

1.0 Reference and Address			
Report Number	190402863SHA-001	Original Issued:	24-Jun-2019
		Revised:	None
Standard(s)	<p>Information Technology Equipment Safety Part 1: General Requirements &gt;Valid without technical revision: 20Dec2020&lt; [UL 60950-1:2007 Ed.2+R:14Oct2014]</p> <p>Information Technology Equipment Safety Part 1: General Requirements (R2016) &gt;Valid without technical revision: 20Dec2020&lt; [CSA C22.2#60950-1:2007 Ed.2+A1;A2]</p>		
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
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2.0 Product Description	
Product	Multi-Unit Charger
Brand name	<b>Dräger</b>
Description	Product covered by this report is power supply module. Desktop power supply is provided with suitable external enclosure, which is Class I apparatus. Two pieces of outer enclosure are enclosed with screw. The product is not intended to use in the environment which altitude exceed 5000m.
Models	GT-93600SHG3050
Model Similarity	NA
Ratings	Class I, IP20 Input: 100-240V~, 50-60Hz, 1.5A; Output: 9-12.6VDC, 4A AC inlet: 10A MAX AC outlet: 6.3A MAX 1.5kW MAX
Other Ratings	NA

### 3.0 Product Photographs

Photo 1 - External view

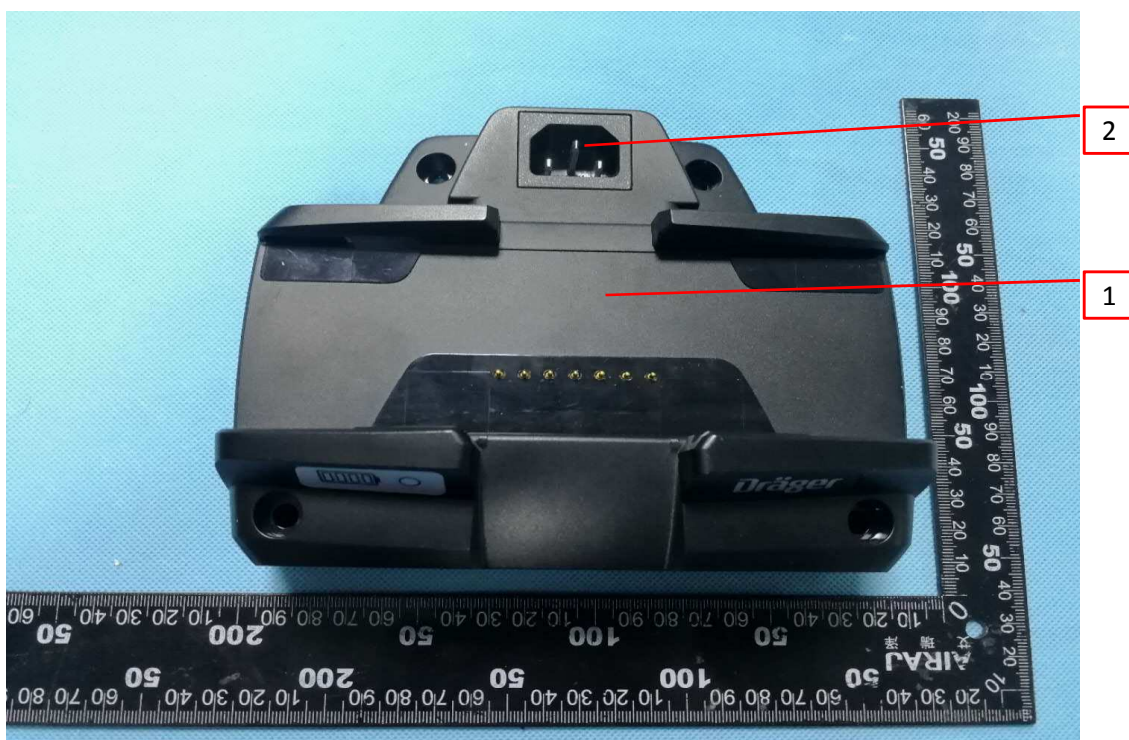
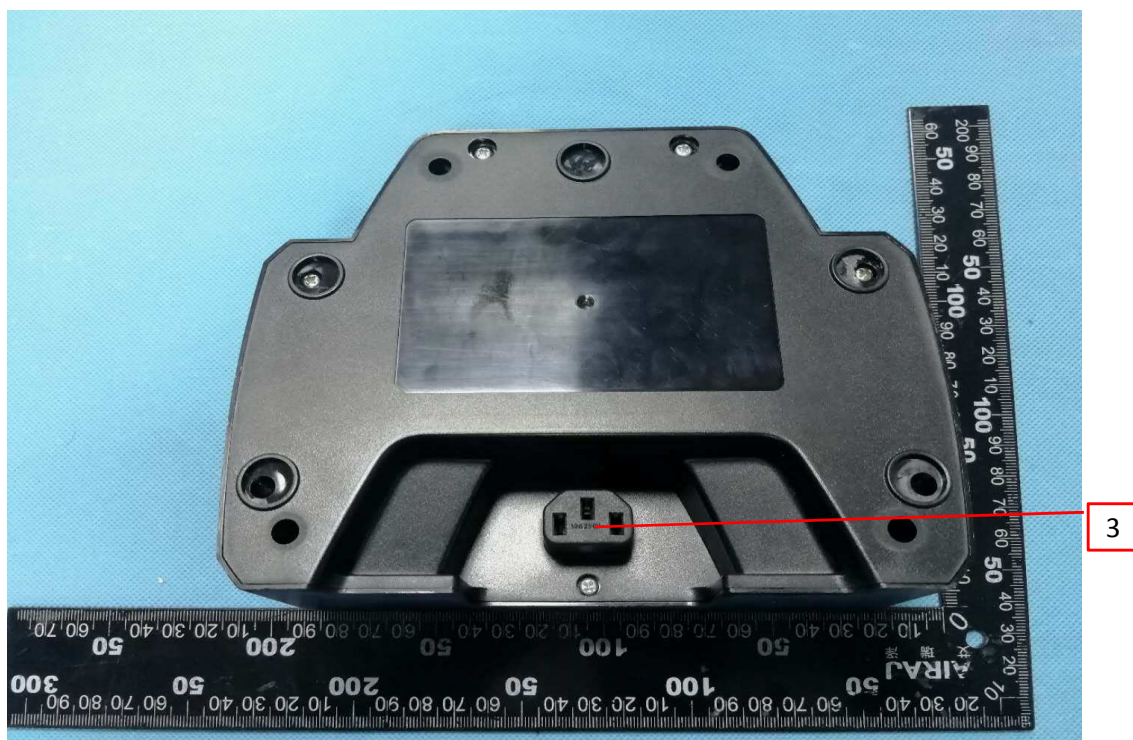


Photo 2 - External view



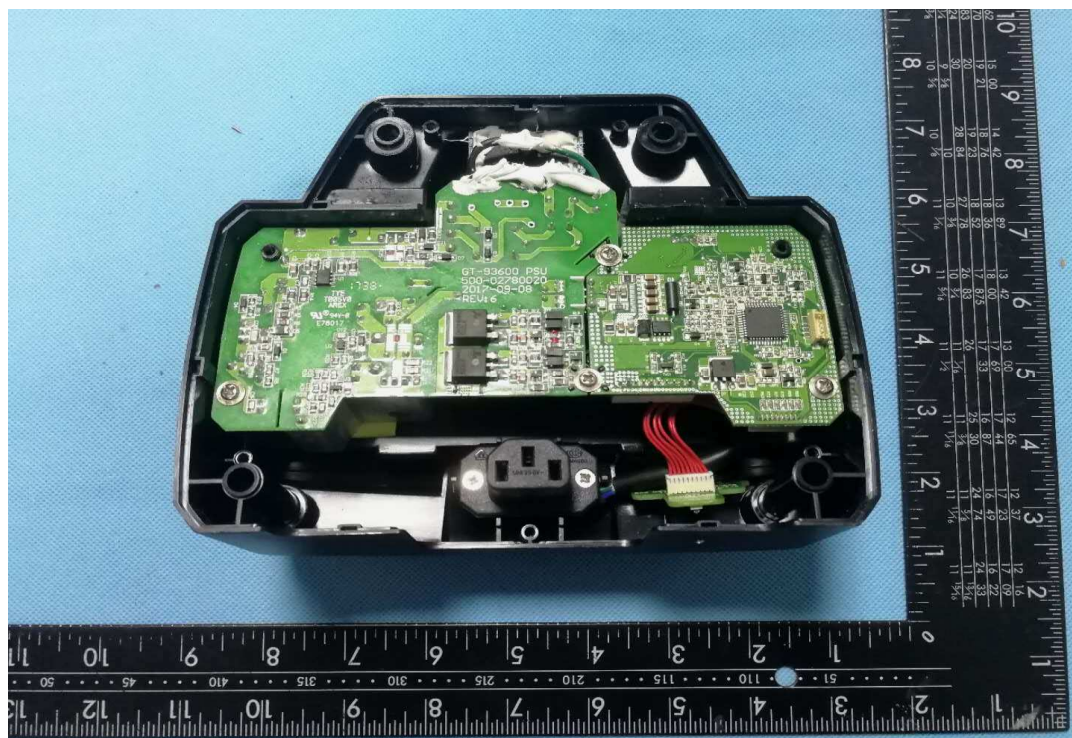


### 3.0 Product Photographs

Photo 3 - Internal view



Photo 4 - Internal view



### 3.0 Product Photographs

Photo 5 - Internal view

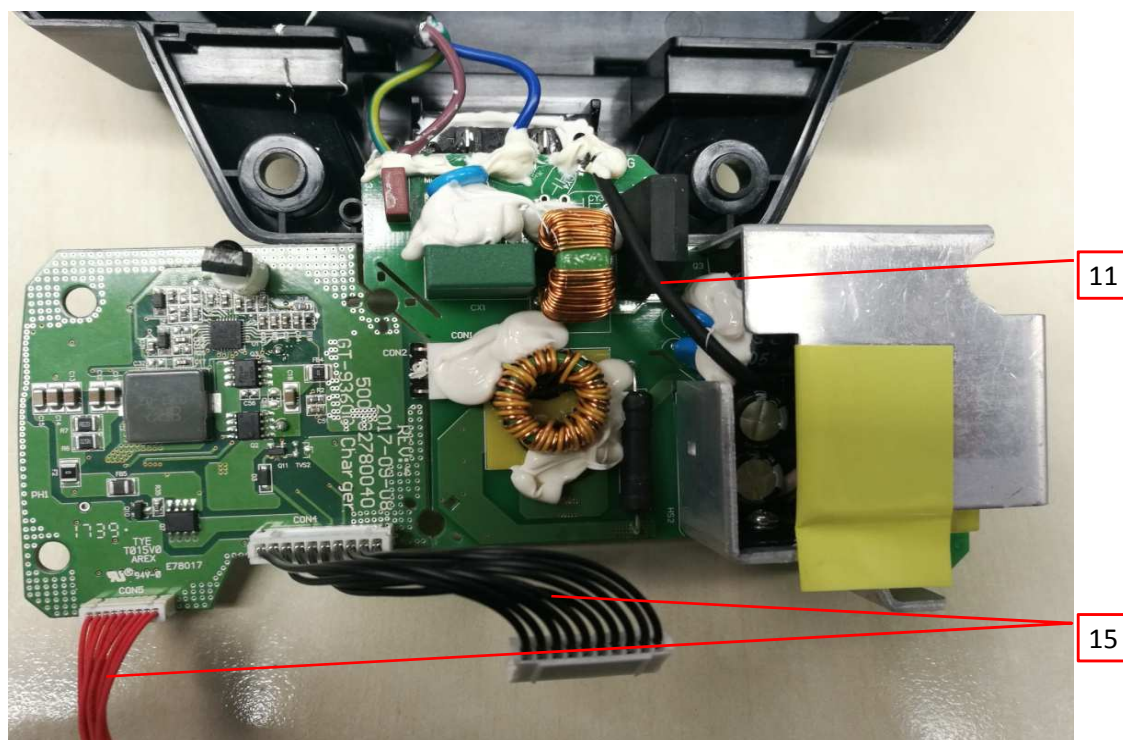
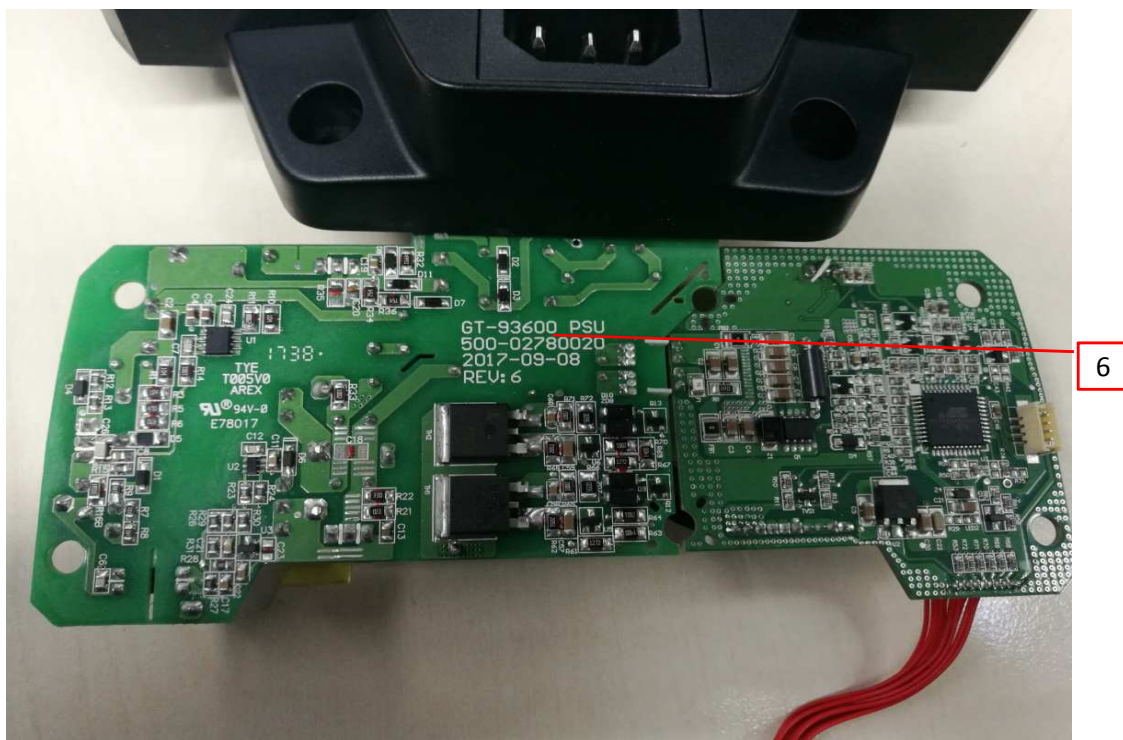


Photo 6 - Internal view





### 3.0 Product Photographs

Photo 7 - Internal view

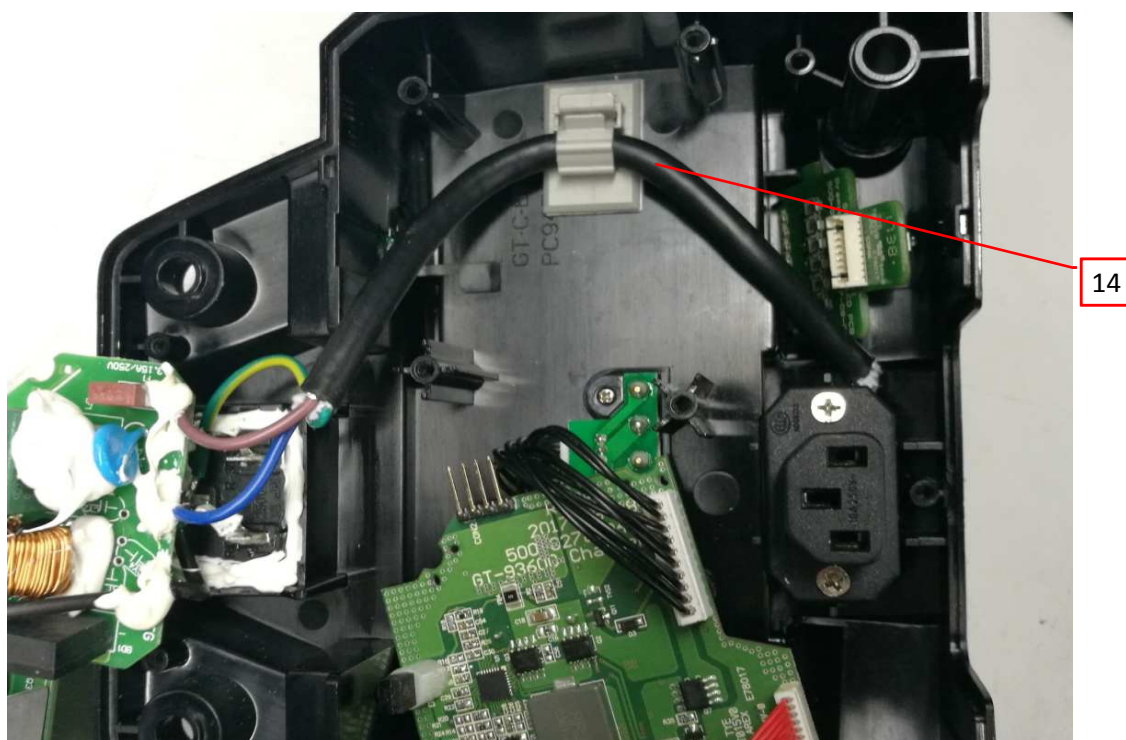


Photo 8 - Internal view



### 3.0 Product Photographs

Photo 9 - PCB

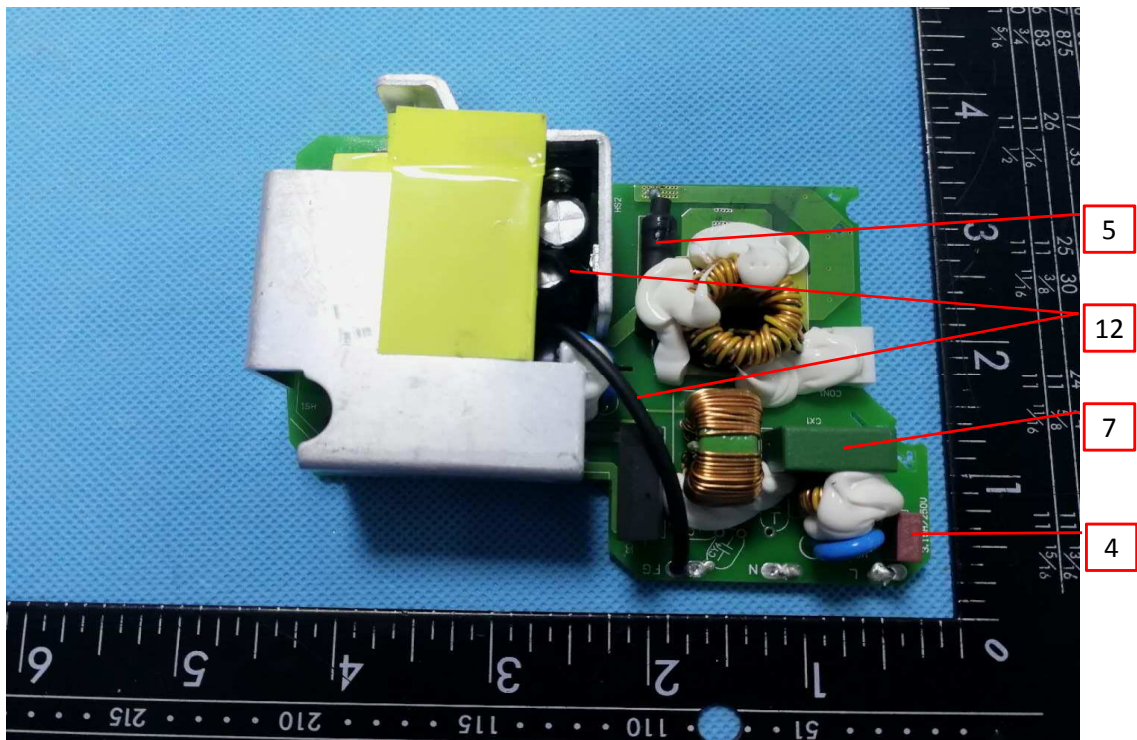
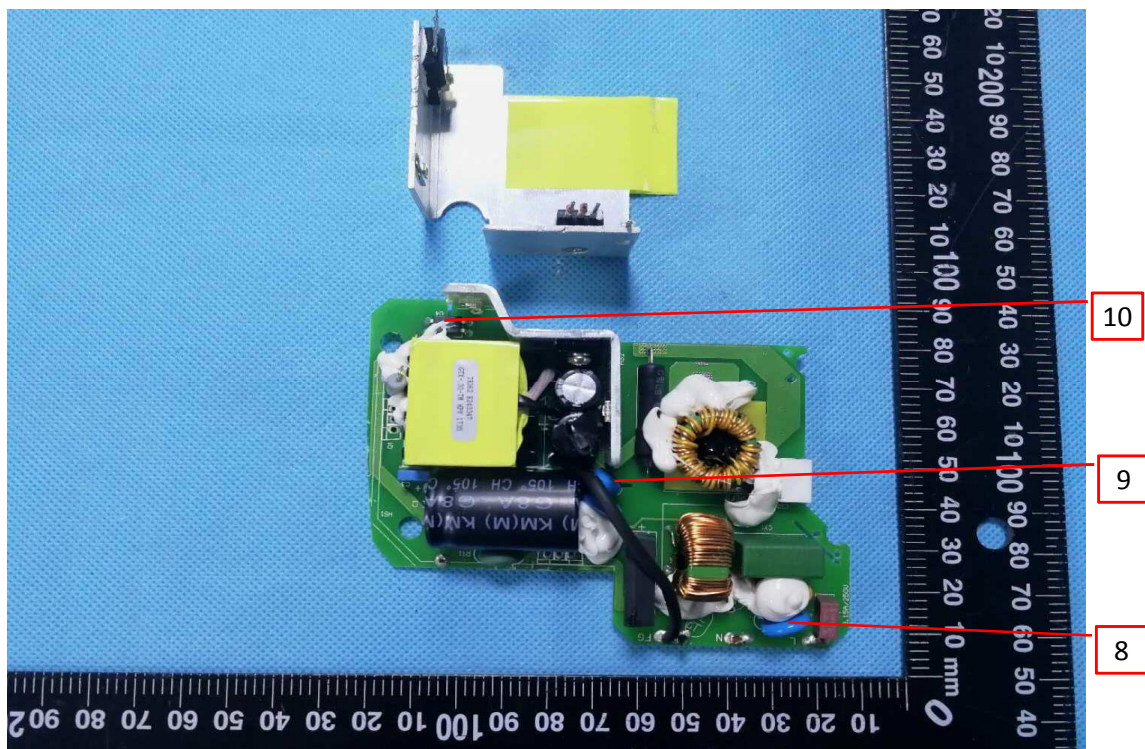


Photo 10 - PCB





### 3.0 Product Photographs

Photo 11 - PCB

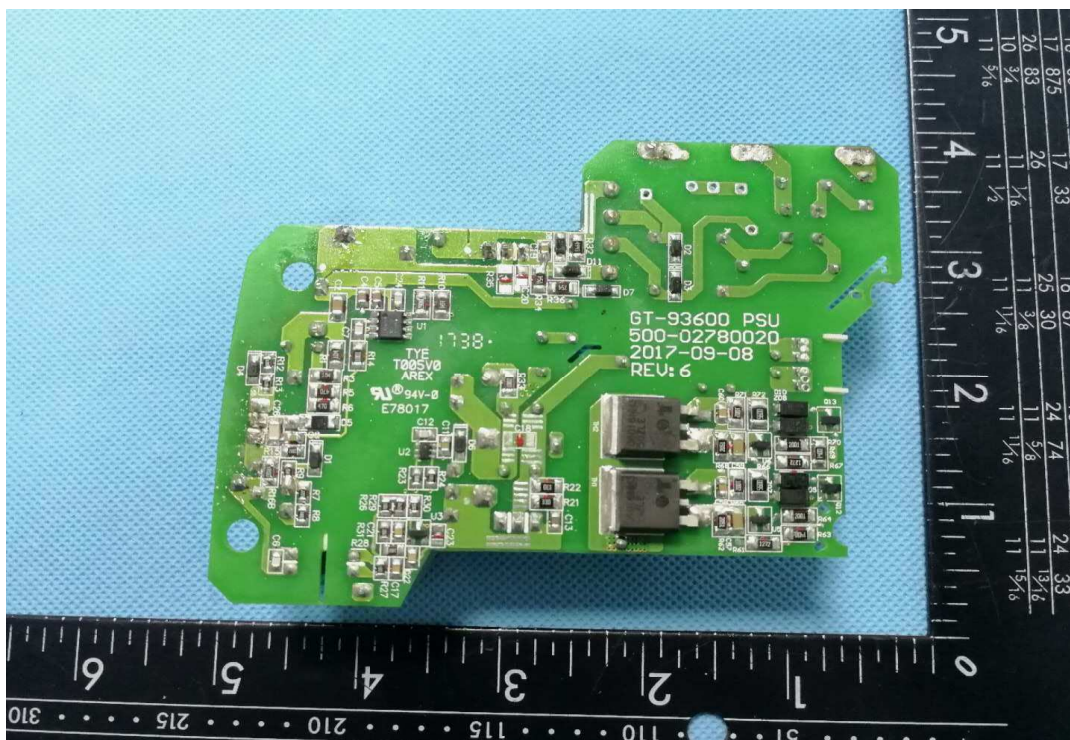
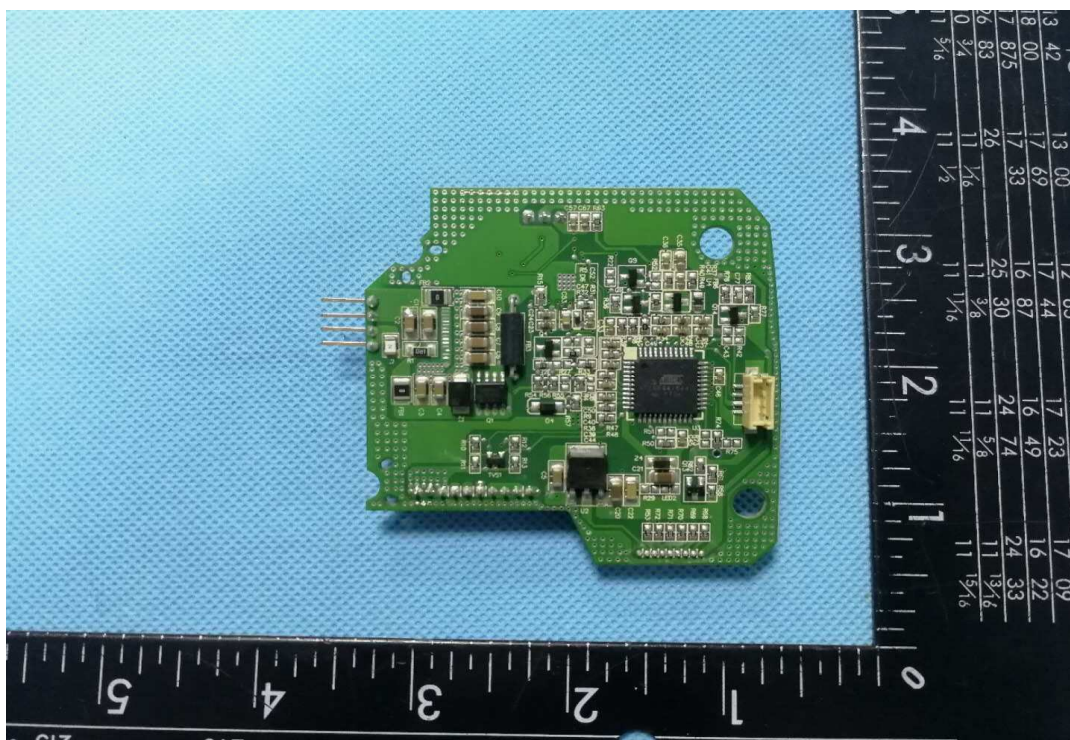


Photo 12 - PCB





### 3.0 Product Photographs

Photo 13 - PCB

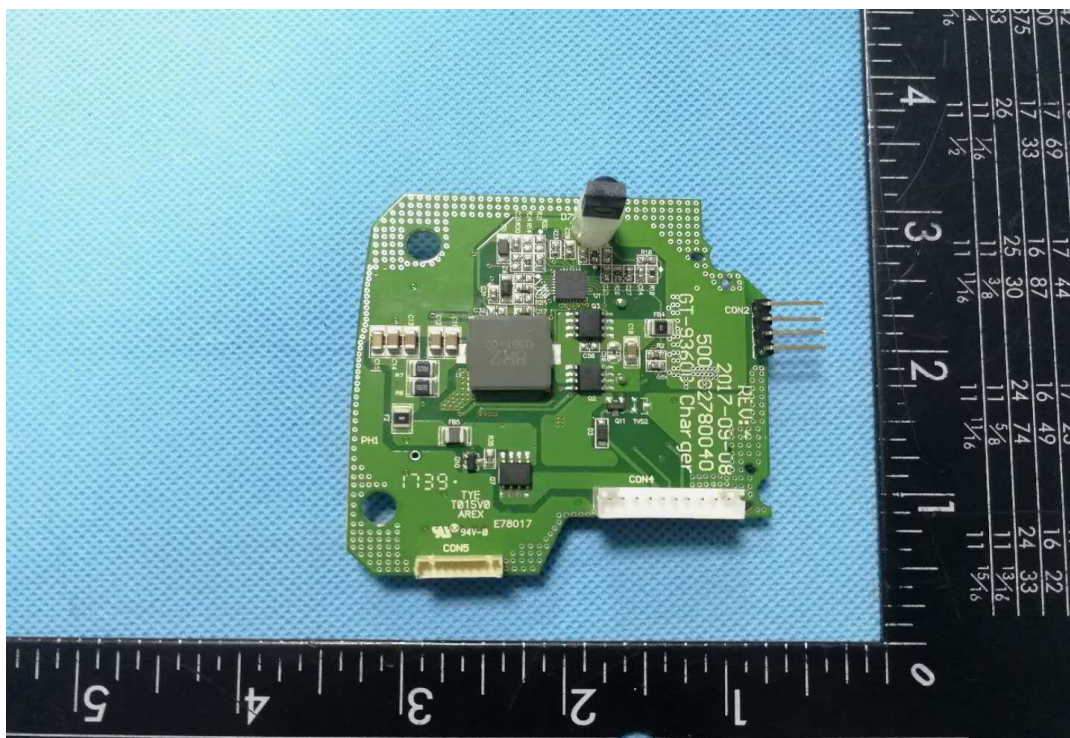
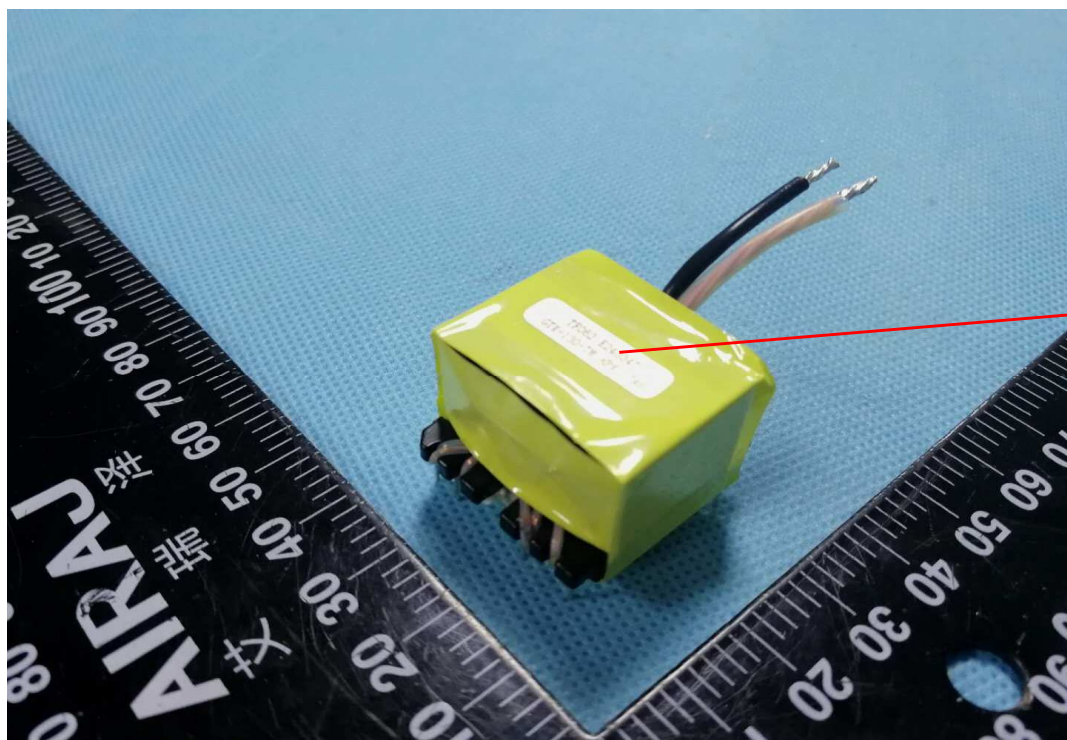


Photo 14 - Transformer



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### 3.0 Product Photographs

Photo 15 - Transformer

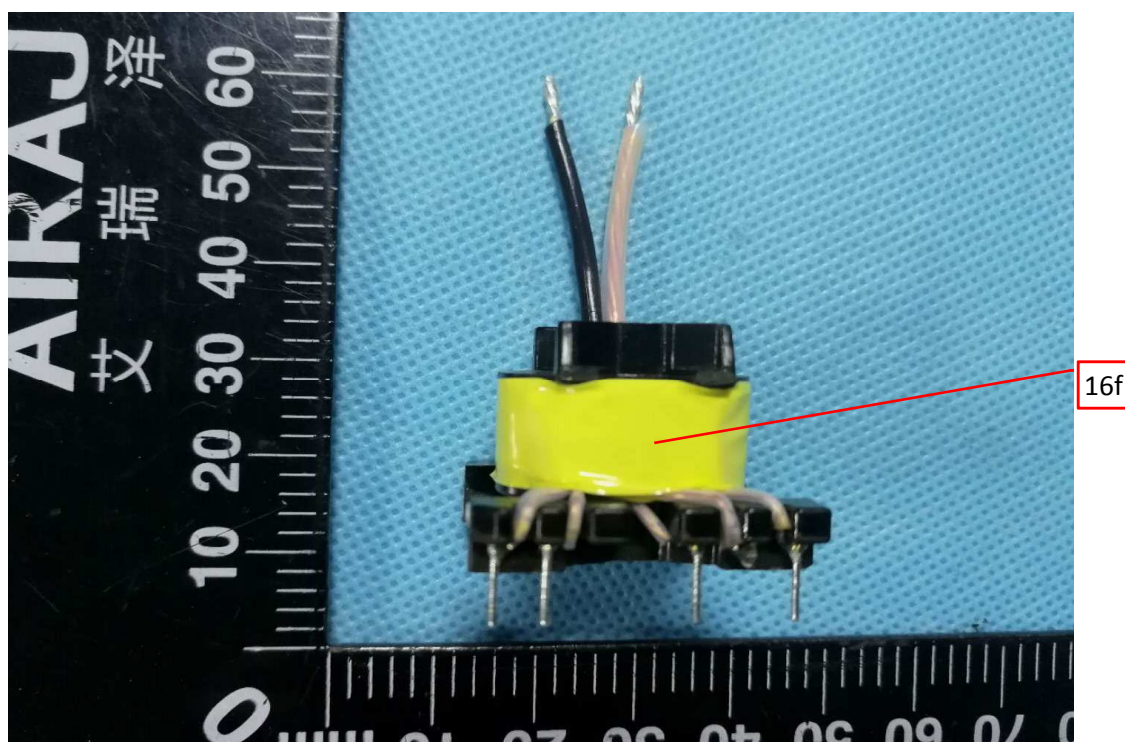
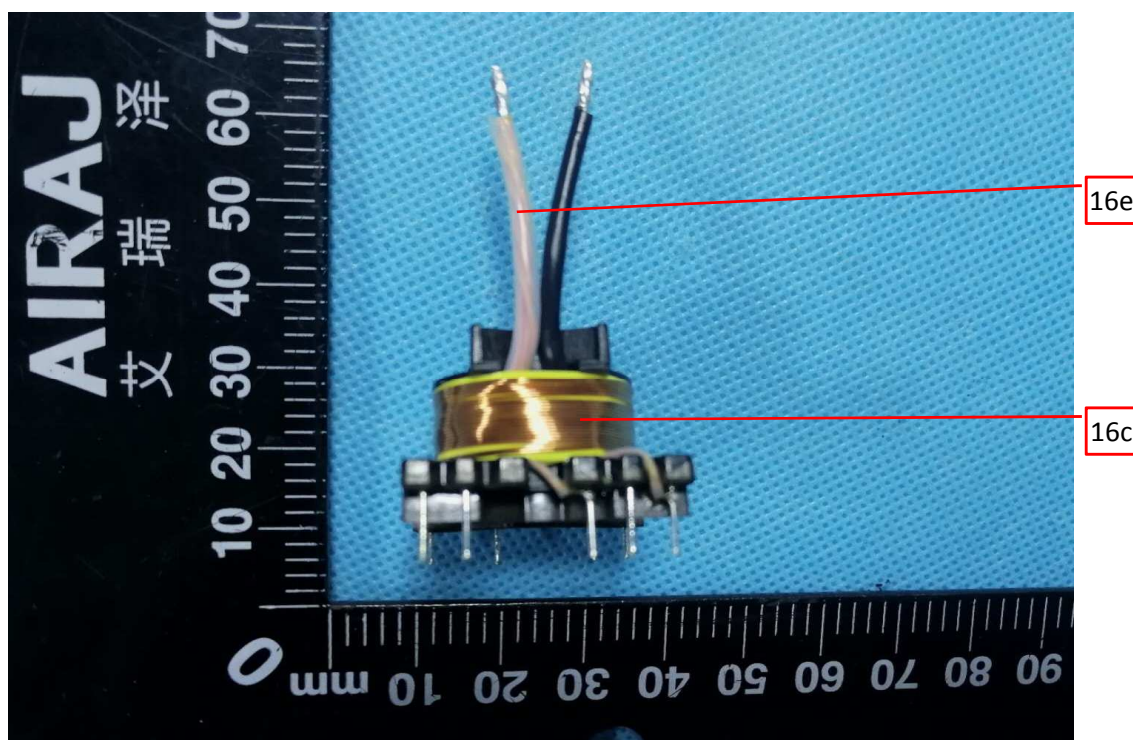


Photo 16 - Transformer





### 3.0 Product Photographs

Photo 17 - Transformer

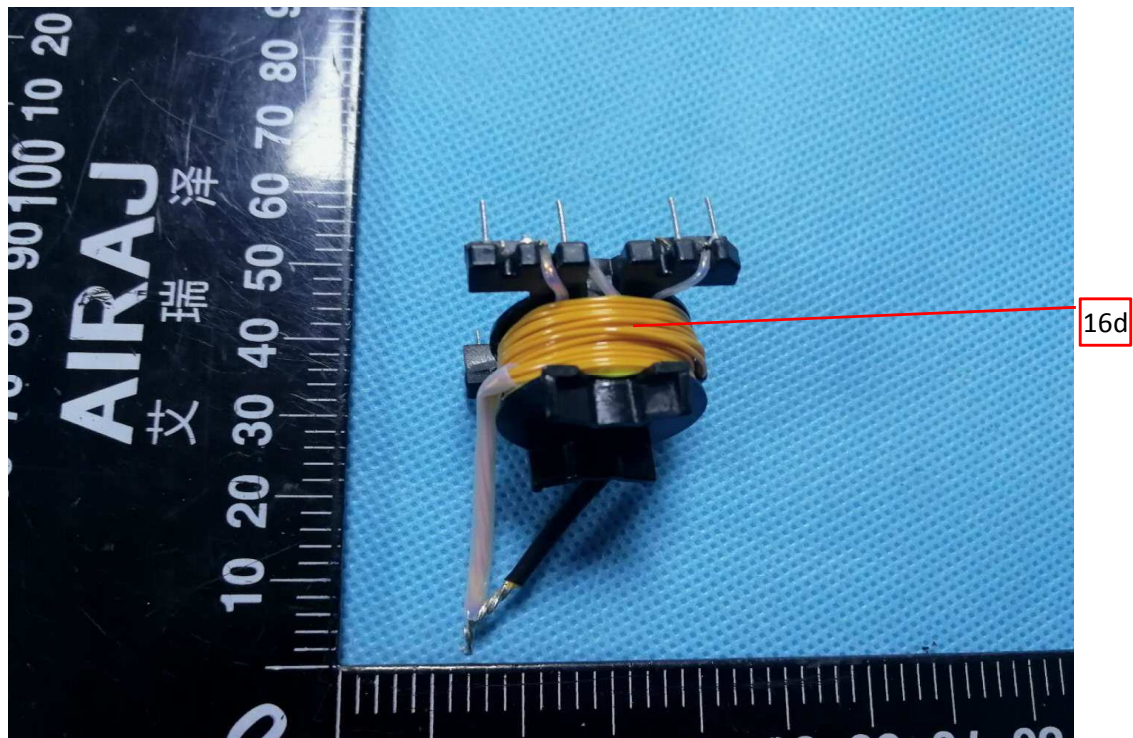
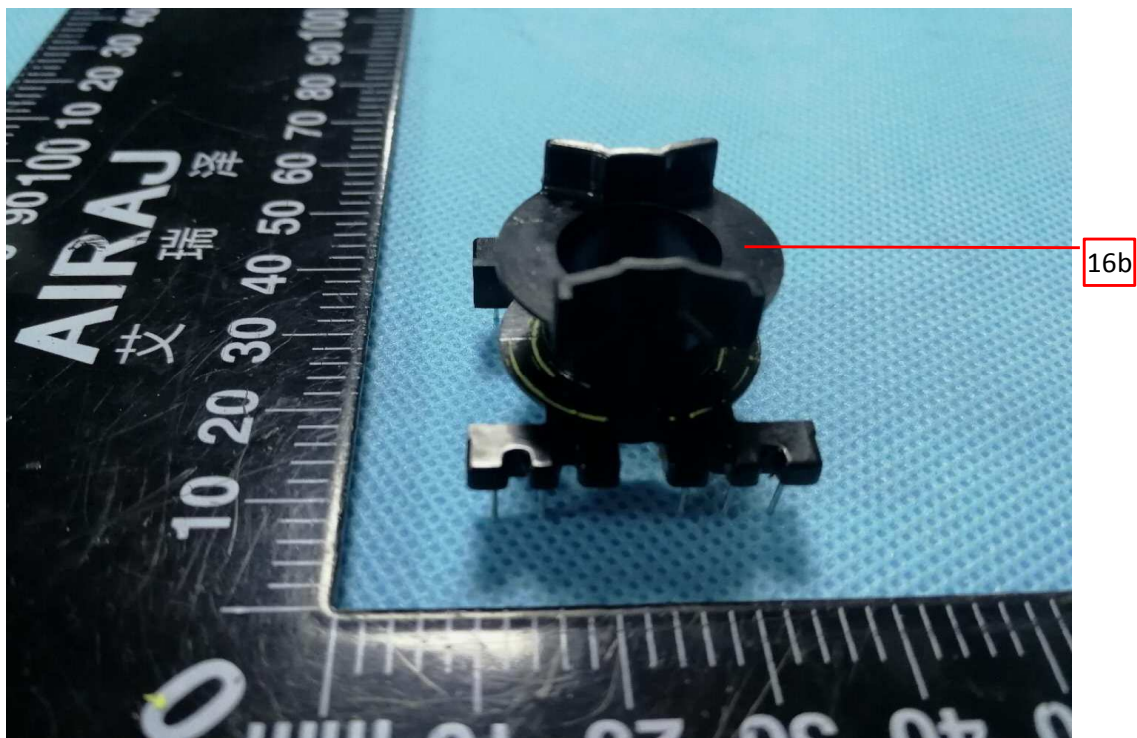


Photo 18 - Transformer



4.0 Critical Components						
Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
1	1	Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X	PPE+PS, V-1, HWI 0, HAI 0, 105°C , min. thickness: 2.0mm;	cURus
				SE1	PPE+PS, V-1, HWI 1, HAI 2, 105°C , min. thickness: 2.0mm;	cURus
				SE100	PPE+PS, V-0, HWI 2, HAI 0, 95°C , min. thickness: 2.0mm;	cURus
				C2950	PC/ABS, V-0, HWI 3, HAI 0, 75°C , min. thickness: 2.0mm;	cURus
				CX7211	PC/ABS, V-0, 5VB, HWI 2, HAI 0, 90°C , min. thickness: 2.0mm;	cURus
				EXCY0098		cURus
				945	PC, V-0, HWI 3, HAI 3, 120°C, min. thickness: 2.0mm;	cURus
				HF500R	PC, V-0, HWI 1, HAI 3, 115°C , min. thickness: 2.0mm;	cURus
			TEIJIN CHEMICALS LTD	LN-1250P	PC, min. V-0, HWI 3, HAI 0, 115°C , min. thickness: 2.0mm;	cURus
				LN-1250G		cURus
			CHI MEI Corporation	PA-765A	ABS, min. V-0, HWI 3, HAI 0, 80°C , min. thickness: 2.0mm;	cURus
				PC-540	PC/ABS, V-0, HWI 3, HAI 3, 80°C , min. thickness: 2.0mm;	cURus
			COVESTRO DEUTSCHLAND AG [PC RESINS]	6485	PC, V-0, HWI 3, HAI 0, 115°C , min. thickness: 2.0mm;	cURus
1	2	Appliance inlet	ZHEJIANG LECI ELECTRONICS CO LTD	DB-14	250VAC, 10A, standard sheet C14 type	cURus
			RICH BAY CO LTD	R-301SN	250VAC, 10A, standard sheet C14 type	cURus
			SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-03	250VAC, 10A, standard sheet C14 type	cURus
			TECX-UNIONS TECHNOLOGY CORP	TU-301-S	250VAC, 10A, standard sheet C14 type	cURus
				TU-301-SP		cURus
			RONG FENG INDUSTRIAL CO LTD	SS-120	250VAC, 10A, standard sheet C14 type	cURus
			INALWAYS CORP	0711	250VAC, 10A, standard sheet C14 type	cURus
2	3	Appliance outlet	RICH BAY CO LTD	R-302A2	250VAC, 10A	cURus



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Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
9	4	Fuse1	EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	T3.15A, 250V	cURus
				ICP	T3.15A, 250V	cURus
			BEL FUSE INC	RST series	T3.15A, 250V	cURus
			COOPER BUSSMANN LLC	SS-5	T3.15A, 250V	cURus
			SHENZHEN LANSON ELECTRONICS CO LTD	SMT	T3.15A, 250V	cURus
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	T3.15A, 250V	cURus
				334 - Serie(s)	T3.15A, 250V	cURus
			HOLLYLAND CO LTD	5ET	T3.15A, 250V	cURus
				32S-020H	T3.15A, 250V	cURus
			CONQUER ELECTRONICS CO LTD	MET series	T3.15A, 250V	cURus
				PTU	T3.15A, 250V	cURus
				MST series	T3.15A, 250V	cURus
			ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD	RTI-10 series	T3.15A, 250V	cURus
9	5	Fuse 3	LITTELFUSE INC	216 series	T5.0A, 250V	cURus
			CONQUER ELECTRONICS CO LTD	UBM,UBM-A	T5.0A, 250V	cURus
			WALTER ELECTRONIC CO LTD	FSC	T5.0A, 250V	cURus
6	6	PCB	WALEX ELECTRONIC (WUXI) CO LTD	T4	Min. 1.6 mm thickness, min. V-0, 130°C	cURus
				T5		cURus
			SHUANG MING INDUSTRY CO LTD	T015V0	Min. 1.6 mm thickness, min. V-0, 130°C	cURus
				T005V0		cURus
			Various	Various	Min. 1.6 mm thickness, min. V-0, 130°C; Fully comply with UL 796.	cURus

#### 4.0 Critical Components

Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
9	7	X capacitor	CHENG TUNG INDUSTRIAL CO LTD	CTX	Min. 300VAC, Max. 0.47μF, -40~+110°C, X1 or X2 (CX1) (Optional)	cURus
			TENTA ELECTRIC INDUSTRIAL CO LTD	MEX	Min. 250VAC, Max. 0.47μF, -40~+100°C, X1 or X2 (CX1) (Optional)	cURus
			JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Min. 300VAC, Max. 0.47μF, -40~+110°C, X1 or X2 (CX1) (Optional)	cURus
			ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Min. 250VAC, Max. 0.47μF, -40~+110°C, X2 (CX1) (Optional)	cURus
			YUON YU ELECTRONICS CO LTD	MPX Series	Min. 250VAC, Max. 0.47μF, -40~+100°C, X2 (CX1) (Optional)	cURus
			SINHUA ELECTRONICS (HUZHOU) CO LTD	MPX	Min. 250VAC, Max. 0.47μF, -40~+110°C, X1 or X2 (CX1) (Optional)	cURus
			JIANGSU XINGHUA HUAYU ELECTRONICS CO LTD	MPX	Min. 250VAC, Max. 0.47μF, -40~+100°C, X2 (CX1) (Optional)	cURus
			DAIN ELECTRONICS CO LTD	MPX	Min. 250VAC, Max. 0.47μF, -40~+110°C, X1 or X2 (CX1) (Optional)	cURus
				MEX		cURus
				NPX		cURus
			XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MKP	Min. 250VAC, Max. 0.47μF, -40~+100°C, X1 or X2 (CX1) (Optional)	cURus
				MPX		cURus
			CARLI ELECTRONICS CO LTD	MPX	Min. 250VAC, Max. 0.47μF, -40~+100°C, X1 or X2 (CX1) (Optional)	cURus



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Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
10	8	Varistor MOV1	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10471K	Max. Continuous voltage: min. 300Vac(rms), 85°C (Optional)	cURus
				TVR14471K		cURus
				TVR10511K		cURus
				TVR14511K		cURus
			CENTRA SCIENCE CORP	CNR-10D471K	Max. Continuous voltage: min. 300Vac(rms), 105°C (Optional)	cURus
				CNR-14D471K		cURus
				CNR-10V471K		cURus
				CNR-14V471K		cURus
				CNR-10D511K		cURus
				CNR-14D511K		cURus
				CNR-10V511K		cURus
				CNR-14V511K		cURus
			SUCCESS ELECTRONICS CO LTD	SVR10D471K	Max. Continuous voltage: min. 300Vac(rms), 105°C (Optional)	cURus
				SVR14D471K		cURus
				SVR10D511K		cURus
				SVR14D511K		cURus
			WALSIN TECHNOLOGY CORP	VZ14D471K	Max. Continuous voltage: min. 300Vac(rms), 85°C (Optional)	cURus
				VZ10D471K		cURus
			LIEN SHUN ELECTRONICS CO LTD	10D471K	Max. Continuous voltage: min. 300Vac(rms), 105°C (Optional)	cURus
				14D471K		cURus
			CERAMATE TECHNICAL CO LTD	GNR10D471K	Max. Continuous voltage: min. 300Vac(rms), 105°C (Optional)	cURus
				GNR14D471K		cURus
				GNR14D511K		cURus
			BRIGHTKING (SHENZHEN) CO LTD	14D471K	Max. Continuous voltage: min. 300Vac(rms), 105°C (Optional)	cURus
				10D471K		cURus
			JOYIN CO LTD	JVT10N471K	Max. Continuous voltage: min. 300Vac(rms), 85°C (Optional)	cURus
				JVT14N471K		cURus
				JVT10N511K		cURus
				JVT14N511K		cURus

#### 4.0 Critical Components

Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
10	9	Y capacitor	TDK CORPORATION	CD	Y1, AC250V, max. 2200pF, -25~+85°C (CY1A, CY1B) (Optional)	cURus
			SUCCESS ELECTRONICS CO LTD	SE	Y1, AC250V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
				SB	(Optional)	cURus
			MURATA MFG CO LTD	KX	Y1, AC250V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
			WALSIN TECHNOLOGY CORP	AH series	Y1, AC250V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
			JYA-NAY CO LTD	JN	Y1, AC250V, max. 2200pF, -25~+125°C (CY1A, CY1B) (Optional)	cURus
			HAOHUA ELECTRONIC CO	CT7	Y1, AC250V, max. 2200pF, -30~+125°C (CY1A, CY1B) (Optional)	cURus
			XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YO-series	Y1, AC250V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
			JUHONG ELECTRONICS LTD	JB- series	Y1, AC250V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
			WELSON INDUSTRIAL CO LTD	WD	Y1, AC250V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
10	10	Photo coupler	JYH CHUNG ELECTRONICS CO LTD	JD	Y1, AC400V, max. 2200pF, -40~+125°C (CY1A, CY1B) (Optional)	cURus
			EVERLIGHT ELECTRONICS CO LTD	EL817	Double protection optical isolators, providing 5000 vac isolation (U4)	cURus
			COSMO ELECTRONICS CORP	K1010	Double protection optical isolators, providing 5000 vac isolation (U4)	cURus
				KP1010		cURus
			LITE-ON TECHNOLOGY CORP	LTV-817	Double protection optical isolators having an isolation voltage of 5300 Vrms (U4)	cURus
			FAIRCHILD SEMICONDUCTOR CORP	H11A817B	Double protection optical isolators, providing 5000 vac isolation (U4)	cURus
				FOD817B		cURus
			SHARP CORP ELECTRONIC COMPONENTS AND DEVICES BU	PC817	Double protection optical isolated switches, providing 5000 Vac isolation (U4)	cURus
			BRIGHT LED ELECTRONICS CORP	BPC-817 A/B/C/D/L	Optical isolators, double protection isolation (U4)	cURus
				BPC-817M		cURus
				BPC-817S		cURus

#### 4.0 Critical Components

Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			TOSHIBA CORP, SEMICONDUCTO R CO DISCRETE SEMICONDUCTO R DIV	TLP781F	Optical isolators, double protection type, rated 5000 Vac (U4)	cURus



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Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
5	11	Earthing wire	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			YONG HAO ELECTRICAL INDUSTRY CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			SHENG YU ENTERPRISE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			SUZHOU YEMAO ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
				1007		cURus
				1185		cURus
			Various	Various	Min. 20 AWG, Min. 300V, Min. 80°C (Covered by heat-shrinkable tubing)	cURus
9	12	Heat-shrinkable tubing	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C	cURus
				RSFR-H		cURus
				RSFR-HPF		cURus
			QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	cURus
			DONGGUAN SALIPT CO LTD	SALIPT S-901-300	Min. 300V, 125°C	cURus
				SALIPT S-901-600		cURus
			GUANGZHOU KAIHENG	K-2 (+)	Min. 300V, 125°C	cURus

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Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			ENTERPRISE GROUP	K-2 (CB)	Min. 300V, 125°C	cURus
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	cURus

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4	13	Internal input cord (Not shown)	SUZHOU YEMAO ELECTRONIC CO LTD	1007	Min. 18AWG, min. 300Vac, min. 80°C	cURus
			Various	Various	Min. 18AWG, min. 300Vac, min. 80°C	cURus
7	14	Internal AC connection cord	SUZHOU DIOUDE ELECTRONICS CO LTD	SVT	Min. 18AWG, min. 300Vac, min. 80°C; Jacketed cord.	cURus
5	15	Internal secondary wire	SUZHOU YEMAO ELECTRONIC CO LTD	1007	Min. 24AWG, min. 300Vac, min. 80°C	cURus
			Various	Various	Min. 24AWG, min. 300Vac, min. 80°C	cURus
14	16	Transformer	GlobTek/ BOAM/ HAOPUWEI	TF062	Class B with insulation system below. (T1)	NR
14	16a	Insulation system (Not shown)	GLOBTEK INC	GTX-130-TM	Class B	cURus
			SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01	Class B	cURus
				B01	Class B	cURus
			WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130	Class B	cURus
18	16b	Bobbin	CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150°C, thickness 0.45 mm min.	cURus
				T375HF		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



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Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
16	16c	Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	cURus
				UEWS/U	MW75-C, 130°C	cURus
			JUNG SHING WIRE CO LTD	UEW-4	MW75-C, 130°C	cURus
				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
17	16d	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
			FURUKAWA ELECTRIC CO LTD	TEX-E	Reinforced Insulation, rated 130°C (Class B), 1.41 kVolts peak for Information Technology;	cURus
			DAH JIN TECHNOLOGY CO LTD	TLW-B	Reinforced Insulation, rated 130°C (Class B), 1.40 kVolts peak for Information Technology;	cURus
16	16e	PTFE tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT	300V, 200°C	cURus
				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
				CB-TT-S	600V, 200°C	cURus

4.0 Critical Components						
Photo #	Item no.1	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
15	16f	Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C	cURus
				1350T-1		cURus
				44		cURus
			BONDTEC PACIFIC CO LTD	370S	130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C	cURus
				CT		cURus
				WF		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

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.

<b>5.0 Critical Unlisted CEC Components</b>
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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.

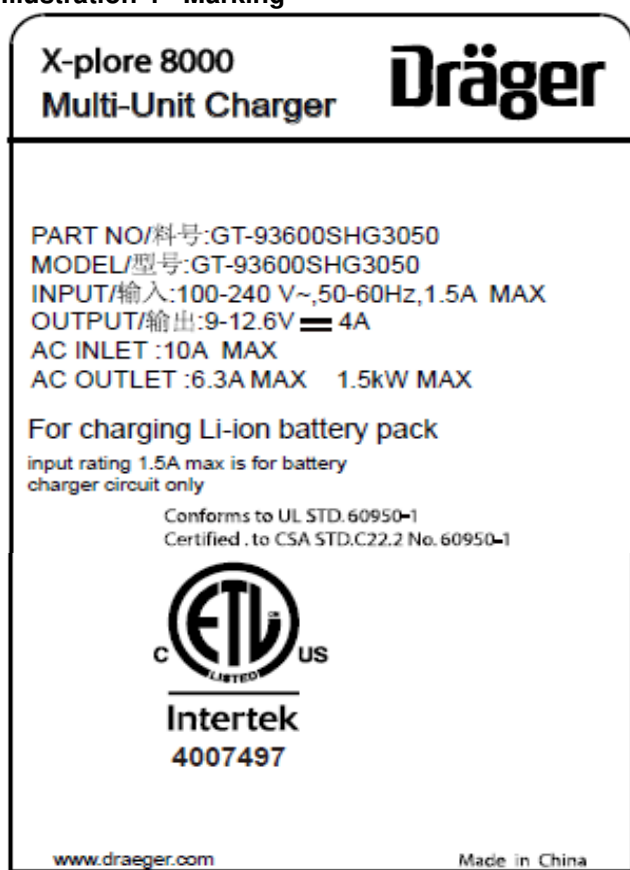
Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

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, 3.0 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 6.2 mm minimum between such current-carrying parts and 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 - 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.
6. Polarized Connection - This product is not provided with a polarized power supply connection.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. UL approved wiring is used as secondary output lead wire of SELV circuits and earthing wire for Class I models. All wiring is minimum 24 AWG, with a minimum rating of 300V, 80°C.
8. Schematics - Refer to Illustration No(s). 1a, 1b and 1c for schematics requiring verification during Field Representative Inspection Audits.
9. PCB Layout - Refer to Illustration No(s). 2a and 2b for PCB layout requiring verification during Field Representative Inspection Audits.
10. Transformer - Refer to Illustration No. 3 for transformer construction requiring verification during Field Representative Inspection Audits.
11. Markings - The product is marked as follows: brand name, model number, electrical ratings, manufacturer. Refer to Illustration No. 4 for details.

## 7.0 Illustrations

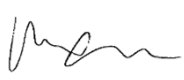

Illustration 4 - Marking



Conforms to UL STD.60950-1  
Certified .to CSA STD.C22.2 No.60950-1



8.0 Test Summary					
Evaluation Period	24-May-2019 to 30-May-2019			Project No.	190402863SHA
Sample Rec. Date	22-May-2019	Condition	Prototype	Sample ID.	0190522-05-001
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			Information Technology Equipment Safety Part 1: General Requirements >Valid without technical revision: 20Dec2020< [UL 60950-1:2007 Ed.2+R:14Oct2014]		
			Information Technology Equipment Safety Part 1: General Requirements (R2016) >Valid without technical revision: 20Dec2020< [CSA C22.2#60950-1:2007 Ed.2+A1;A2] Clause		
Input test			1.6.2		
Marking test			1.7.11		
Finger test			2.1.1.1 b)		
Pin test			2.1.1.1 c)		
Energy hazard test			2.1.1.5		
Stored charge on capacitors test			2.1.1.7		
Voltage under normal conditions test			2.2.2		
Voltage under fault conditions test			2.2.3		
Limited curent circuit test			2.4		
Limited power source test			2.5		
Earthing resistance test			2.6.3		
Humidity test			2.9.2		
Working voltage measurement			2.10.2		
clearances and creepage distances measurement			2.10.3/2.10.4		
Distance through insulation measurements			2.10.5		
Mechanical strength-250N force test			4.2.4		
Mechanical strength-steel ball test			4.2.5		
Mechanical strength-stress relief test			4.2.7		
Temperature rise			4.5.1		
Ball pressure test			4.5.5		
Touch current & protective conductor current test			5.1		
Electric strength test			5.2		
Abornal test			5.3		

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:	Frank Xu	Reviewed by:	Jacky Shu
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	Multi-Unit Charger

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 issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

**For US standards**, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

**For Canadian standards**, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

**Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.**

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

### MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

### FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
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

### 13.3 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>
Between L/N and secondary output	3000Vac	1 s

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

ED 16.3.15 (20-Apr-17) Mandatory