressure test	5.4.1.10.3	-
Clearances and creepage distances measurement	5.4.2, 5.4.3	-
Solid insulation measurement	5.4.4	-
Humidity conditioning test	5.4.8	-
Electric strength test	5.4.9	-
Thermal energy source classifications	9.2	-
Input test	B.2.5	-
Operating temperature measurement	B.2.6	-
Simulated abnormal operating conditions	B.3	-
Simulated single fault conditions test	B.4	-
Marking durability test	F.3.10	-
Transformer overload tests	G.5.3.3	-
Steady force test – 10 N	T.2	-
Steady force test – 250 N	T.5	-
Drop test	T.7	-
Stress relief Test	T.8	-
Determination of accessible parts test	V.1	-

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:	Albert Zhou	Reviewed by:	Will Wang
Title:	Engineer	Title:	Assistant Manager
Signature:	Albert Zhou	Signature:	Will Wang

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, NJ07647
Country	USA
Product	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 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. Angela Han
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

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

Required Tests

Dielectric Voltage Withstand Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine 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:

Product - One sample from each shipment of Section 4.0 item 11:	**Test Voltage**	**Test Time**
Between primary circuit and secondary output	3000Vac	1 minute
Between secondary circuit and core	3000Vac	1 minute
Product	**Test Voltage**	**Test Time**
All products covered by this Report.		
Between mains input to output terminal / enclosure with metal foil	3000Vac	1 - 4 s

12.0 Revision Summary

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

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
				None