


1.0 Reference and Address					
Report Number	180501714SHA-001	Original Issued:	13-Aug-2019	Revised:	28-Aug-2020
Standard(s)	Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [AAMI ES60601-1:2005 +A1]				
	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance (R2018) [CSA C22.2#60601-1:2014 Ed.3]				
	Medical Electrical Equipment Part 1-11: General Requirements For Basic Safety And Essential Performance Collateral Standard - Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment [IEC 60601-1-11:2015 Ed.2]				
	Medical Electrical Equipment - Part 1-11: General Requirements For Basic Safety And Essential Performance - Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment [CSA C22.2#60601-1-11:2015 Ed.2]				
Applicant	GlobTek, Inc.		Manufacturer	GlobTek (Suzhou) Co., Ltd.	
Address	186 Veterans Drive NORTHVALE NJ 07647		Address	Building 4 No. 76 JinLing East Road Suzhou Industrial Park SUZHOU Jiangsu 215021	
Country	USA		Country	China	
Contact	Hans Moritz		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	Moritzh@globtek.com		Email	demon.zhou@globtek.cn	

<b>2.0 Product Description</b>	
Product	Medical Power Supply
Brand name	 <b>GlobTek, Inc.</b>
Description	<p>Product covered by this report is medical power supply module.</p> <p>Desktop / direct plug-in power supply are provided with suitable external enclosure. The top and bottom parts of the enclosure are ultrasonic welded.</p> <p>Open frame power supplies are without external enclosure. Encapsulated type has an enclosure of thickness 2.0 mm enclosing 3 sides .</p> <p>The products were tested to be suitable for connection to <math>\leq 16</math> A (IEC) and <math>\leq 20</math> A (USA) branch circuit in series. The unit is approved for TN mains star connections. The unit provides internally two fuses.</p> <p>The power supplies are rated class I, class II or class II with functional earth. Open frame and encapsulated class I power supplies shall be properly bonded to the main protective bonding termination in the end product.</p> <p>All the types are designed for continuous operation.</p> <p>The external enclosure of GTM91128LI*CEL**_**** and GTM91128***_**** should be touched for less than 1 second.</p>
Models	<p>GT followed by M, - or H; followed by 96180- or 96300- or 91120-; followed by 01 to 36; followed by 07.5, 10.5, 14.5,19.5, 24, 36, 48, 54, 56, 07,11, 17.9, 30, 38, 48, 54 or 56; may be followed by -0.01 to -12.0; maybe followed by -T2, -T2A, -T3, -T3A, -R2, -R3A, -F, -FW, -P2 or -P3; may be followed by -AP, -PP or -SP; may be followed by six characters.</p> <p>GTM91128LI followed by 1, 2 or 3; followed by CEL; may be followed by M; may be followed by -R2, -T2 or -T2A; followed by -042, -084 or -126; followed by 01 to 20; may be followed by 050 to 140; may be followed by 01 to 36.</p> <p>GTM91128 followed by two characters; followed by CHRGE or DUALC; may be followed by -R2, -T2 or -T2A; followed by -032 to -126; followed by 01 to 20; may be followed by 050 to 140; may be followed by 01 to 36.</p>

2.0 Product Description	
Model Similarity	<p><b>GT**_*****</b></p> <p>The 1st “**” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.                      The 2nd “**” can be 96180 or 96300 or 91120 or 91128 for market identification                      The 3rd “**” denotes the rated output wattage designation, which can be “01” to “36”, with interval of 1.                      The 4th “**” denotes the standard rated output voltage designation, when the 2nd“**” = 96180 which can be “07”, “11”, “17.9”, “30”, “38”, “48”, “54” or “56”; when the 2nd“**”=96300 or 91120 which can be “07.5”, “10.5”, “14.5”, “19.5”, “24”, “36”, “48”, “54” or “56”.                      The 5th “**”is optional deviation, subtracted from standard output voltage, which can be “-0.01” to “-12.0” with interval of 0.01, or blank to indicate no voltage different.                      The 4th “**” and 5th “**” together denote the output voltage, with a range of 5 - 56 volts.                      The 6th “**” = blank, it means wall plug in with interchangeable blade                      =-T2 means desktop class II with C8 AC inlet                      =-T2A means desktop class II with C18 AC inlet                      =-T3 means desktop class I or class II with functional earth with C14 AC inlet                      =-T3A means desktop class I or class II with functional earth with C6 AC inlet                      =-R2 means hybrid desktop housing class II with C8 AC inlet                      =-R3A means hybrid desktop housing class I or class II with functional earth with C6 AC inlet                      =-F means Open Frame class I or class II with functional earth                      =-FW means Open Frame class II                      =-P2 means Encapsulated class II                      =-P3 means Encapsulated class I or class II with functional earth                      The 7th “**” = Blank or -AP or -PP or -SP                      -AP (with baby board) stands for Active POE (full IEEE compliant)                      -PP (no baby board) stands for Passive POE                      -SP (no baby board) stands for Simple POE                      The last “**” can be any six character consist 0 to 9 or A to Z or ()[] or – or blank for marketing purpose.                      When the 2nd“**”=91128,                      the model will be GTM91128LI1CEL Output: 4.2V, 1000mA;                      or Model GTM91128LI2CEL Output: 8.4V, 1000mA;                      or Model GTM91128LI3CEL Output: 12.6V, 1000mA;</p> <p><b>GTM91128***_****</b></p> <p>The 1st “**” denotes any two characters for marketing purposes.                      The 2nd “**” denotes product type, which can be CHARGE or DUALC. CHARGE means single output. DUALC means dual output.                      The 3rd “**”                      = blank or -R2 means hybrid desktop housing class II with C8 AC inlet                      = -T2 means desktop class II with C8 AC inlet                      = -T2A means desktop class II with C18 AC inlet                      The 4th “**” part is a 3-digit number code from “032” to “126”. It represents the first output voltage from 3.2V to 12.6V with interval of 0.1V.                      The 5th “**” part is a 2-digit number code from “01” to “20”. It represents the first output current from 0.1A to 2.0A with interval of 0.1A.                      The 6th “**” part is a 3-digit number code, which can be from “050” to “140”. It represents the second output voltage from 5.0Vdc to 14.0Vdc with interval of 0.1V.                      The 7th “**” part is a 2-digit number code, which can be from “01” to “36”. It represents the second output current from 0.1A to 3.6A with interval of 0.1A.                      When 2nd “**” is CHARGE, the 6th and the 7th “**” are blank too.                      There are two alternative PCB layout for this product, with 1 LED or with 2 LEDs. Only the number of LED indicator are different and other part of PCB are identical.                      Models of GTM91128***-**** are same except the turns of transformer's secondary winding are different for different output voltage and the parameter of some non-critical components are set according different output voltage.</p>

<b>2.0 Product Description</b>	
	<p>GTM91128LI*CEL**-*                      The 1st "*" part denotes the number of charging cells, which can be "1" or "2" or "3".                      The 2nd "*" denotes product type, which can be M or blank. M means dual output and blank means single output.                      The 3rd "*" = blank or -R2 means hybrid desktop housing class II with C8 AC inlet                      = -T2 means desktop class II with C8 AC inlet                      = -T2A means desktop class II with C18 AC inlet                      The 4th "*" part is a 3-digit number code, which can be "042", "084" or "126". It represents the first output voltage of 4.2V, 8.4V or 12.6V.                      The 5th "*" part is a 2-digit number code, which can be from "01" to "20". It represents the first output current from 0.1A to 2.0A with interval of 0.1A.                      The 6th "*" part is a 3-digit number code, which can be from "050" to "140". It represents the second output voltage from 5.0Vdc to 14.0Vdc with interval of 0.1V.                      The 7th "*" part is a 2-digit number code, which can be from "01" to "36". It represents the second output current from 0.1A to 3.6A with interval of 0.1A.                      When 2nd "*" is blank, the 6th and the 7th "*" are blank too.                      There are two alternative PCB layout for this product, with 1 LED or with 2 LEDs. Only the number of LED indicator are different and other part of PCB are identical.                      Models of GTM91128LI*CEL**-* series are same except the turns of transformer's secondary winding are different for different output voltage and the parameter of some non-critical components are set according different output voltage.</p>
Ratings	<p>Input: 100-240V~, 50-60Hz, 0.6A / 1.0A / 1.5A;                      Output: 3.2-56VDC, Max 36W</p>
Other Ratings	N/A

## 2.0 Product Description

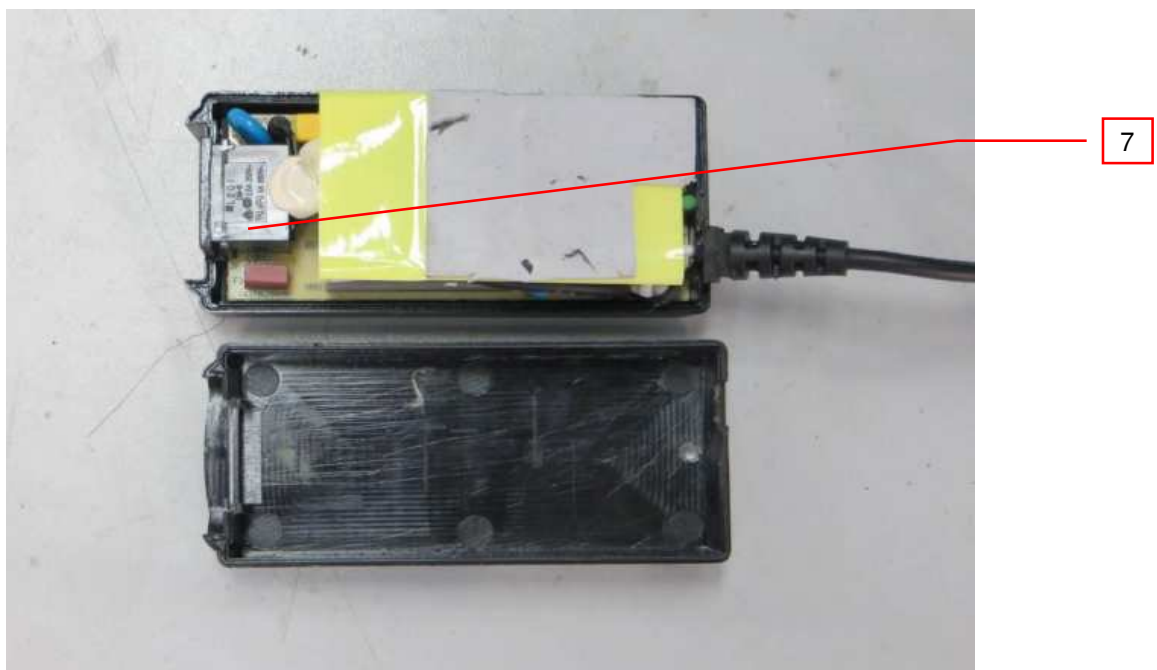
Conditions of Acceptability	<p>The products covered in this Report are incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in other products. Consideration should be given to the following when the component is used in or with another product.</p> <p>1.Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation:</p> <ul style="list-style-type: none"><li>a) Clause 7.9 (Accompanying Documents of power adapter model are provided for some critical issue like technical data, safety warnings, necessary information to set up. Further evaluation is needed for both power adapter model and open frame model on end product level.),</li><li>b) Clause 8.11.5 (Mains Fuse with High Breaking Capacity),</li><li>c) Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated,</li><li>d) Clause 10 (Radiation),</li><li>e) Clause 11.7 (Biocompatibility),</li><li>f) Clause 14 (PEMS),</li><li>g) Clause 16 (ME Systems),</li><li>h) Clause 17 (EMC)</li></ul> <p>2. For open frame model</p> <ul style="list-style-type: none"><li>• Suitability of the enclosure should be evaluated when installed in the end product including access to energized parts, clearance &amp; creepage distance measurement and mechanical strength.</li><li>• Temperature Testing should be performed on this component when installed in the end product.</li></ul>
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**3.0 Product Photographs**

**Photo 1 - External view for GTM96300 series**

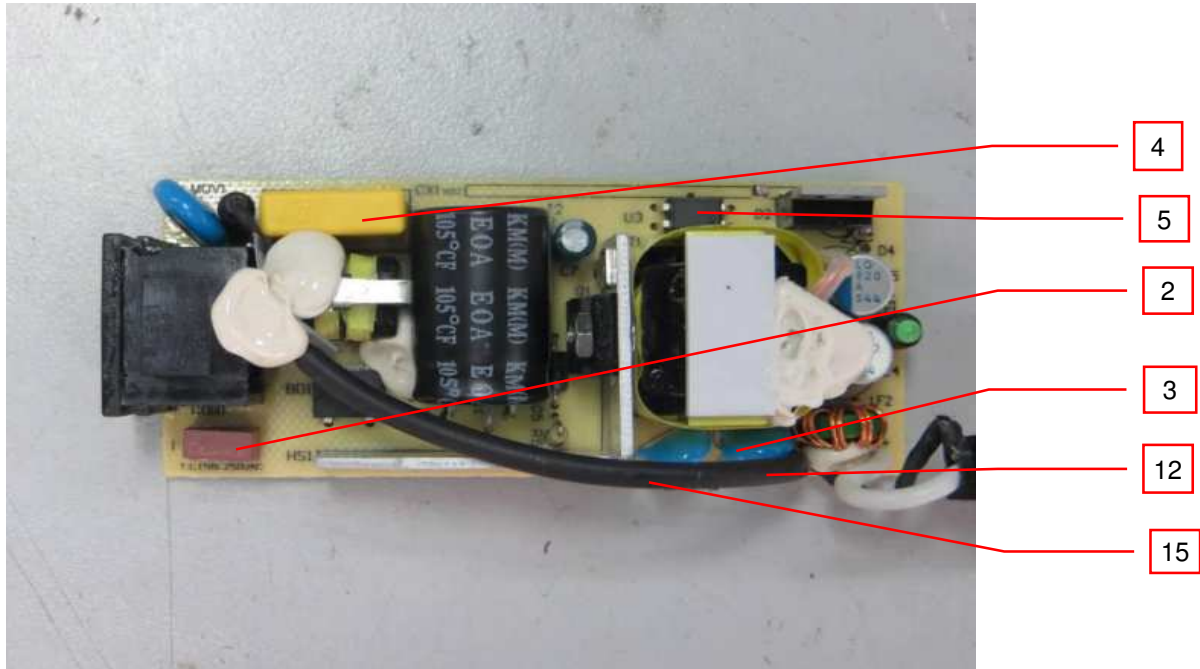


**Photo 2 - Internal view for GTM96300 series (Class I)**

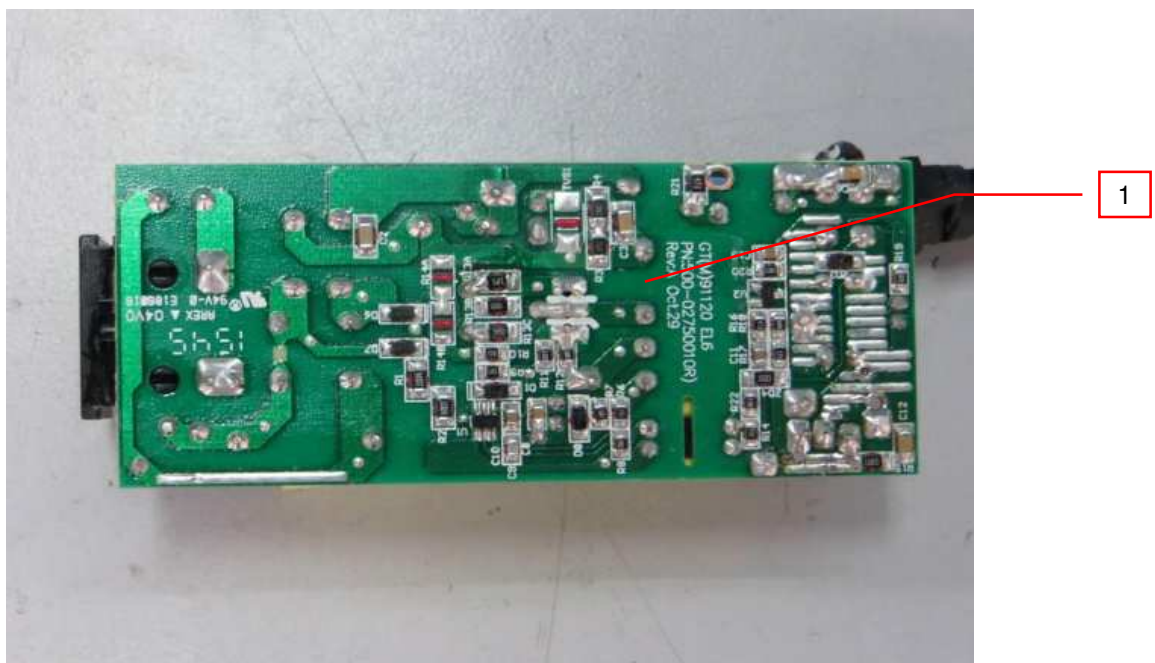


**3.0 Product Photographs**

**Photo 3 - PCB for GTM96300 series (Class I)**

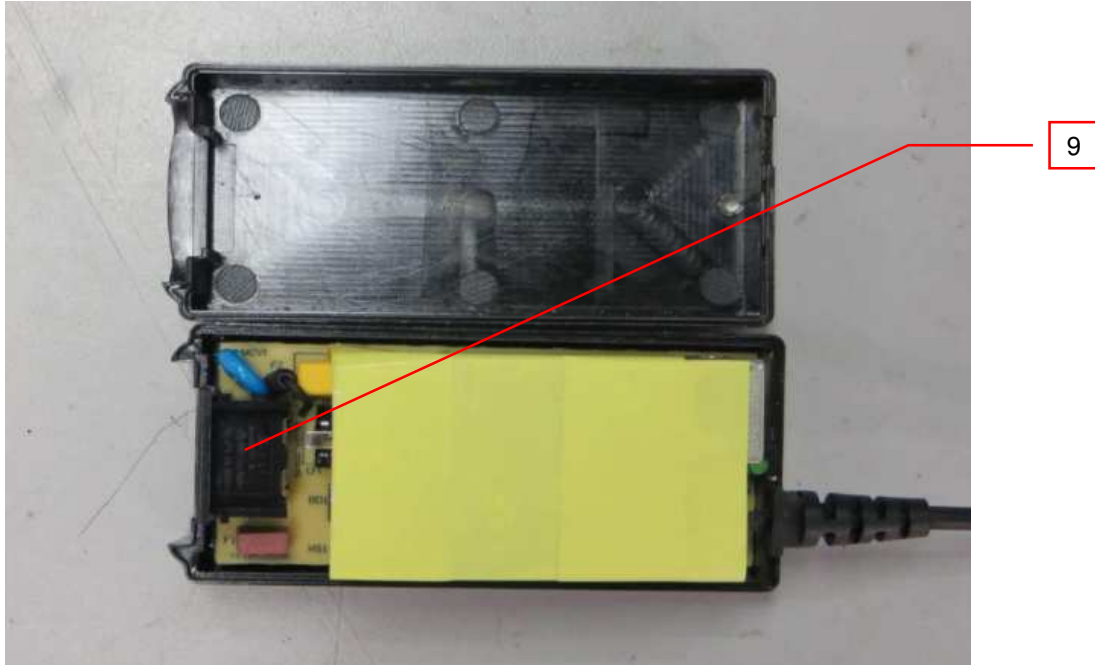


**Photo 4 - PCB for GTM96300 series (Class I)**

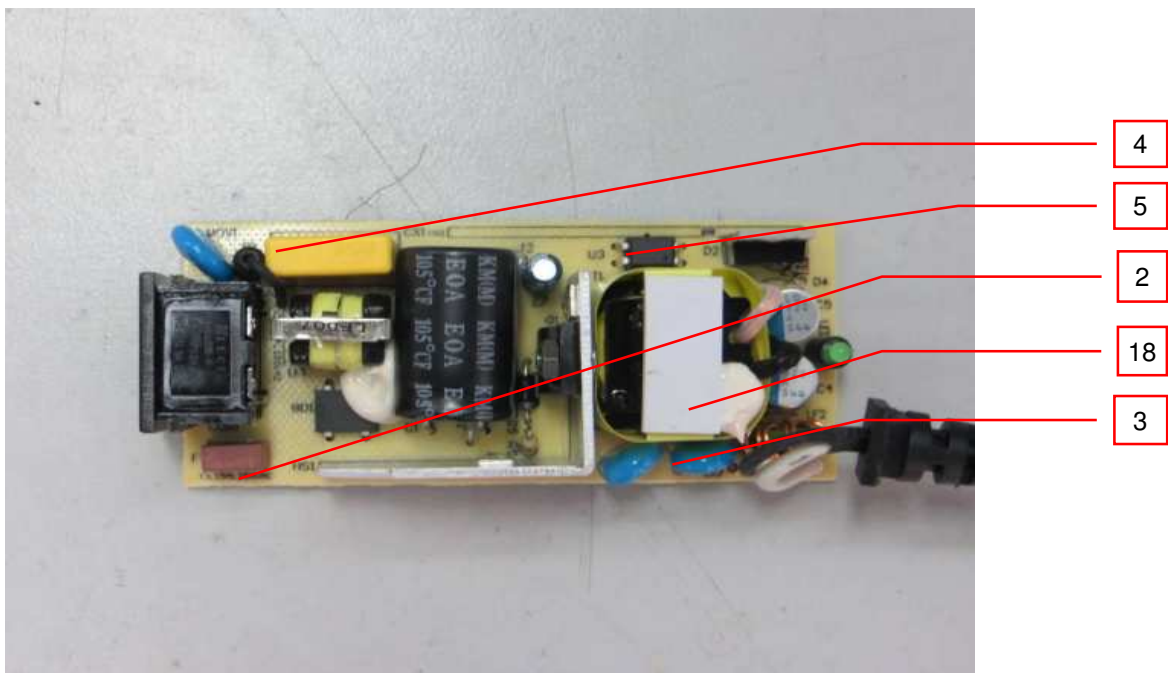


**3.0 Product Photographs**

**Photo 5 - Internal view for GTM96300 series (Class II)**



**Photo 6 - PCB for GTM96300 series (Class II)**





**3.0 Product Photographs**

**Photo 7 - External view for GTM96180 series (desktop)**

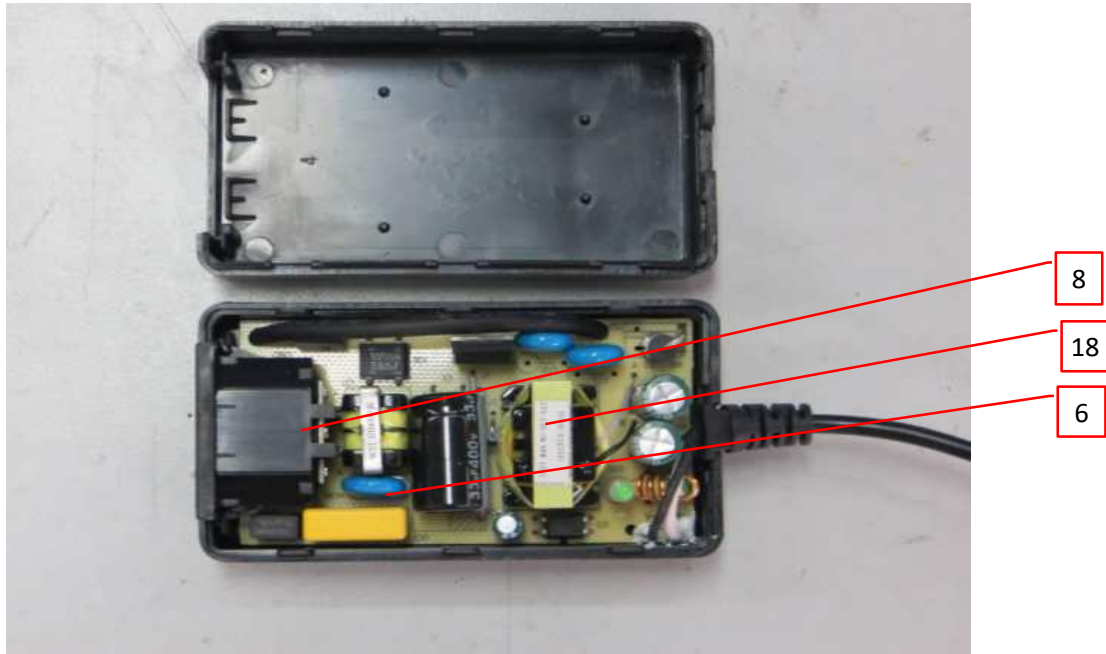


**Photo 8 - External view for GTM96180 series (Interchangeable plug)**

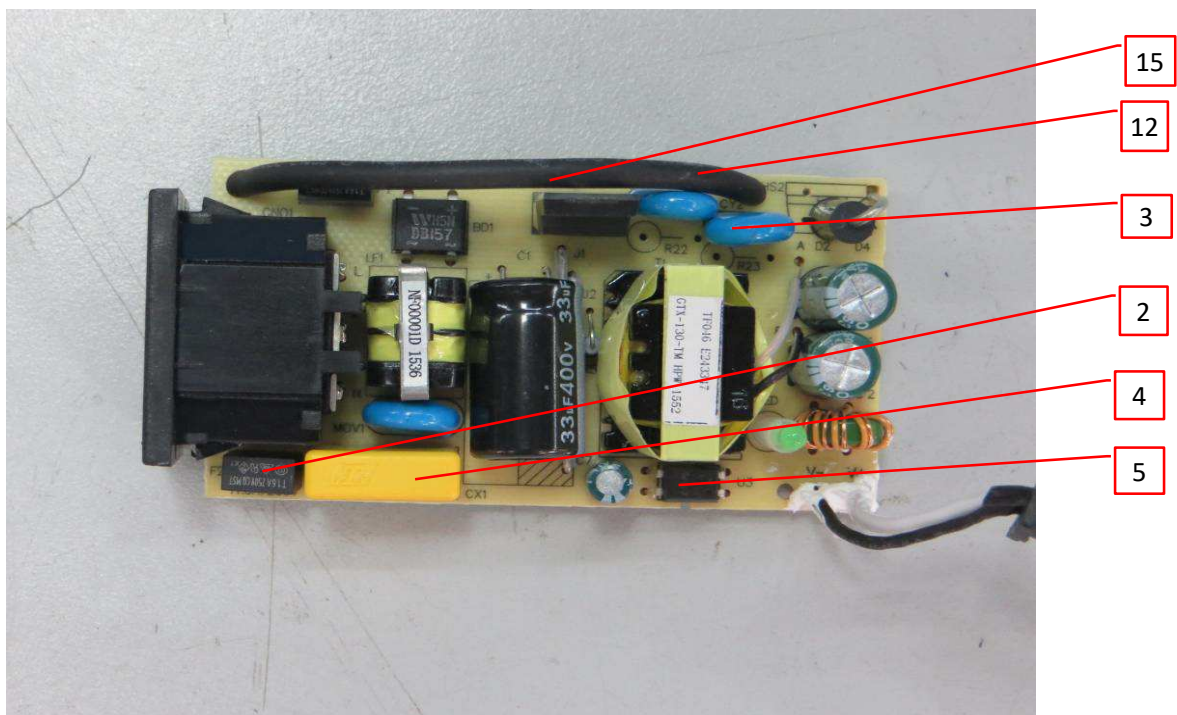


**3.0 Product Photographs**

**Photo 9 - Internal view for GTM96180 series (Class I)**

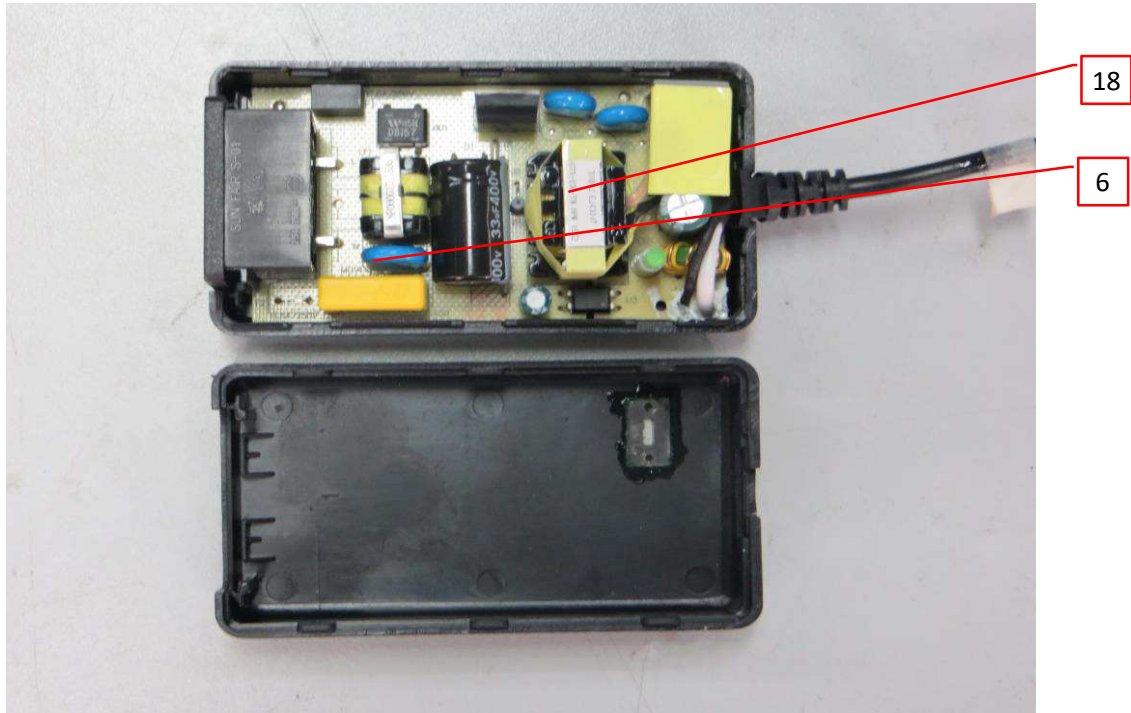


**Photo 10 - PCB for GTM96180 series (Class I)**

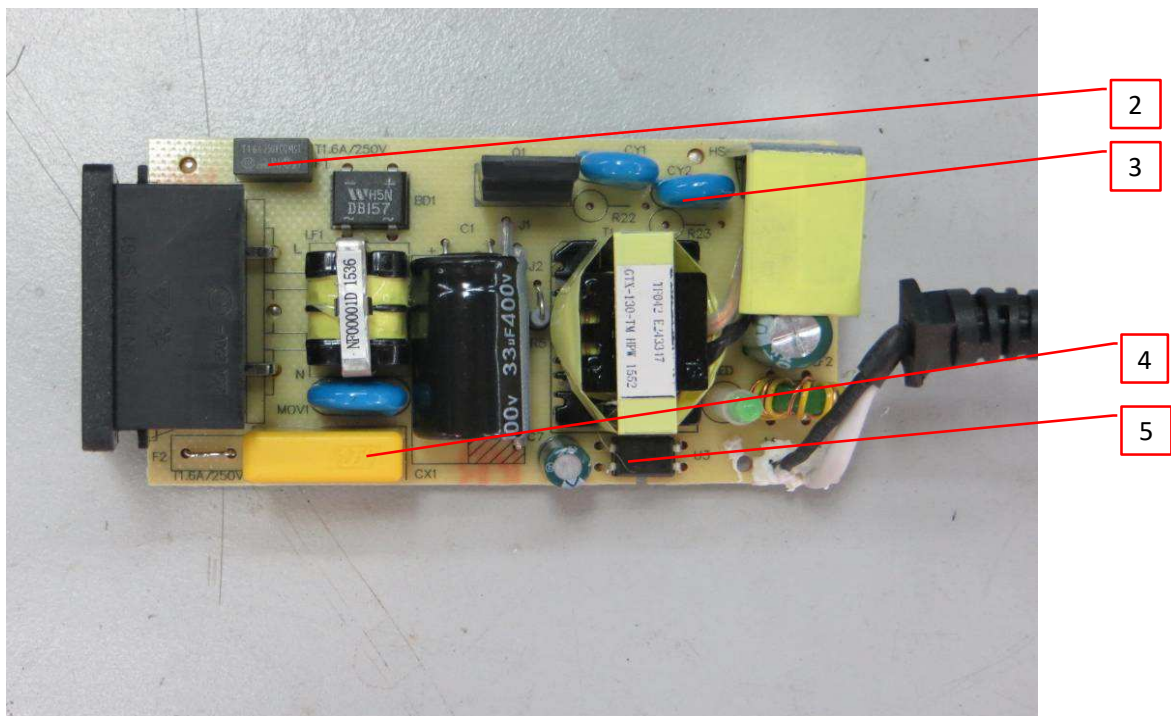


**3.0 Product Photographs**

**Photo 11 - Internal view for GTM96180 series (Class II)**

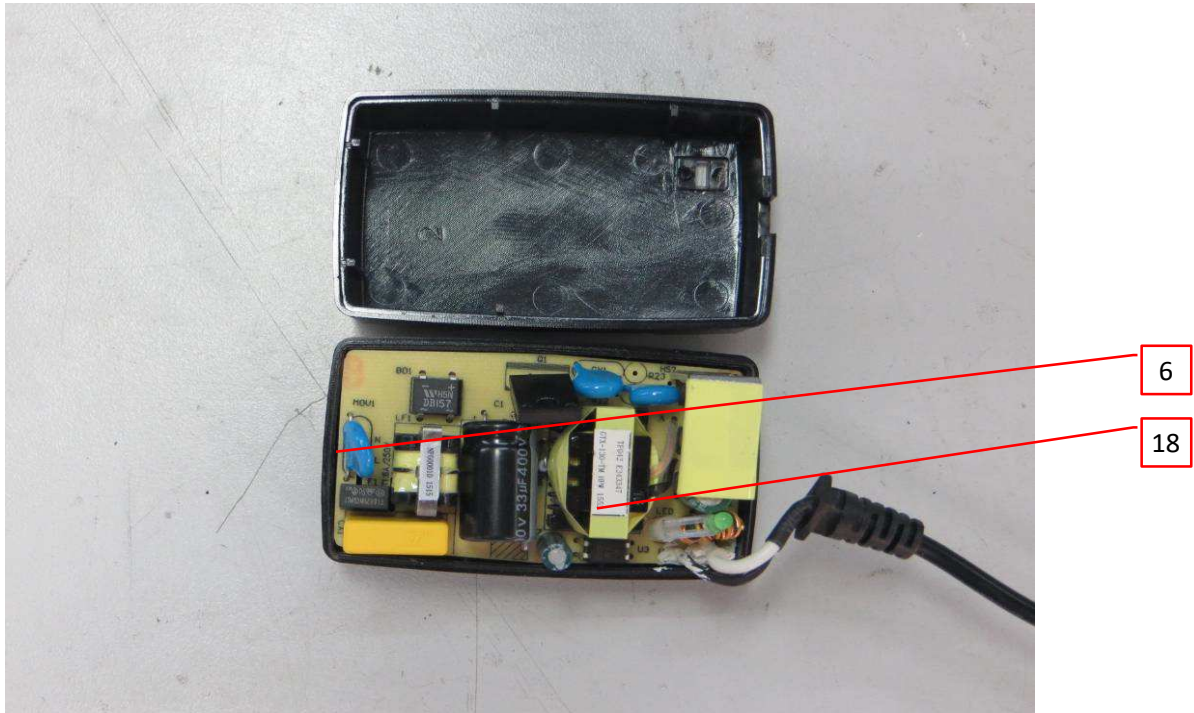


**Photo 12 - PCB for GTM96180 series (Class II)**

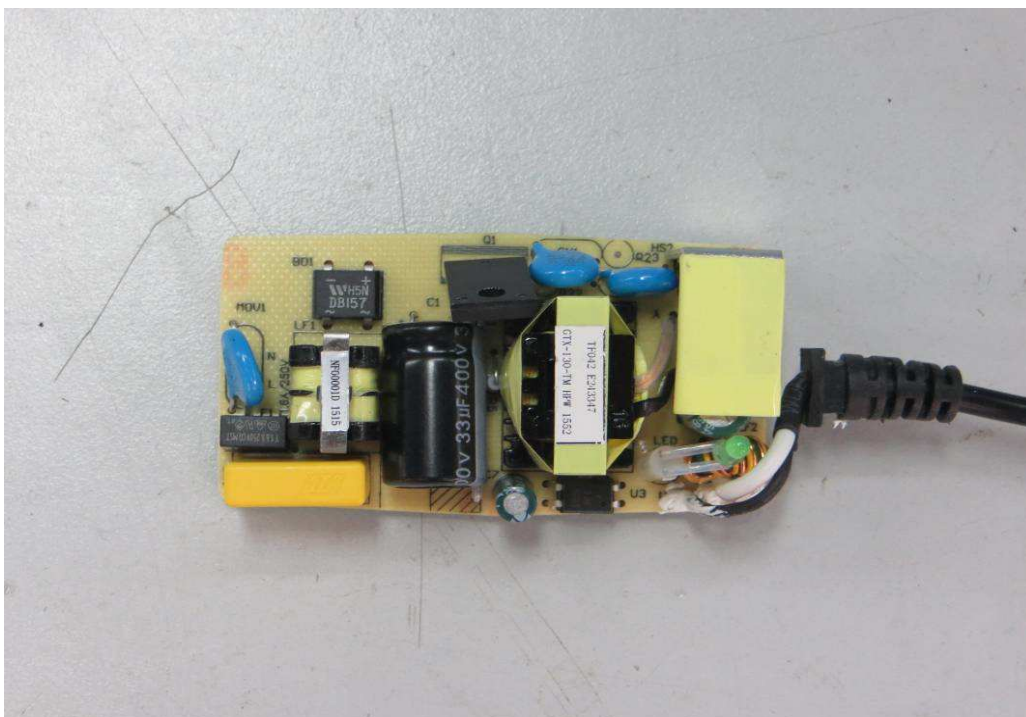


**3.0 Product Photographs**

**Photo 13 - Internal view for GTM96180 series (Interchangeable plug)**

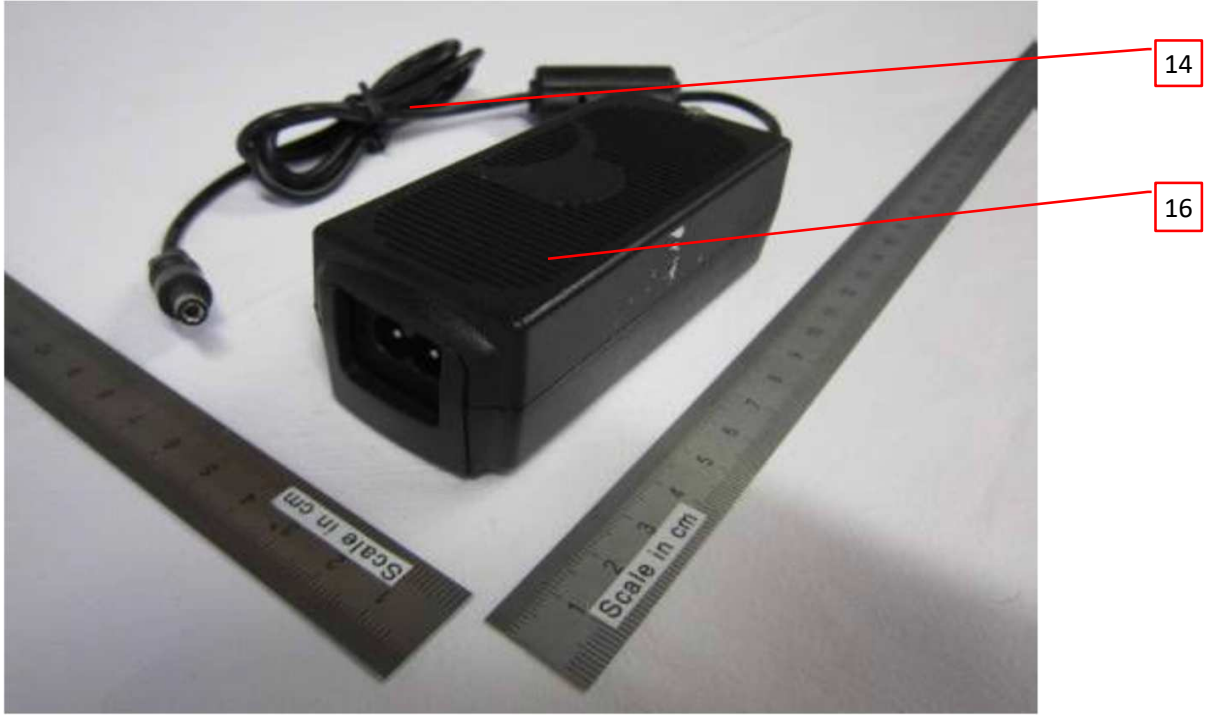


**Photo 14 - PCB for GTM96180 series (Interchangeable plug)**



**3.0 Product Photographs**

**Photo 15 - External view for GTM91120 series**



**Photo 16 - External view for GTM91120 series**



**3.0 Product Photographs**

**Photo 17 - External view for GTM91120 series**



**Photo 18- External view for GTM91120 series**

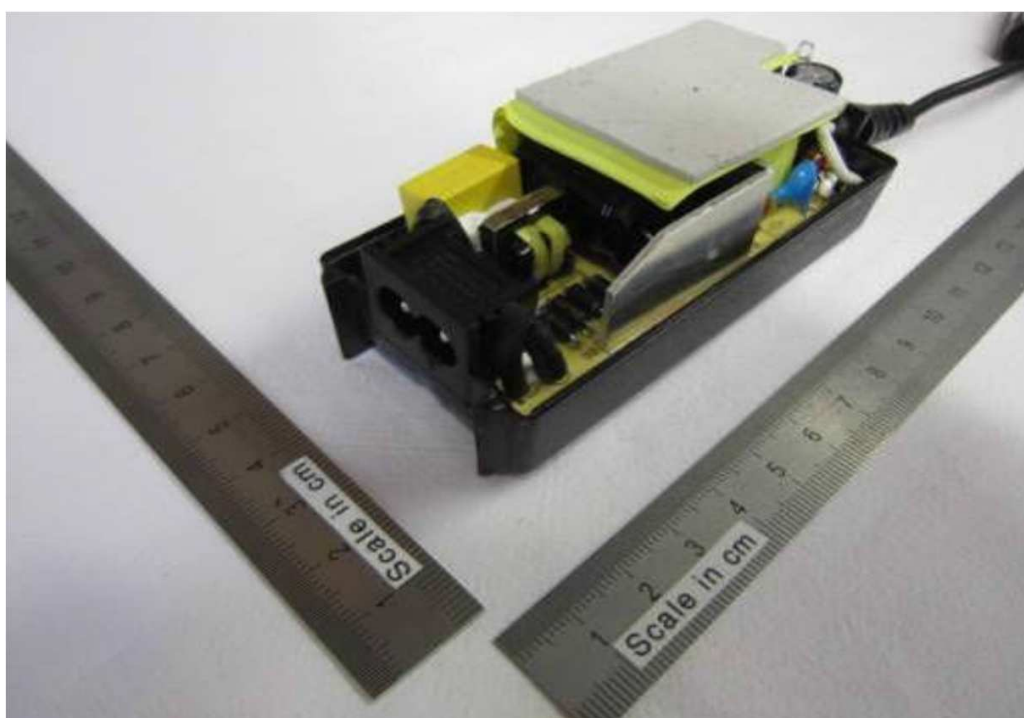


**3.0 Product Photographs**

**Photo 19- Internal view for GTM91120 series**



**Photo 20- Internal view for GTM91120 series**

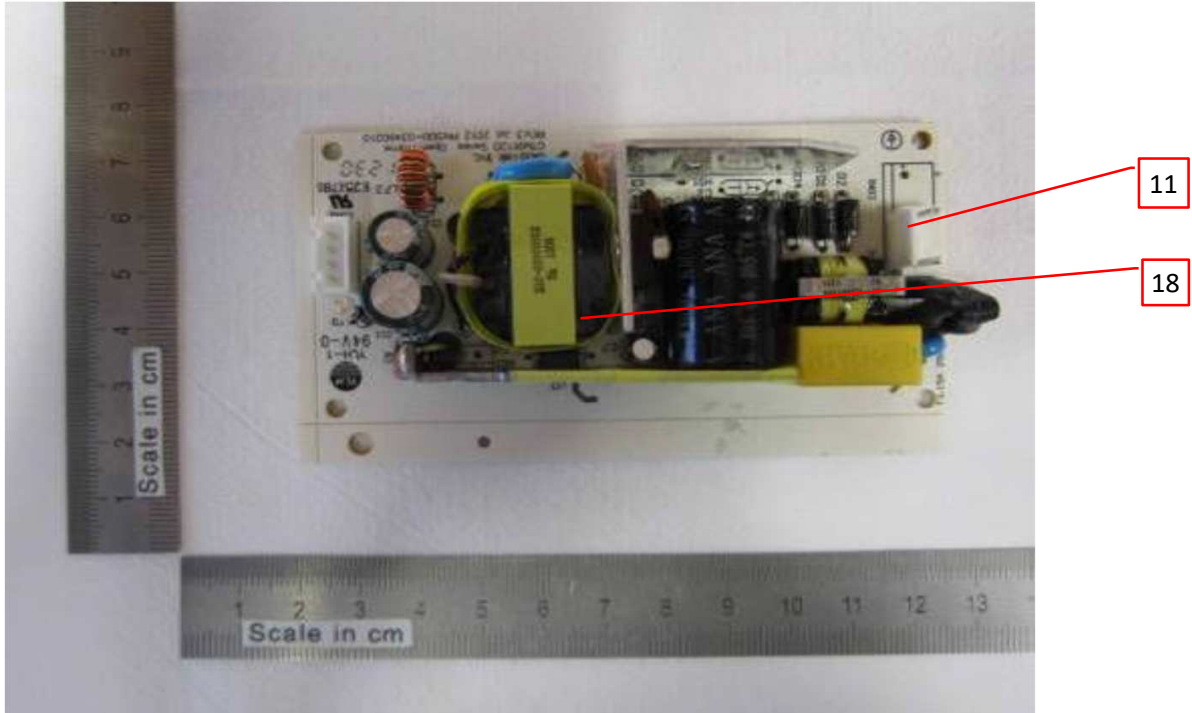






**3.0 Product Photographs**

**Photo 23- External view for GTM91120 series (Open frame)**

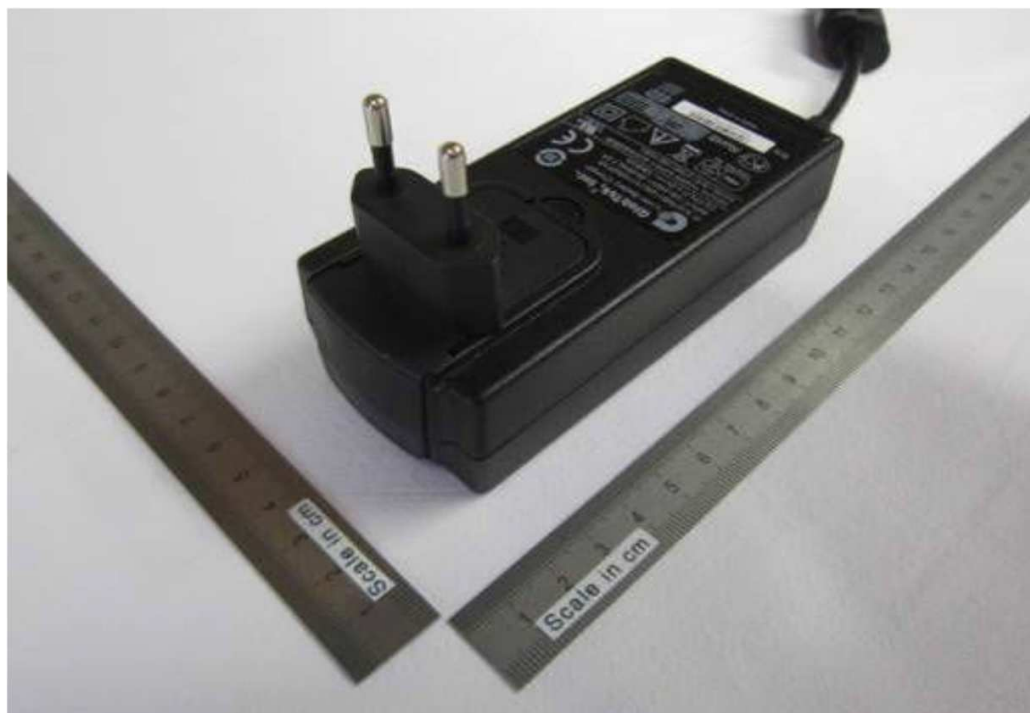


**Photo 24- External view for GTM91128LI1CELL, GTM91128LI2CELL, GTM91128LI3CELL**



**3.0 Product Photographs**

**Photo 25- External view for GTM91128LI1CELL, GTM91128LI2CELL, GTM91128LI3CELL**

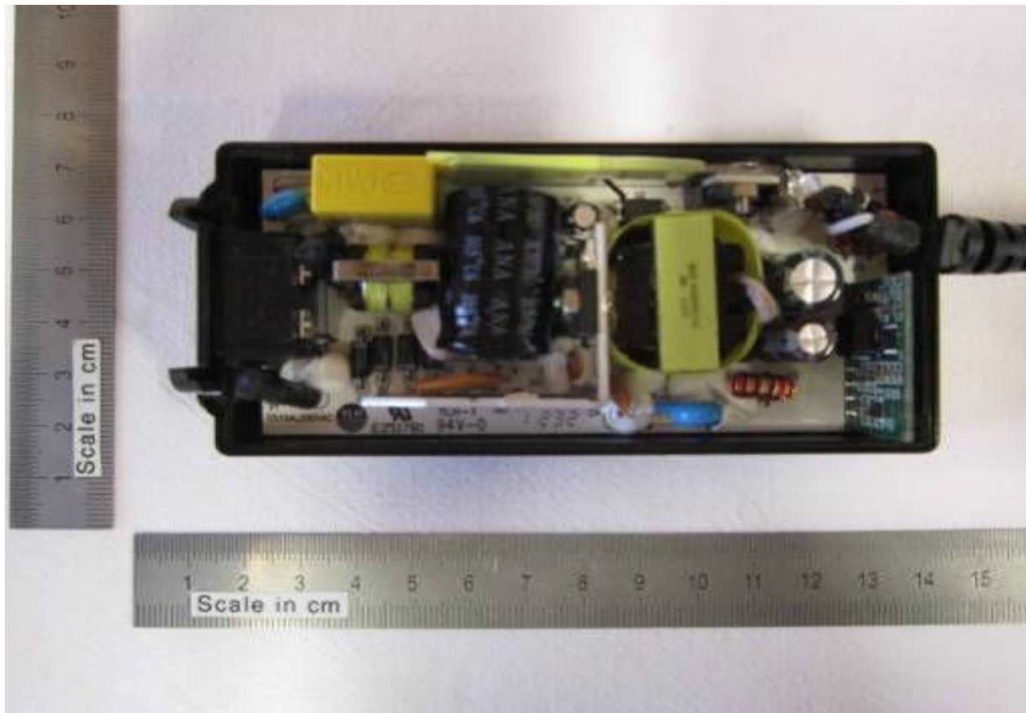


**Photo 26- Internal view for GTM91128LI1CELL, GTM91128LI2CELL, GTM91128LI3CELL**

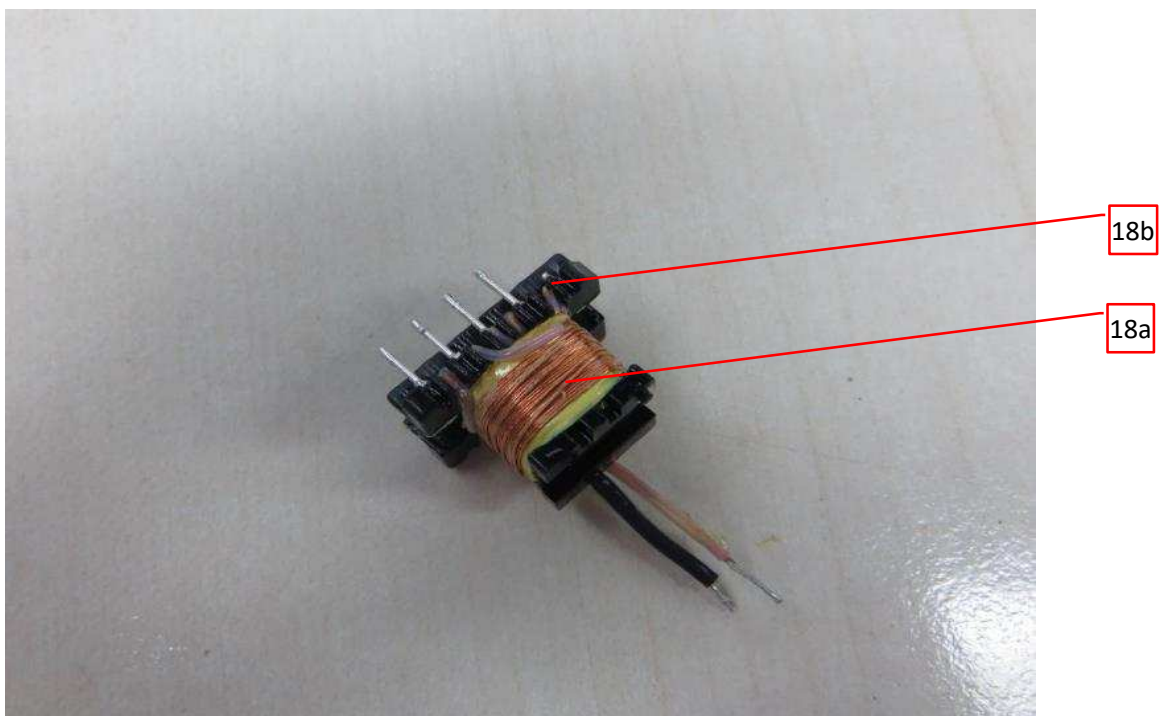


**3.0 Product Photographs**

**Photo 27 - PCB for GTM91128LI1CELL, GTM91128LI2CELL, GTM91128LI3CELL**

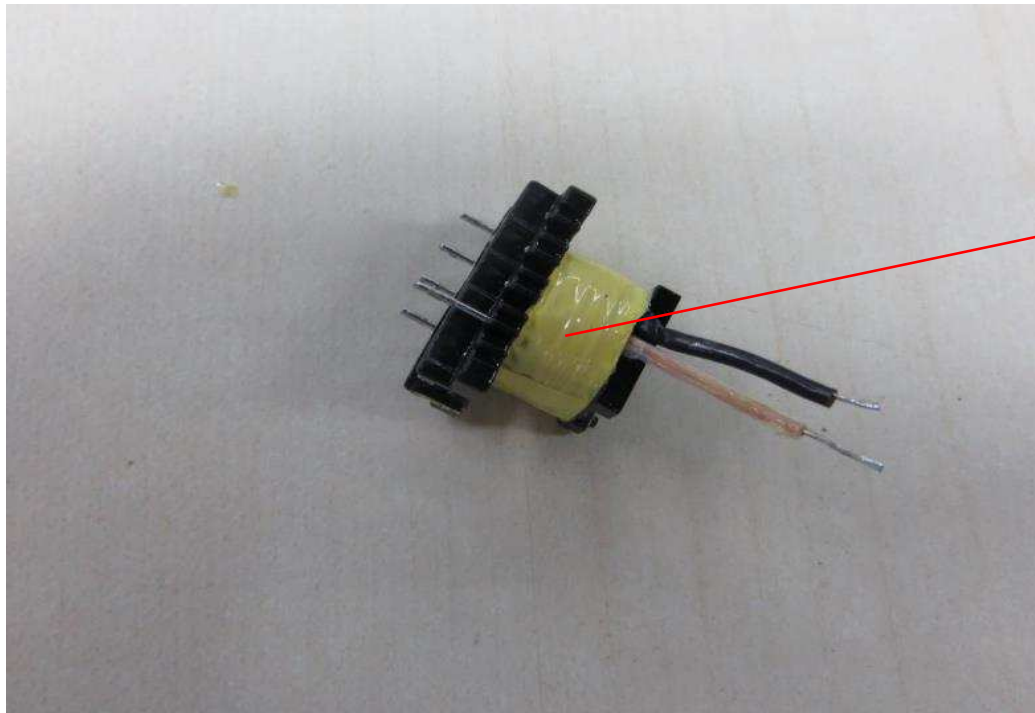


**Photo 28 - Transformer**



**3.0 Product Photographs**

**Photo 29 - Transformer**

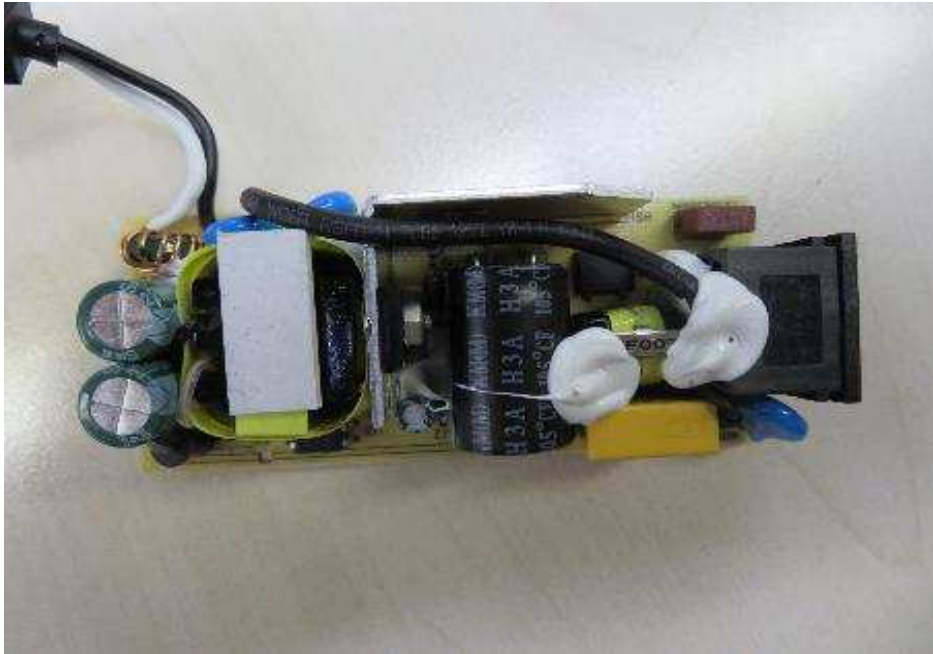


**Photo 30 - PCB view for GTM96300 series (class II with functional earth)**



**3.0 Product Photographs**

**Photo 31 - PCB view for GTM96300 series (class II with functional earth)**



**Photo 32 - Internal view for GTM96180 series (Class I) with R22, R23 and without R24**



**3.0 Product Photographs**

Photo 33 - PCB view for GTM96180 series (Class I) with R22, R23 and without R24

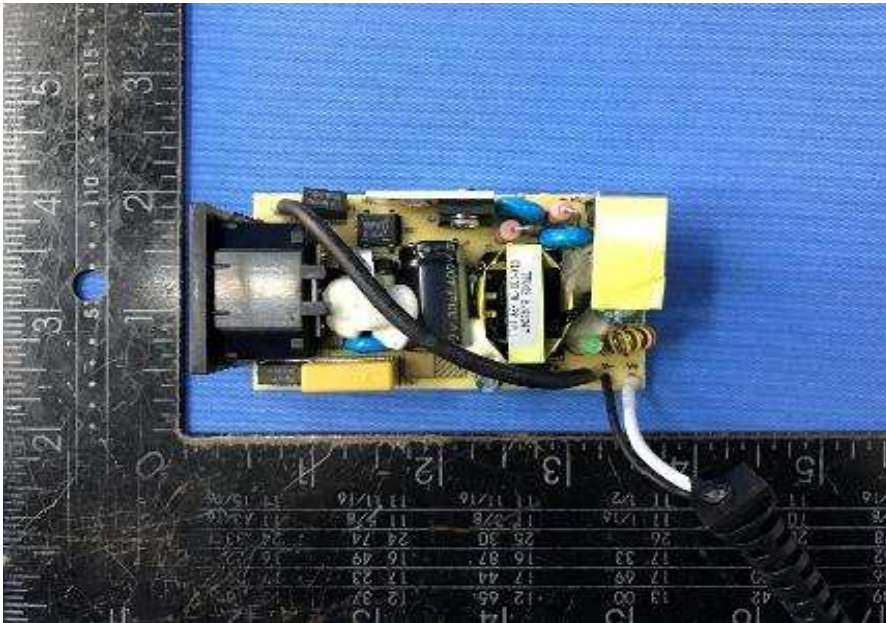
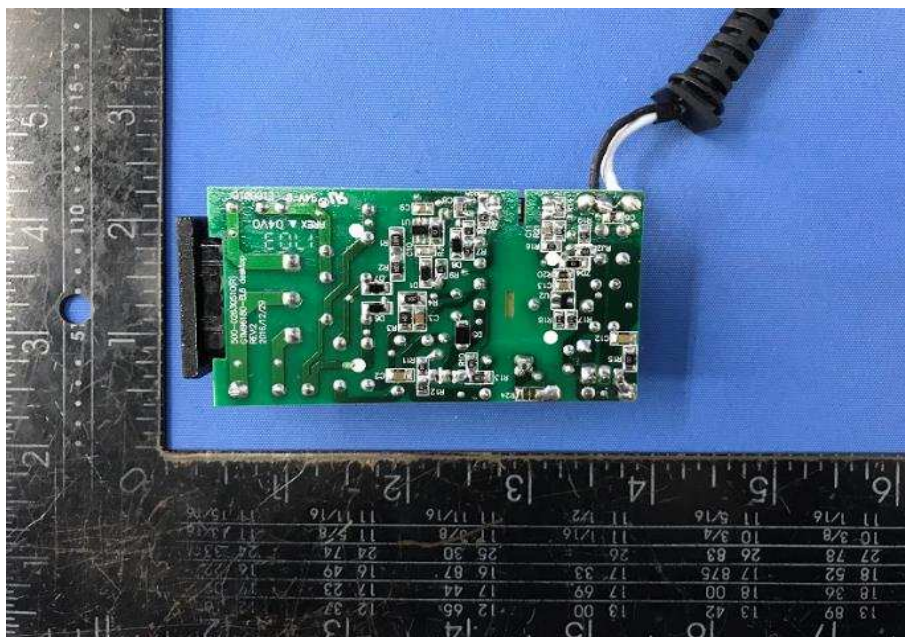


Photo 34 - PCB view for GTM96180 series (Class I) with R22, R23 and without R24

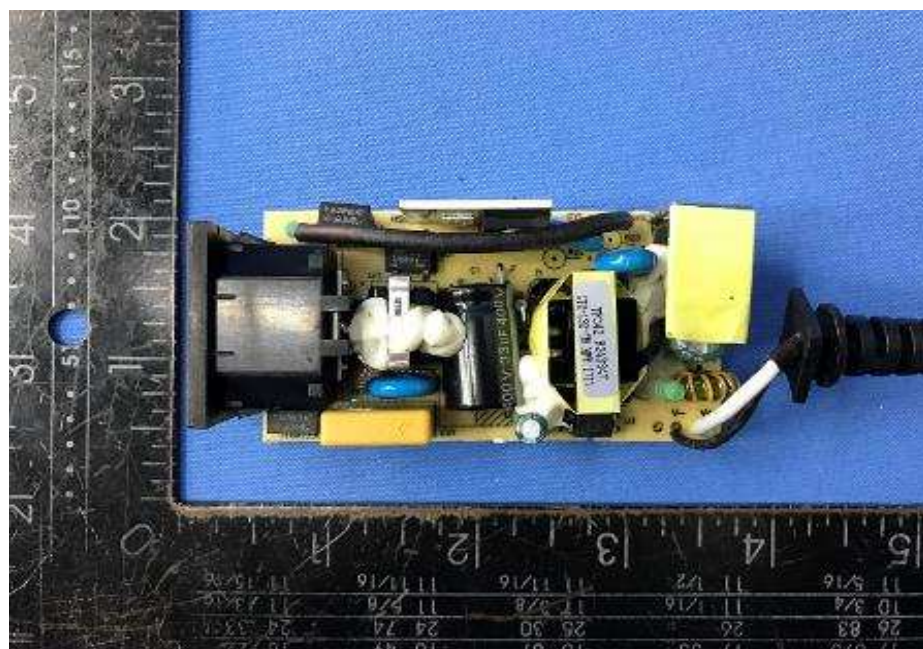


**3.0 Product Photographs**

Photo 35 - Internal view for GTM96180 series (Class I) without R22, R23 and with R24



Photo 36 - PCB view for GTM96180 series (Class I) without R22, R23 and with R24



**3.0 Product Photographs**

Photo 37 - PCB view for GTM96180 series (Class I) without R22, R23 and with R24

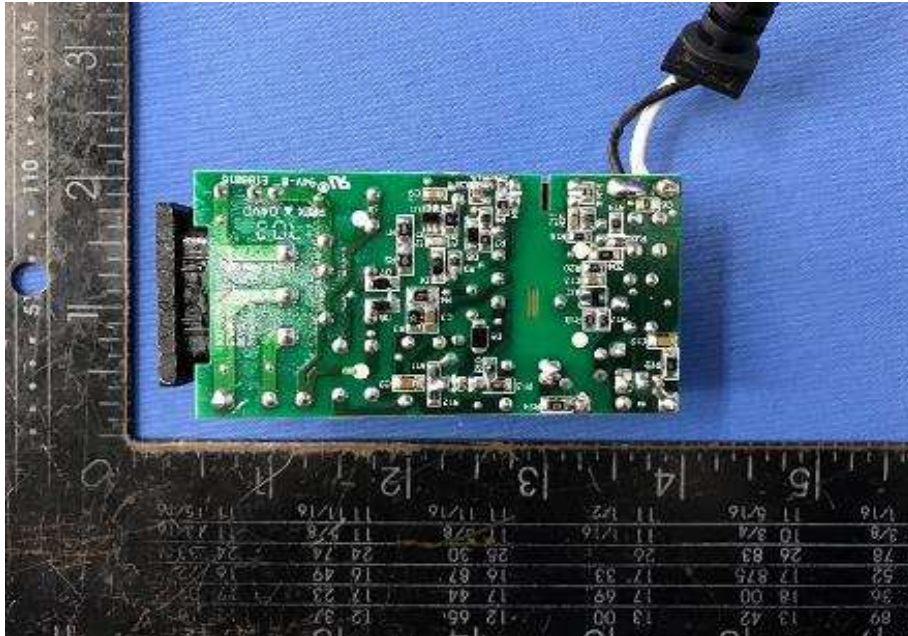


Photo 38 - Internal view for GTM96180 series (Class I) without heatsink for D2





### 3.0 Product Photographs

Photo 39 - PCB view for GTM96180 series (Class I) without heatsink for D2

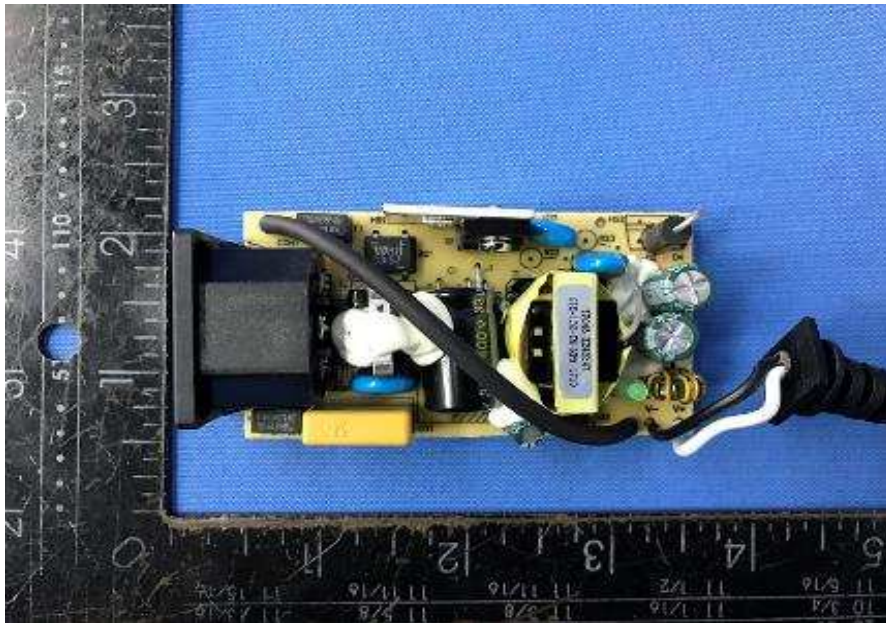
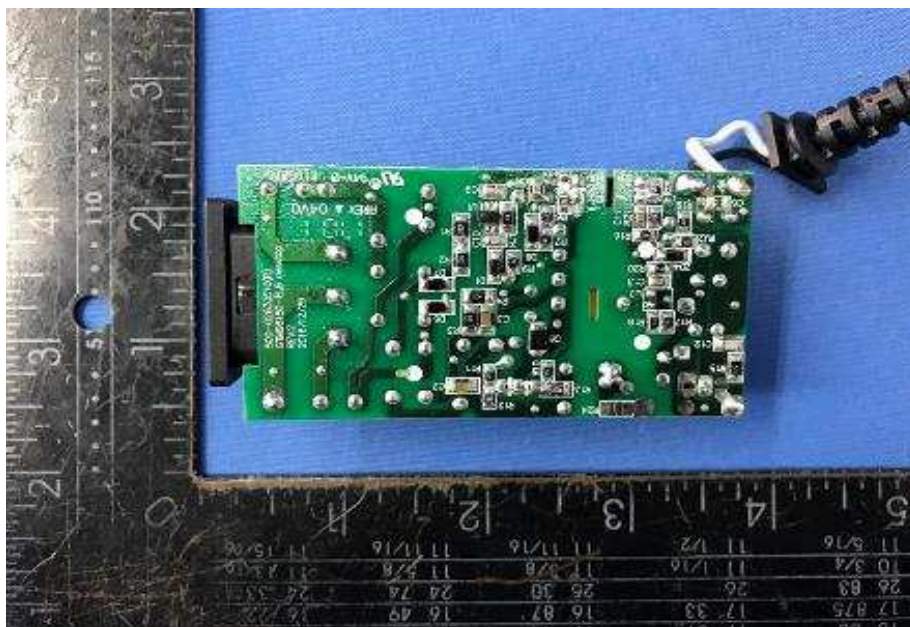


Photo 40 - PCB view for GTM96180 series (Class I) without heatsink for D2

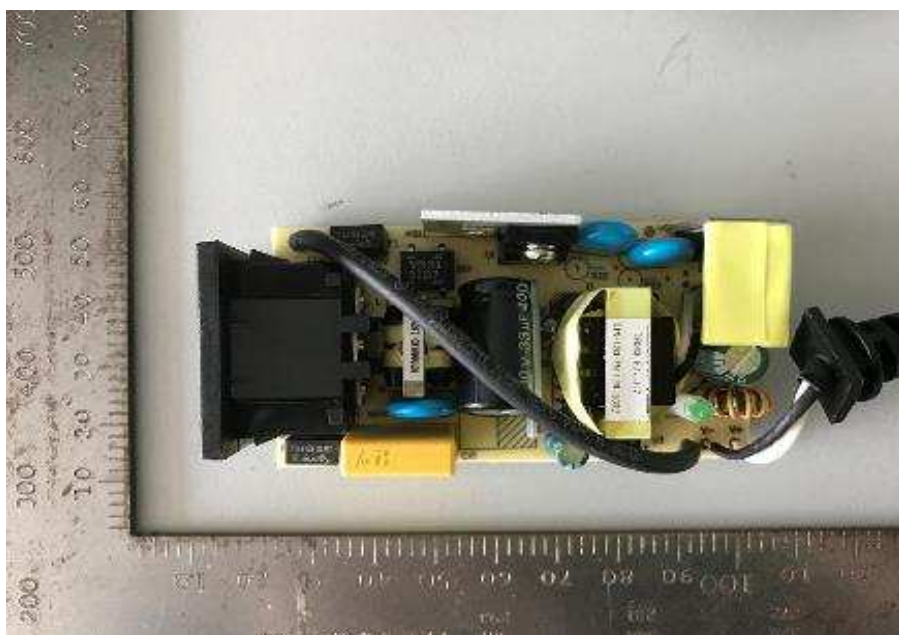


**3.0 Product Photographs**

Photo 41 - Internal view for GTM96180 series (Class I) without R22, R23 and R24



Photo 42 - PCB view for GTM96180 series (Class I) without R22, R23 and R24



**3.0 Product Photographs**

Photo 43 - PCB view for GTM96180 series (Class I) without R22, R23 and R24

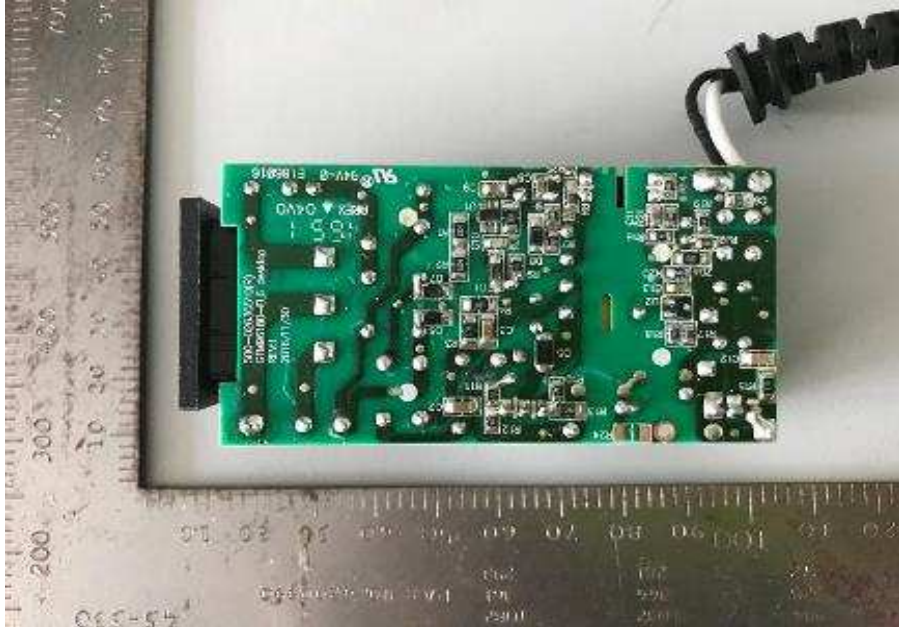


Photo 44 - External view for GTM91128LI3CEL-\*\*\*\* or GTM91128\*CHARGE-\*\*\*\*



### 3.0 Product Photographs

Photo 45 - Internal view for GTM91128LI3CEL-\*\*\*\* or GTM91128\*CHRG-\*\*\*\*

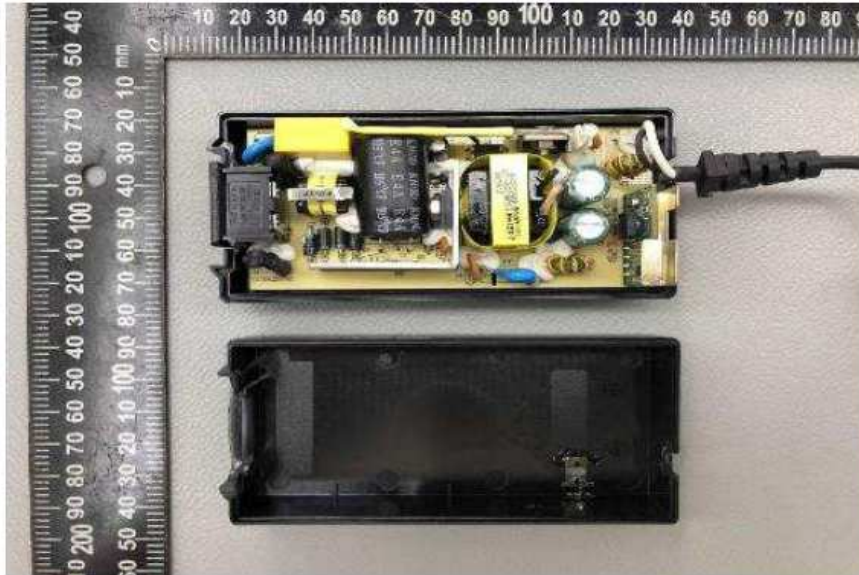
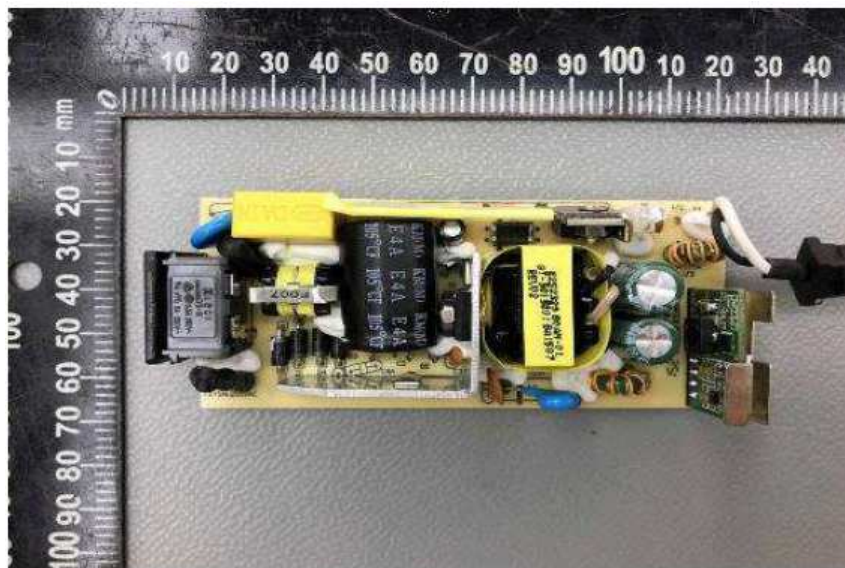


Photo 46 - PCB for GTM91128LI3CEL-\*\*\*\* or GTM91128\*CHRG-\*\*\*\*

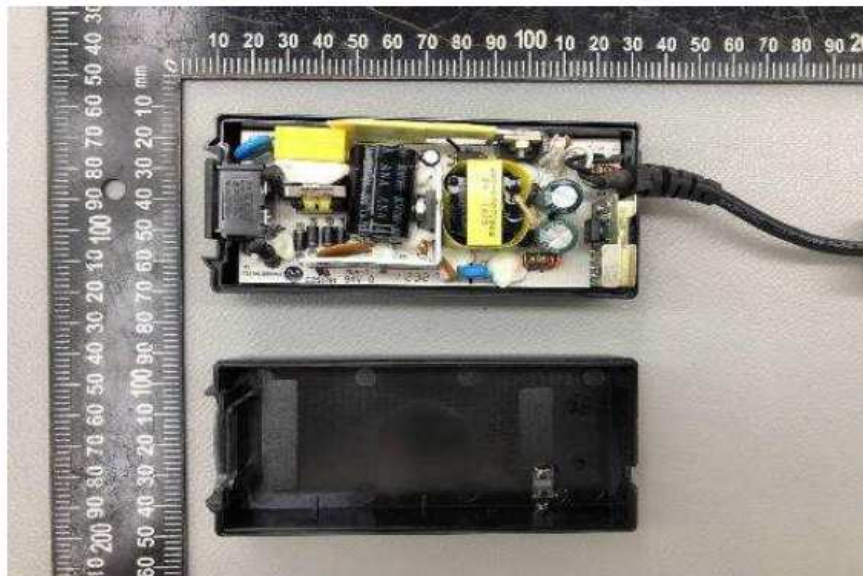


### 3.0 Product Photographs

Photo 47 - External view for GTM91128LI3CELM-\*\*\*\* or GTM91128\*DUALC-\*\*\*\*



Photo 48 - Internal view for GTM91128LI3CELM-\*\*\*\* or GTM91128\*DUALC-\*\*\*\*



**3.0 Product Photographs**

Photo 49 - PCB for GTM91128LI3CELM-\*\*\*\* or GTM91128\*DUALC-\*\*\*\*

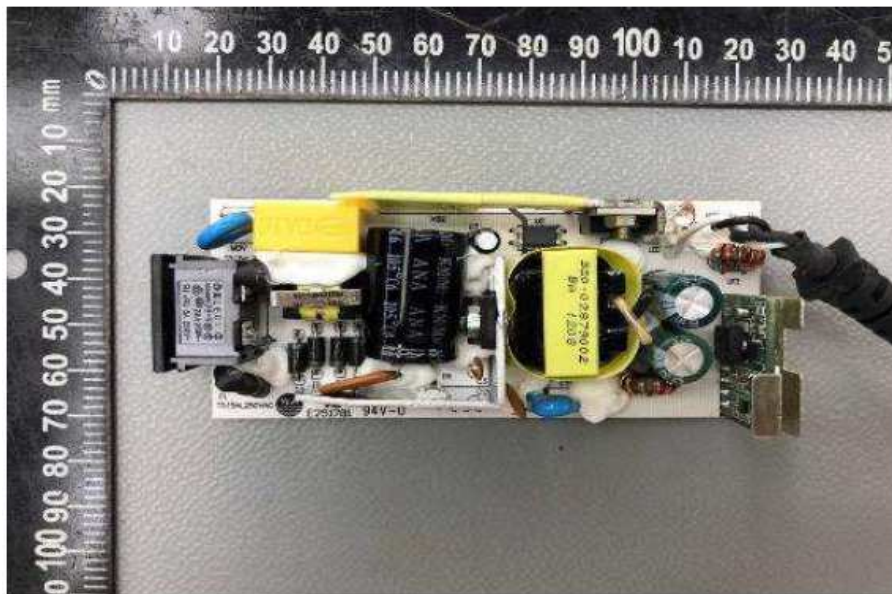


Photo 50 - External view for GTM91128LI1CEL-T2-\*\*\*\* and GTM91128LI1CEL-T2A-\*\*\*\* with desktop enclosure



### 3.0 Product Photographs

Photo 51 - Internal view for GTM91128LI1CEL-T2-\*\*\*\* and GTM91128LI1CEL-T2A-\*\*\*\* with desktop enclosure

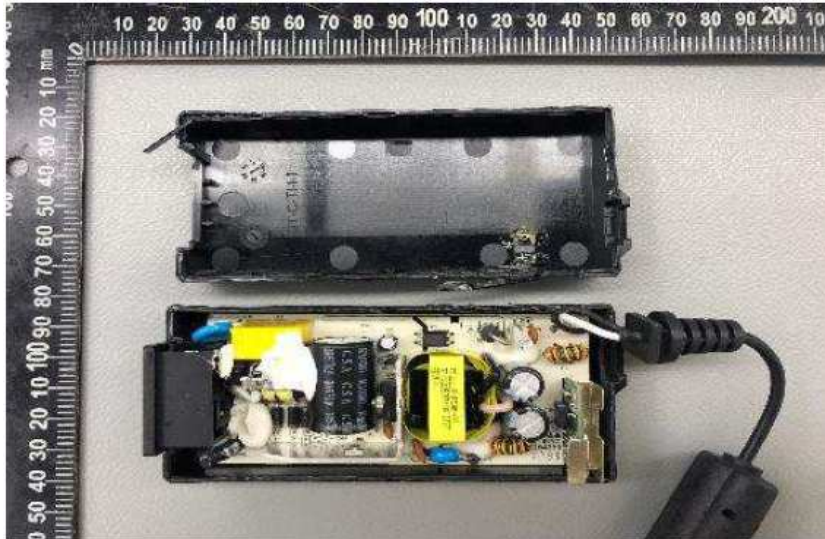
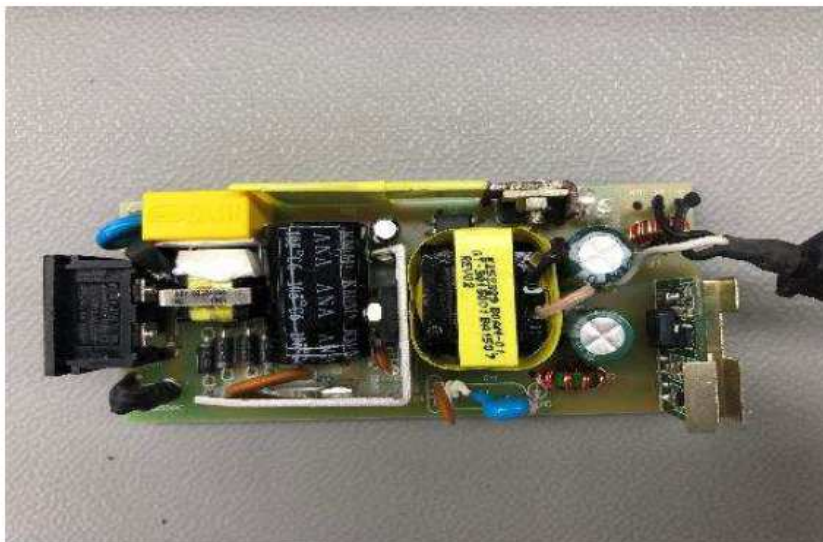


Photo 52 - Alternative PCB layout with 2 LEDs



**3.0 Product Photographs**

Photo 53 - External view for GTM96300 series



Photo 54 - External view for GTM96300 series







### 3.0 Product Photographs

Photo 57 - External view for GTM96300 series



Photo 58 - PCB for GTM96300 series (class II with functional earth)



**3.0 Product Photographs**

**Photo 59 - PCB for GTM96300 series (class II with functional earth)**

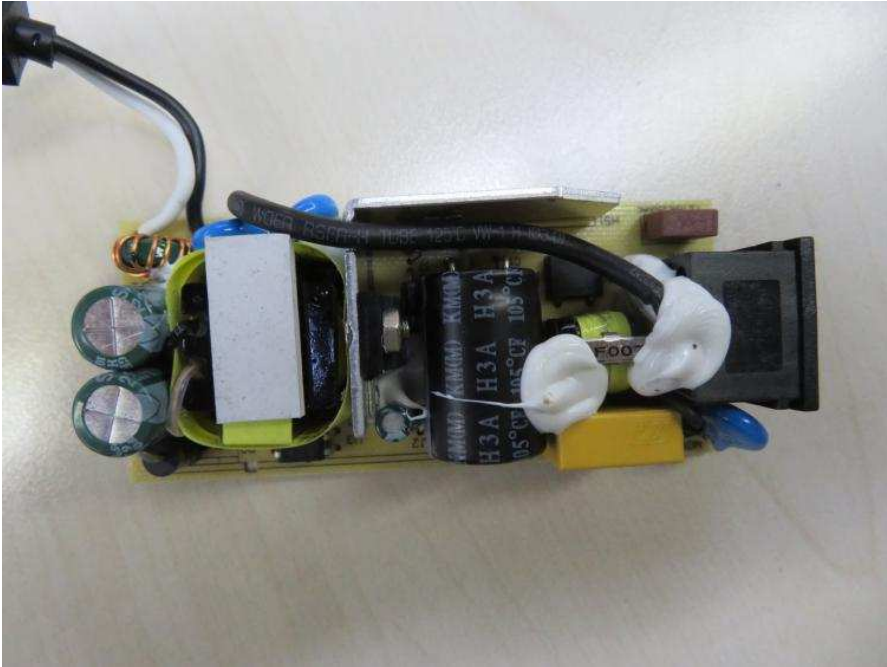


**Photo 60 - PCB for GTM96300 series (class II with functional earth)**

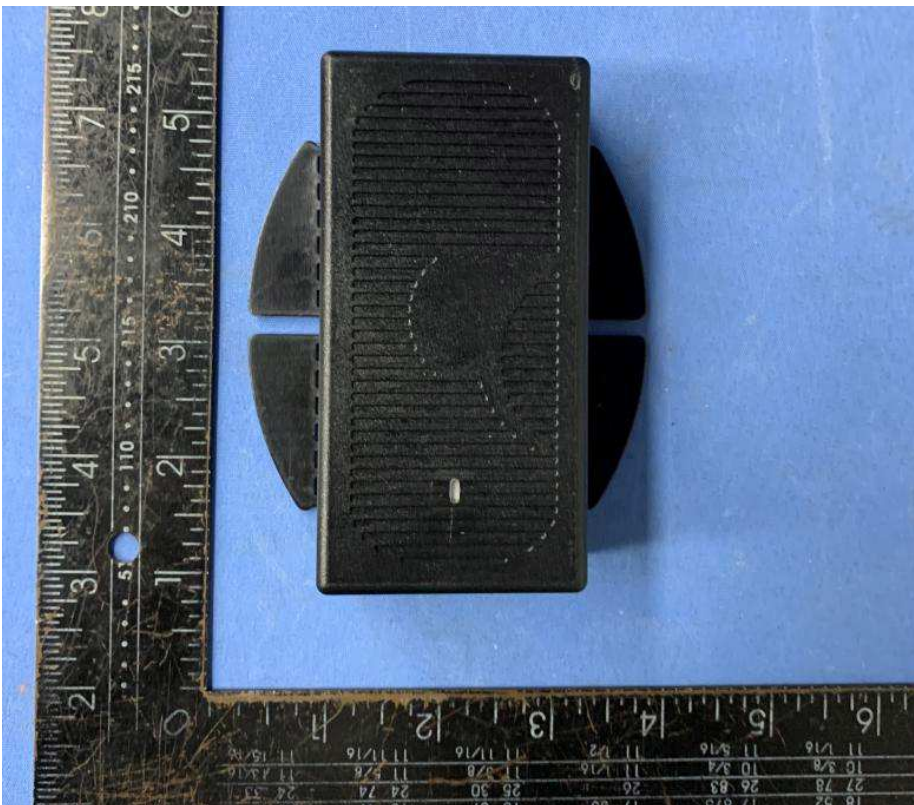


**3.0 Product Photographs**

**Photo 61 - PCB for GTM96300 series (class II with functional earth)**



**Photo 62 - External view for GTM96300 series with POE**



**3.0 Product Photographs**

Photo 63 - External view for GTM96300 series with POE



Photo 64 - External view for GTM96300 series with POE



**3.0 Product Photographs**

Photo 65 - External view for GTM96300 series with POE



Photo 66 - External view for GTM96300 series with POE

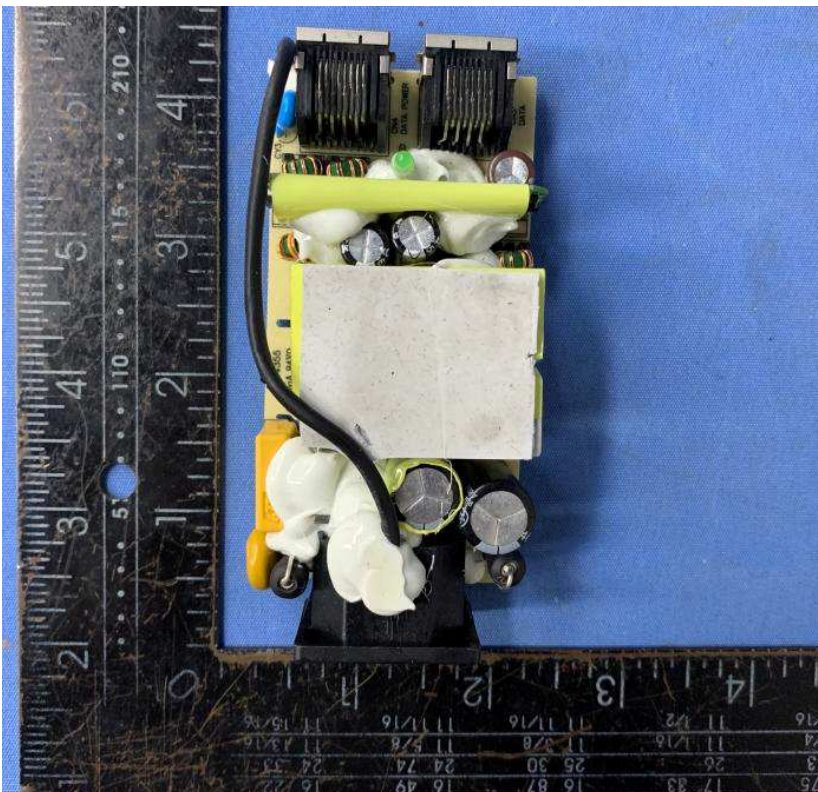


### 3.0 Product Photographs

Photo 67 - External view for GTM96300 series with POE

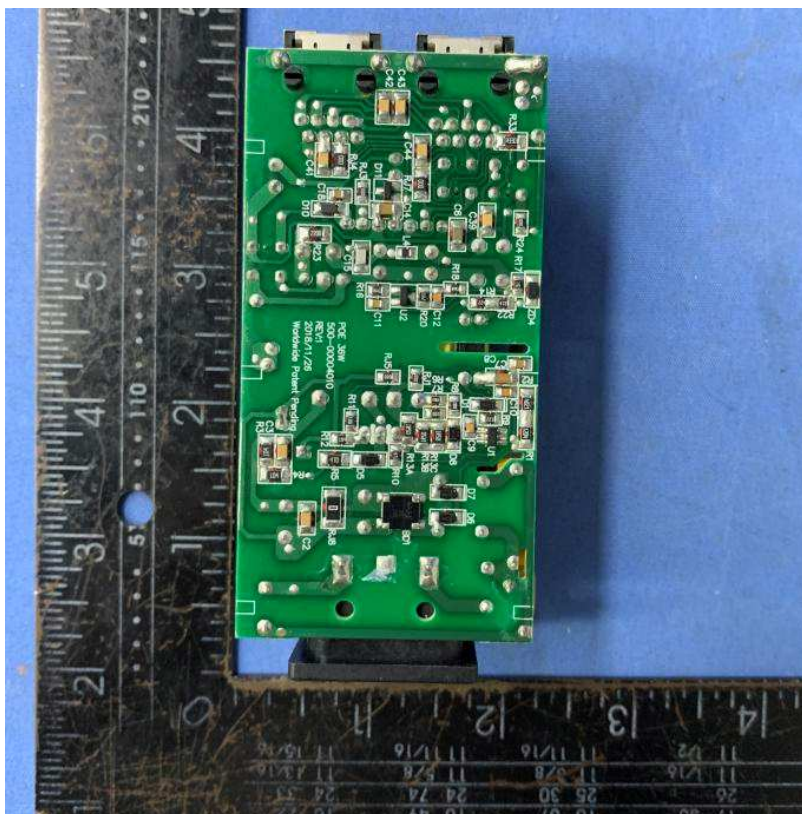


Photo 68 - PCB for GTM96300 series with POE



### 3.0 Product Photographs

Photo 69 - PCB for GTM96300 series with POE





4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
4	1	PCB material	WALEX ELECTRONIC (WUXI) CO LTD	T2	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
				T2A		
				T2B		
				T4		
			GUANGDE BOYA XINXING ELECTRONIC TECHNOLOGY CO LTD	BY-1	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
				2V0		
				FR4		
			CHEERFUL ELECTRONIC (HK) LTD	2	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
				3		
				03A		
			DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
			SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
			DAFENG AREX ELECTRONIC TECHNOLOGY CO LTD	02V0	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
				04V0		
03V0						
BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			
	DGV0-3A					
KUOTIANG ENT LTD	C-2	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			
C-2A						
SHENZHEN TONGCHUANGXI N ELECTRONICS CO LTD	TCX	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			
PACIFIC WIN INDUSTRIAL LTD	PW-02	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			
	PW-03					
YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			
SUZHOU XINKE ELECTRONICS CO LTD	XK-2	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			
	XK-3					
KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	Min. 1,6 mm thickness, min. V-0, 130°C	cURus			

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1,6 mm thickness, min. V-0, 130°C	cURus
			HUIZHOU SHUNJIA ELECTRONICS CO LTD	SJ-B		
			GUANGDE BOYA XINXING ELECTRONIC TECHNOLOGY CO LTD	BY-1		
			Various	Various		
3,6, 10, 12	2	Fuse	Conquer Electronics Co., Ltd.	MST series	T1.6A, 250V(for GTM96180 series); T3.15A, 250V(for GTM96300,91120,91128 series)F1,F2 (F2 is optional)	cURus
			Ever Island Electric Co., Ltd. And Walter Electric	2010		cURus
			Bel Fuse Ltd.	RST-Serie(s)		cURus
			Cooper Bussmann LLC	SS-5		cURus
			Shenzhen Lanson Electronics Co. Ltd.	SMT		cURus
			Das & Sons International Ltd.	385T series		cURus
			Dongguan Better Electronics Technology Co., Ltd.	932		cURus
			Hollyland Company Limited	5ET		cURus
			Sunny East Enterprise Co. Ltd.	CFD-Serie(s)		cURus
			Conquer Electronics Co., Ltd.	MET series		cURus
			Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 Serie(s)		cURus
			TDK-EPC Corporation, Capacitors Group	CD	Y1, AC250V, max 2200pF, 25/085/21/B (CY1, CY2)	cURus

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
3,6, 10, 12	3	Y capacitor (optional)	Success Electronics Co., Ltd.	SE	Y1, Min. AC250V, or AC500V, max 2200pF, 40/125/56/C (CY1, CY2)	cURus
			Success Electronics Co., Ltd.	SB	Y1, Min.AC250V, max 2200pF, 40/125/56/C (CY1, CY2)	cURus
			Murata Mfg. Co., Ltd.	KX	Y1, AC250V, max 2200pF, 25/125/21/B (CY1, CY2)	cURus
			Walsin Technology Corp.	AH	Y1, AC250V, max 2200pF, 25/125/21/C (CY1, CY2)	cURus
			JYA-NAY Co., Ltd.	JN	Y1, AC250V, max 2200pF, 25/125/21/C (CY1, CY2)	cURus
			Haohua Electronic Co.	CT 7	Y1, AC250V, max 2200pF, 30/125/56/C (CY1, CY2)	cURus
			Jyh Chung Electronic Co., Ltd.	JD	Y1, AC250V, max 2200pF, 40/085/21/C (CY1, CY2)	cURus
			Jerro Electronics Corp.	JX-series	Y1, AC250V, max 2200pF, 40/125/21/C (CY1, CY2)	cURus
3,6, 10, 12	4	X capacitor (optional)	Cheng Tung Industrial Co., Ltd.	CTX	Min. 300VAC, Max. 0.47μF, 110 °C, X1 or X2 (CX1)	cURus
			Tenta Electric Industrial Co. Ltd.	MEX	Min. 250VAC, Max. 0.47μF, 40/100/21/B, X1 or X2 (CX1)	cURus
			Joey Electronics (Dong Guan) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/105/21/B, X1 or X2 (CX1)	cURus
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2 (CX1)	cURus
			Yuon Yu Electronics Co. Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2 (CX1)	cURus
			Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2 (CX1)	cURus
			Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2 (CX1)	cURus
			Dain Electronics Co., Ltd.	MEX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2 (CX1)	cURus
				MPX		
NPX						
Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Min. 250VAC, Max. 0.47μF, 40/110/56/B, X1 or X2 (CX1)	cURus			

4.0 Critical Components											
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>					
3,6, 10, 12	5	Photo coupler	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm Int. , dcr=6.0mm EXT.dcr=7.7mm, thermal cycling test,110°C U2/U3, U2 for GTM91120 and GTM91128 series	cURus					
			COSMO Electronics Corporation	K1010	KP1010	Dti=0.6mm Int. ,dcr=4.0mm EXT.dcr=5.0mm, thermal cycling test,115°C U2/U3, U2 for GTM91120 and GTM91128 series	cURus				
				Lite-On Technology Corporation				LTV-817	Dti=0.8mm Int. , EXT.dcr=7.8mm, thermal cycling test,110°C U2/U3, U2 for GTM91120 and GTM91128 series	cURus	
			Fairchild Semiconductor Pte Ltd.	H11A817B	FOD817B	Insulation voltage: 850V; Transient overvoltage: 6000V; CT1175; Int. Cr/ Ext. Cr: ≥7,0/ 7,0 mm; 30/110/21 U2/U3, U2 for GTM91120 and GTM91128 series	cURus				
				Sharp Corporation Electronic Components and Devices Group				PC817	Insulation voltage: 890V; Transient overvoltage: 9000V Int. Cr/ Ext. Cr: 7.62/ 7.62 mm; 30/100/21 U2/U3, U2 for GTM91120 and GTM91128 series	cURus	
			Bright Led Electronics Corp.	BPC-817 A	BPC-817 B BPC-817 C BPC-817 D BPC-817 L BPC-817 M BPC-817 S	Dti=0.4mm EXT.dcr=7.0mm, thermal cycling test,110°C U2/U3, U2 for GTM91120 and GTM91128 series	cURus				
				Toshiba Corporation				TLP781F	Dti > 0.4mm, Ext cr > 8.0mm, Isolation 3000Vac min., 110°C min., Thermal cycling test U2 for GTM91120 and GTM91128 series	cURus	
				Thinking Electronic Industrial Co., Ltd.				TVR10471K	TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0 MOV/MOV1(MOV for GTM91120,GTM91128 series)	cURus
								Centra Science Corp.			
									14D471K		

4.0 Critical Components									
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>			
9,1 1,1 3	6	Varistor (optional)	Success Electronics Co., Ltd.	SVR10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0 MOV/MOV1(MOV for GTM91120,GTM91128 series)	cURus			
				SVR14D471K					
			Walsin Technology Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0 MOV/MOV1(MOV for GTM91120,GTM91128 series)	cURus			
							Lien Shun Electronics Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0 MOV/MOV1(MOV for GTM91120,GTM91128 series)
			Ceramate Techn. Co., Ltd.	GNR10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0 MOV/MOV1(MOV for GTM91120,GTM91128 series)	cURus			
				GNR14D471K					
			Brightking (Shenzhen) Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms) MOV/MOV1(MOV for GTM91120,GTM91128 series)	cURus			
				10D471K					
			Joyin Co., Ltd.	JVR10N471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0 MOV/MOV1(MOV for GTM91120,GTM91128 series)	cURus			
				JVR14N471K					
			2	7	Appliance inlet	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac,CON1 Class I units	cURus
						Rich Bay Co., Ltd.	R-30790		
Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02								
TECX-UNIONS Technology Corporation	TU-333								
Rong Feng Industrial Co., Ltd.	RF-190								
Inalways Corporation	0724								
Zhe Jiang Bei Er jia	ST-A04-002								

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-2	2.5A, 250Vac, CON1 Class I units	cURus
9	8	Appliance inlet	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac, CON1 Class I units	cURus
			Rich Bay Co., Ltd.	R-301SN	10A, 250Vac, CON1 Class I units	cURus
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac, CON1 Class I units	cURus
			TECX-UNIONS Technology Corporation	TU-301-S	10A, 250Vac, CON1 Class I units	cURus
				TU-301-SP	10A, 250Vac, CON1 Class I units	
			Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac, CON1 Class I units	cURus
			Inalways Corporation	0711	10A, 250Vac, CON1 Class I units	cURus
Zhe Jiang Bei Er jia	ST-A01-003J	10A, 250Vac, CON1 Class I units	cURus			
5	9	Appliance inlet	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac, CON1 Class II units	cURus
			Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac, CON1 Class II units	cURus
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac, CON1 Class II units	cURus
			TECX-UNIONS Technology Corporation	SO-222	2.5A, 250Vac, CON1 Class II units	cURus
			Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac, CON1 Class II units	cURus
			Inalways Corporation	0721	2.5A, 250Vac, CON1 Class II units	cURus
			Zhe Jiang Bei Er jia	ST-A03-005	2.5A, 250Vac, CON1 Class II units	cURus
			Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-8	2.5A, 250Vac, CON1 Class II units	cURus
1	10	Appliance inlet (not shown)	HCR ELECTRONICS CO., LTD	SK05	10A, 250Vac, CON1, Class II unit	cURus
			Rong Feng Industrial Co., Ltd	SS-120	10A, 250Vac, CON1, Class II unit	cURus
			NELTRON INDUSTRIAL CO LTD	2114S	Min 240V; Min 1.5A; Flame class min. V--2;(for open frame)	cURus

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
23	11	Input connector CON1	JOINT TECH ELECTRONIC INDUSTRIAL CO LTD	A7920 series	Min 250V; Min 7A; Flame class min. V--2;(for open frame)	cURus
				A3960 series		
			ZHEJIANG HONGXING ELECTRICAL CO LTD	HX396XX-YYY series	Min 250V; Min 5A; Flame class min. V--2;(for open frame)	cURus
3,10	12	Earthing wire	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C (for Class I model)	cURus
				1007		
				1185		
			ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
			DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
			YONG HAO ELECTRICAL INDUSTRY CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
			SHENG YU ENTERPRISE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
			KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
			SUZHOU YEMAO ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus
				1007		
				1185		
		Various	Various	Min. 20 AWG, Min. 300V, Min. 80°C(for Class I model)	cURus	
		KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus	
			2468			

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
22	13	Connection wiring	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus
				2468		
			DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus
				2468		
			YONG HAO ELECTRICAL INDUSTRY CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus
				2468		
			DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus
				2468		
			SHENG YU ENTERPRISE CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus
				2468		
SUZHOU HONGMENG ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus			
	2468					
SUZHOU YEMAO ELECTRONIC CO LTD	1015	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus			
	2468					
		Various	Various	Min. 20 AWG, Min. 300V, Min. 80°C(for encapsulated model)	cURus	
1,7,15	14	Output cord	Various	Various	Min. 24AWG, min. 300Vac, min. 80°C (for desktop or potted model)	cURus
3,10	15	Heat-shrinkable tubing	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR-H	600V, 125°C	cURus
				RSFR		
				RSFR-HPF		
			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						
		GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 Series	Min. 300V, 125°C	cURus	



4.0 Critical Components									
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>			
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	cURus			
1,7, 15	16	Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X	PPE+PS, Min. V-1, Min. thickness:2.0mm, 105°C	cURus			
				SE1					
				SE100	PPE+PS, Min. V-1, Min. thickness:2.0mm, 95°C	cURus			
				C2950	PC/ABS, Min. V-0, Min. thickness:2.0mm, 85°C	cURus			
				CX7211	PC/ABS, Min. V-1, Min. thickness:2.0mm, 90°C	cURus			
				EXCY0098					
				945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	cURus			
				HF500R	PC, V-0, Min. thickness:2.0mm, 125°C	cURus			
				SE100	PPE+PS, Min. V-1, Min. thickness:2.0mm, 95°C	cURus			
				SE1X					
				SE1					
				C2950	PC/ABS, Min. V-0, Min. thickness:2.0mm, 85°C	cURus			
				CX7211	PC/ABS, Min. V-1, Min. thickness:2.0mm, 90°C	cURus			
				EXCY0098					
			945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	cURus				
			HF500R	PC, V-0, Min. thickness:2.0mm, 125°C	cURus				
						SABIC JAPAN L L C	SE1X	PPE+PS, Min. V-1, Min. thickness:2.0mm, 105°C	cURus
							SE1		
							SE100	PPE+PS, Min. V-1, Min. thickness:2.0mm, 95°C	cURus
							C2950	PC/ABS, Min. V-0, Min. thickness:2.0mm, 85°C	cURus
							CX7211	PC/ABS, Min. V-1, Min. thickness:2.0mm, 90°C	cURus
							EXCY0098		
							945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	cURus
							HF500R	PC, V-0, Min. thickness:2.0mm, 125°C	cURus
							SE100	PPE+PS, Min. V-1, Min. thickness:2.0mm, 95°C	cURus
							SE1X		
			SE1						
			C2950	PC/ABS, Min. V-0, Min. thickness:2.0mm, 85°C	cURus				
			CX7211	PC/ABS, Min. V-1, Min. thickness:2.0mm, 90°C	cURus				
			EXCY0098						
			945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	cURus				
			HF500R	PC, V-0, Min. thickness:2.0mm, 125°C	cURus				

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	PC, Min. V-0, Min. thickness:2.0mm, 115°C	cURus
3	17	Triple-insulated wire (not shown)	Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	cURus
			COSMOLINK CO. Ltd.	TIW-M Serie(s)	Class B, reinforced insulation	
			Furukawa Electric Co., Ltd.	TEX-E	Class B, reinforced insulation	
			TOTOKU ELECTRIC CO LTD	TIW-2	Reinforced insulation, rated 130° C (Class B)	
			E&B TECHNOLOGY CO LTD	E&B-XXXB	Reinforced insulation, Class B	
				E&B-XXXB-1		
			CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW	Reinforced insulation, Class B	
SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	Reinforced insulation, Class B				
				GT-3005001	Input 100-240Vac, Output 5-7.5V, Class B GTM91120 series; GTM91128LI*CEL**_****; GTM91128***_**** series(5.0-7.5V for power supply output, 3.2V-5.9V for charger output); GTM91128LI1CEL	
				GT-3009001	Input 100-240Vac, Output 7.6V- 10.5V, Class B GTM91120 series	
				GT-3012001	Input 100-240Vac, Output 10.6V- 14.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***_**** series (7.6-12V for power supply output, 6.0V-8.9V for charger) GTM91128LI2CEL	
				GT-3015001	Input 100-240Vac, Output 14.6V- 19.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***_**** series (12.1-14V for power supply output, 9.0V-12.6V for charger output) GTM91128LI3CEL	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			GlobTek	GT-3024001	Input 100-240Vac, Output 19.6V-24V, Class B GTM91120 series	cURus
				GT-3048001	Input 100-240Vac, Output 24.1V-48V, Class B GTM91120 series	
				TF038	Input 100-240Vac, Output 5-8.9V, Class B GTM96300	
				TF057	Input 100-240Vac, Output 9-11.9V, Class B GTM96300	
				TF039	Input 100-240Vac, Output 12-14.9V, Class B GTM96300	
				TF040	Input 100-240Vac, Output 15-24V, Class B GTM96300	
				TF041	Input 100-240Vac, Output 24.1-48V, Class B GTM96300	
				TF042	Input 100-240Vac, Output 5V-8V, Class B, GTM96180	
				TF043	Input 100-240Vac, Output 8.1V-14.9V, Class B, GTM96180	
				TF044	Input 100-240Vac, Output 15V-18.9V, Class B, GTM96180	
				TF045	Input 100-240Vac, Output 19V-30V, Class B, GTM96180	
				TF046	Input 100-240Vac, Output 30.1V-48V, Class B, GTM96180	
				TF068	Input 100-240Vac, Output 18V, Class B GTM96300 POE	
				TF069	Input 100-240Vac, Output 24V, Class B GTM96300 POE	
				TF070	Input 100-240Vac, Output 36V, Class B GTM96300 POE	
				TF071	Input 100-240Vac, Output 48V, Class B GTM96300 POE	
				TF051	Input 100-240Vac, Output 54V, 56V, Class B GTM96300 POE	
				TF064	Input 100-240Vac, Output 18V, Class B GTM96180 POE	
				TF065	Input 100-240Vac, Output 24V, Class B GTM96180 POE	
			TF066	Input 100-240Vac, Output 36V, Class B GTM96180 POE		

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
				TF067	Input 100-240Vac, Output 48V, Class B GTM96180 POE	
				TF063	Input 100-240Vac, Output 54V, 56V, Class B GTM96180 POE	
			BOAM	GT-3005001	Input 100-240Vac, Output 5-7.5V, Class B GTM91120 series; GTM91128LI*CEL**_****; GTM91128***-**** series(5.0-7.5V for power supply output, 3.2V-5.9V for charger output); GTM91128LI1CEL	cURus
				GT-3009001	Input 100-240Vac, Output 7.6V-10.5V, Class B GTM91120 series	
				GT-3012001	Input 100-240Vac, Output 10.6V-14.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***-**** series (7.6-12V for power supply output, 6.0V-8.9V for charger) GTM91128LI2CEL	
				GT-3015001	Input 100-240Vac, Output 14.6V-19.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***-**** series (12.1-14V for power supply output, 9.0V-12.6V for charger output) GTM91128LI3CEL	
				GT-3024001	Input 100-240Vac, Output 19.6V-24V, Class B GTM91120 series	
				GT-3048001	Input 100-240Vac, Output 24.1V-48V, Class B GTM91120 series	
				TF038	Input 100-240Vac, Output 5-8.9V, Class B GTM96300	
				TF057	Input 100-240Vac, Output 9-11.9V, Class B GTM96300	
				TF039	Input 100-240Vac, Output 12-14.9V, Class B GTM96300	
				TF040	Input 100-240Vac, Output 15-24V, Class B GTM96300	
				TF041	Input 100-240Vac, Output 24.1-48V, Class B GTM96300	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
				TF042	Input 100-240Vac, Output 5V-8V, Class B, GTM96180	
				TF043	Input 100-240Vac, Output 8.1V-14.9V, Class B, GTM96180	
				TF044	Input 100-240Vac, Output 15V-18.9V, Class B, GTM96180	
				TF045	Input 100-240Vac, Output 19V-30V, Class B, GTM96180	
				TF046	Input 100-240Vac, Output 30.1V-48V, Class B, GTM96180	
				TF068	Input 100-240Vac, Output 18V, Class B GTM96300 POE	
				TF069	Input 100-240Vac, Output 24V, Class B GTM96300 POE	
				TF070	Input 100-240Vac, Output 36V, Class B GTM96300 POE	
				TF071	Input 100-240Vac, Output 48V, Class B GTM96300 POE	
				TF051	Input 100-240Vac, Output 54V, 56V, Class B GTM96300 POE	
				TF064	Input 100-240Vac, Output 18V, Class B GTM96180 POE	
				TF065	Input 100-240Vac, Output 24V, Class B GTM96180 POE	
				TF066	Input 100-240Vac, Output 36V, Class B GTM96180 POE	
				TF067	Input 100-240Vac, Output 48V, Class B GTM96180 POE	
				TF063	Input 100-240Vac, Output 54V, 56V, Class B GTM96180 POE	
6,9, 11, 13, 23	18	Transformer		GT-3005001	Input 100-240Vac, Output 5-7.5V, Class B GTM91120 series; GTM91128LI*CEL** -****; GTM91128***-**** series(5.0-7.5V for power supply output, 3.2V-5.9V for charger output); GTM91128LI1CEL	
				GT-3009001	Input 100-240Vac, Output 7.6V-10.5V, Class B GTM91120 series	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			HAOPUWEI	GT-3012001	Input 100-240Vac, Output 10.6V-14.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***_**** series (7.6-12V for power supply output, 6.0V-8.9V for charger) GTM91128LI2CEL	cURus
				GT-3015001	Input 100-240Vac, Output 14.6V-19.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***_**** series (12.1-14V for power supply output, 9.0V-12.6V for charger output) GTM91128LI3CEL	
				GT-3024001	Input 100-240Vac, Output 19.6V-24V, Class B GTM91120 series	
				GT-3048001	Input 100-240Vac, Output 24.1V-48V, Class B GTM91120 series	
				TF038	Input 100-240Vac, Output 5-8.9V, Class B GTM96300	
				TF057	Input 100-240Vac, Output 9-11.9V, Class B GTM96300	
				TF039	Input 100-240Vac, Output 12-14.9V, Class B GTM96300	
				TF040	Input 100-240Vac, Output 15-24V, Class B GTM96300	
				TF041	Input 100-240Vac, Output 24.1-48V, Class B GTM96300	
				TF042	Input 100-240Vac, Output 5V-8V, Class B, GTM96180	
				TF043	Input 100-240Vac, Output 8.1V-14.9V, Class B, GTM96180	
				TF044	Input 100-240Vac, Output 15V-18.9V, Class B, GTM96180	
				TF045	Input 100-240Vac, Output 19V-30V, Class B, GTM96180	
				TF046	Input 100-240Vac, Output 30.1V-48V, Class B, GTM96180	
				TF068	Input 100-240Vac, Output 18V, Class B GTM96300 POE	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
				TF069	Input 100-240Vac, Output 24V, Class B GTM96300 POE	
				TF070	Input 100-240Vac, Output 36V, Class B GTM96300 POE	
				TF071	Input 100-240Vac, Output 48V, Class B GTM96300 POE	
				TF051	Input 100-240Vac, Output 54V, 56V, Class B GTM96300 POE	
				TF064	Input 100-240Vac, Output 18V, Class B GTM96180 POE	
				TF065	Input 100-240Vac, Output 24V, Class B GTM96180 POE	
				TF066	Input 100-240Vac, Output 36V, Class B GTM96180 POE	
				TF067	Input 100-240Vac, Output 48V, Class B GTM96180 POE	
				TF063	Input 100-240Vac, Output 54V, 56V, Class B GTM96180 POE	
				GT-3005001	Input 100-240Vac, Output 5-7.5V, Class B GTM91120 series; GTM91128LI*CEL**_****; GTM91128***_**** series(5.0-7.5V for power supply output, 3.2V-5.9V for charger output); GTM91128LI1CEL	
				GT-3009001	Input 100-240Vac, Output 7.6V-10.5V, Class B GTM91120 series	
				GT-3012001	Input 100-240Vac, Output 10.6V-14.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***_**** series (7.6-12V for power supply output, 6.0V-8.9V for charger) GTM91128LI2CEL	
				GT-3015001	Input 100-240Vac, Output 14.6V-19.5V, Class B GTM91120 series GTM91128LI*CEL**_****; GTM91128***_**** series (12.1-14V for power supply output, 9.0V-12.6V for charger output) GTM91128LI3CEL	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
			ENG	GT-3024001	Input 100-240Vac, Output 19.6V-24V, Class B GTM91120 series	cURus
				GT-3048001	Input 100-240Vac, Output 24.1V-48V, Class B GTM91120 series	
				TF038	Input 100-240Vac, Output 5-8.9V, Class B GTM96300	
				TF057	Input 100-240Vac, Output 9-11.9V, Class B GTM96300	
				TF039	Input 100-240Vac, Output 12-14.9V, Class B GTM96300	
				TF040	Input 100-240Vac, Output 15-24V, Class B GTM96300	
				TF041	Input 100-240Vac, Output 24.1-48V, Class B GTM96300	
				TF042	Input 100-240Vac, Output 5V-8V, Class B, GTM96180	
				TF043	Input 100-240Vac, Output 8.1V-14.9V, Class B, GTM96180	
				TF044	Input 100-240Vac, Output 15V-18.9V, Class B, GTM96180	
				TF045	Input 100-240Vac, Output 19V-30V, Class B, GTM96180	
				TF046	Input 100-240Vac, Output 30.1V-48V, Class B, GTM96180	
				TF068	Input 100-240Vac, Output 18V, Class B GTM96300 POE	
				TF069	Input 100-240Vac, Output 24V, Class B GTM96300 POE	
				TF070	Input 100-240Vac, Output 36V, Class B GTM96300 POE	
				TF071	Input 100-240Vac, Output 48V, Class B GTM96300 POE	
				TF051	Input 100-240Vac, Output 54V, 56V, Class B GTM96300 POE	
				TF064	Input 100-240Vac, Output 18V, Class B GTM96180 POE	
				TF065	Input 100-240Vac, Output 24V, Class B GTM96180 POE	
				TF066	Input 100-240Vac, Output 36V, Class B GTM96180 POE	



4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
				TF067	Input 100-240Vac, Output 48V, Class B GTM96180 POE	
				TF063	Input 100-240Vac, Output 54V, 56V, Class B GTM96180 POE	
28	18a	Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130oC	cURus
			PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130oC	
			JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C	
			JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C	
			JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	
			CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C	
			WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	
			JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C	
			SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	
			ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C	
			28	18b	Bobbin	
	T375HF					
CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0,74 mm min.				
SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0,45 mm min.				
			HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0,45 mm min.	

4.0 Critical Components						
Photo #	Item no. <sup>1</sup>	Name	Manufacturer/ trademark <sup>2</sup>	Type / model <sup>2</sup>	Technical data and securement means	Mark(s) of conformity <sup>3</sup>
29	18c	Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	Min.130°C	cURus
				1350T-1		
				44		
			BONDTEC PACIFIC CO LTD	370S	Min.130°C	
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	Min.130°C	
				CT		
				WF		
JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C				
CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C				
3	19	PTFE tubing (not shown)	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		
13	20	Bridging resistor (not shown) (optional)	TY-Ohm Suzhou Electronic Works Co. Ltd	RT	1W	cURus
			Yageo Components(Suzh ou) Co. Ltd	HHV	1W	

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
- 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 - Refer to Illustration No(s). 1-2 & 15-16 in Section 7.0.
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 3 and 4.
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. All wiring is minimum 24AWG, with a minimum rating of 300V, 80°C.
9. Markings - The product is marked as follows:
  1. Brand name or trademark: refer to sec. 1.0
  2. Model: refer to sec. 2.0
  3. Ratings: refer to sec. 2.0
  4. Manufacturer: refer to sec. 1.0
11. Transformer - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 18) was constructed as indicated in Illustrations 13 to 14. These records must be available at the factory for inspection on every received shipment.

**7.0 Illustrations**

**Illustration 1 - Spacings**

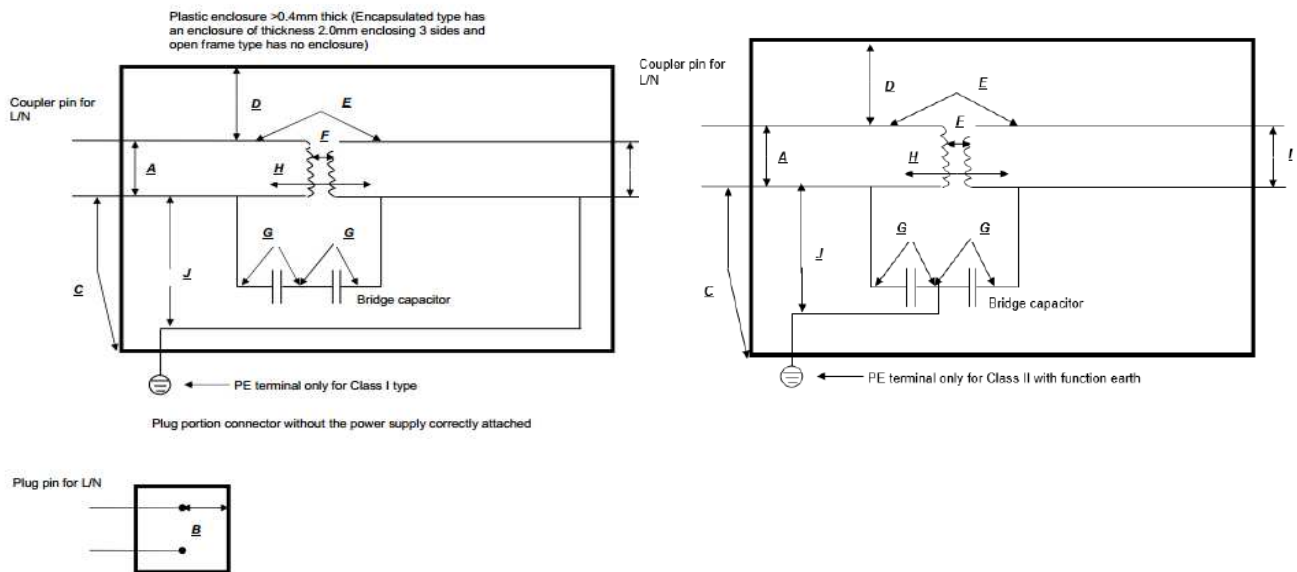


TABLE: INSULATION DIAGRAM									P	
For Interchangeable plug, direct plug-in, Desktop, Encapsulated models										
Pollution degree .....									2	—
Overvoltage category .....									II	—
Altitude .....									5000m	—
Additional details on parts considered as applied parts .....									<input checked="" type="checkbox"/> None <input type="checkbox"/> Areas	—
(See Clause 4.6 for details)										
Area	Number and type of Means of Protection: MOOP, MOPP	CTI	Working voltage		Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks	
			V <sub>rms</sub>	V <sub>pk</sub>						
A	MOOP	IIIb	240	340	2.96 <sup>7</sup>	2.96 <sup>1</sup>	3.75	3.75	Opposite polarity of mains part	
B	2MOOP	IIIb	240	340	5.92 <sup>7</sup>	5.92 <sup>1</sup>	8	8	Plug pin-out on the connector side to accessible part when the plug portion is plugged in the socket without the power supply correctly attached.	
C	2MOOP	IIIb	240	340	5.92 <sup>7</sup>	5.92 <sup>1</sup>	9	9	Mains part (plug portion) to outer enclosure (accessible position during normal use)	
D	2MOOP	IIIb	240	340	5.92 <sup>7</sup>	5.92 <sup>1</sup>	9	9	Internal mains part to accessible outer enclosure	
E	2MOPP	IIIb	240 <sup>3</sup>	—	7.84 <sup>2</sup>	6.45 <sup>1</sup>	9.7 <sup>4</sup>	7.5 <sup>4</sup>	Mains part to secondary circuits (Optocoupler)	
F	2MOPP	IIIb	240 <sup>3</sup>	—	7.84 <sup>2</sup>	6.45 <sup>1</sup>	8.2 <sup>2</sup>	7.4 <sup>2</sup>	Mains part to	

**7.0 Illustrations**

**Illustration 2 - Spacings (Cont.)**

Area	Number and type of	CTI	Working voltage	Required creepage	Required clearance	Measured creepage	Measured clearance	Remarks	
								secondary circuits (Transformer)	
G	MOPP (Each) x 2	IIIb	240 <sup>3</sup>	--	4.0 <sup>2</sup>	3.225 <sup>1</sup>	6	6	Mains part to secondary circuits (Y capacitor x 2)
H	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	6.45 <sup>1</sup>	8.2	8.2	Mains part to secondary circuits (Along PCB trace)
I	2MOOP	IIIb	--	Max. 48Vdc	--	--	--	--	Accessible part per 8.4.2 c)
J	MOPP	IIIb	240 <sup>3</sup>	--	4.0 <sup>2</sup>	3.225 <sup>1</sup>	4.8	4.8	Line/Neutral to PE terminal trace (for Class I) (floating for class II, shall be evaluated in end product) <sup>4</sup>
Supplementary Information:									
1) Multiplication factor for MOOP: 1.48; Multiplication factor for MOPP: 1.29.									
2) Linear interpolation is applied to the determination of required creepage.									
3) The working voltage is highest measured value which acquired by testing all the models listed in the report at the rated input voltage, but not less than the rated input voltage.									
4) The minimum creepage and clearance is selected from all the types of optocouplers.									
5) The transformer core regarded as primary conductor is wrapped with 2 layers of insulating tape and the secondary pin-out adopts the jump lead wire soldering.									
6) There is a slot min. 1 mm wide between two sides of pads of components.									
7) A CREEPAGE DISTANCE cannot be less than the required air clearance.									
8) For Encapsulated type, there is not earthing terminal for earthing wire in primary circuit, earthing wire is located on secondary circuit only, so no insulation J exist.									
For open frame models									
Pollution degree ..... : 2									—
Overvoltage category ..... : II									—
Altitude ..... : 2000m									—
Additional details on parts considered as applied parts ..... : <input checked="" type="checkbox"/> None <input type="checkbox"/> Areas _____ (See Clause 4.6 for details)									—
Area	Number and type of	CTI	Working voltage	Required creepage	Required clearance	Measured creepage	Measured clearance	Remarks	
	Means of Protection: MOOP, MOPP		V <sub>max</sub>	V <sub>pk</sub>	(mm)	(mm)	(mm)	(mm)	
A	MOOP	IIIb	240	340	2.5	2	3.75	3.75	Opposite polarity of mains part
E	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	5	9 <sup>4</sup>	7.5 <sup>4</sup>	Mains part to secondary circuits (Optocoupler)
F	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	5	8.2 <sup>5</sup>	7.4 <sup>5</sup>	Mains part to secondary circuits (Transformer)
G	MOPP (Each) x 2	IIIb	240 <sup>3</sup>	--	4	2.5	6	6	Mains part to secondary circuits (Y capacitor x 2)
H	2MOPP	IIIb	240 <sup>3</sup>	--	7.84 <sup>2</sup>	5	9.5	9.5	Mains part to secondary circuits (Along PCB trace)
I	2MOOP	IIIb	--	Max. 48Vdc	--	--	--	--	Accessible part per 8.4.2 c)
J	MOPP	IIIb	240 <sup>3</sup>	--	4	2.5	4.7	4.7	Line/Neutral to PE terminal trace (for Class I) (floating for class II, shall be evaluated in end product)

**7.0 Illustrations**

**Illustration 3 - Model list**

**GT\*96180-\*\*\*\* Interchangeable plug models**

Model	Output Voltage	Max. output current	Max. output power
GT*96180-*07**	5-7V	3.6A	18W
GT*96180-*11**	7.1-11V	2.53A	18W
GT*96180-*17.9**	11.1-17.9V	1.62A	18W
GT*96180-*30**	18-30V	1.0A	18W
GT*96180-*38**	30.1-38V	0.6A	18W
GT*96180-*48**	38.1-48V	0.47A	18W

**GT\*96180-\*\*\*-T2/T2A/T3/T3A\* Desktop models**

Model	Output Voltage	Max. output current	Max. output power
GT*96180-*07*-T2/T2A/T3/T3A*	5-7V	3.6A	18W
GT*96180-*11*-T2/T2A/T3/T3A*	7.1-11V	2.53A	18W
GT*96180-*17.9*-T2/T2A/T3/T3A*	11.1-17.9V	1.62A	18W
GT*96180-*30*-T2/T2A/T3/T3A*	18-30V	1.0A	18W
GT*96180-*38*-T2/T2A/T3/T3A*	30.1-38V	0.6A	18W
GT*96180-*48*-T2/T2A/T3/T3A*	38.1-48V	0.47A	18W

**GT\*96300-\*\*\*-T2/T2A/T3/T3A/R2/R3A\* Desktop models**

Model	Output Voltage	Max. output current	Max. output power
GT*96300-*07.5*-T2/T2A/T3/T3A/R2/R3A*	5-7.5V	4.5A	22.5W
GT*96300-*10.5*-T2/T2A/T3/T3A/R2/R3A*	7.6-9V	3.94A	30W
GT*96300-*10.5*-T2/T2A/T3/T3A/R2/R3A*	9.1-10.5V	3.95A	36W
GT*96300-*14.5*-T2/T2A/T3/T3A/R2/R3A*	10.6-14.5V	3.39A	36W
GT*96300-*19.5*-T2/T2A/T3/T3A/R2/R3A*	14.6-19.5V	2.46A	36W
GT*96300-*24*-T2/T2A/T3/T3A/R2/R3A*	19.6-24V	1.83A	36W
GT*96300-*36*-T2/T2A/T3/T3A/R2/R3A*	24.1-36V	1.49A	36W
GT*96300-*48*-T2/T2A/T3/T3A/R2/R3A*	36.1-48V	0.99A	36W

**GT\*91120-\*\*\*-T2/T3A/F/FW/P2/P3\* External/Hybrid desktop or direct plug-in model or Open Frame or Encapsulated**

Model	Output Voltage	Max. output current	Max. output power
GT*91120-*07.5*-T2/T3A/F/FW/P2/P3*	5-7.5V	4A	30W
GT*91120-*10.5*-T2/T3A/F/FW/P2/P3*	7.6-10.5V	3.94A	30W
GT*91120-*14.5*-T2/T3A/F/FW/P2/P3*	10.6-14.5V	2.83A	30W
GT*91120-*19.5*-T2/T3A/F/FW/P2/P3*	14.6-19.5V	2A	30W
GT*91120-*24*-T2/T3A/F/FW/P2/P3*	19.6-24V	1.6A	30W
GT*91120-*36*-T2/T3A/F/FW/P2/P3*	24.1-36V	1.25A	30W
GT*91120-*48*-T2/T3A/F/FW/P2/P3*	36.1-48V	0.83A	30W

**GT\*96180-\*\*\*-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP**

Model	Output Voltage	Max. output current	Max. output power
GT-96180-*30-12.0-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	18Vdc	1A	18W
GT-96180-*30-6.0-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	24Vdc	0.75A	18W
GT-96180-*38-2.0-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	36Vdc	0.5A	18W
GT-96180-*48-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	48Vdc	0.375A	18W
GT-96180-*54-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	54Vdc	0.33A	18W
GT-96180-*56-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	56Vdc	0.32A	18W

**GT\*96300-\*\*\*-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP**

Model	Output Voltage	Max. output current	Max. output power
GT-96300-*19.5-1.5-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	18Vdc	2A	36W
GT-96300-*24-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	24Vdc	1.5A	36W
GT-96300-*36-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	36Vdc	1A	36W
GT-96300-*48-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	48Vdc	0.75A	36W
GT-96300-*54-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	54Vdc	0.66A	36W
GT-96300-*56-T2/T2A/T3/T3A/R2/R3A-AP/PP/SP*	56Vdc	0.64A	36W

**7.0 Illustrations**

**Illustration 4 - Model list(Cont.)**

Model	Charger Output Voltage (Vdc)	Max. Charger Output Current (A)	Max. Charger Output Power (W)	Power Supply Output Voltage (Vdc)	Max. Power Supply Output Current (A)	Max. Power Supply Output Power (W)	Max. Combined Output Power (W)
GTM91128*CHRG*-**	3.2-5.9	2	8.4	N/A	N/A	N/A	N/A
	6.0-8.9	1.6	13.44	N/A	N/A	N/A	N/A
	9.0-12.6	1.4	17.64	N/A	N/A	N/A	N/A
GTM91128*DUALC*-****	3.2-5.9	1.8	7.56	5-7.5	3.6	18	20
	6.0-8.9	1.4	12.46	9.5-12	2.3	21.85	25
	9.0-12.6	1.2	15.12	14	1.9	26.6	30

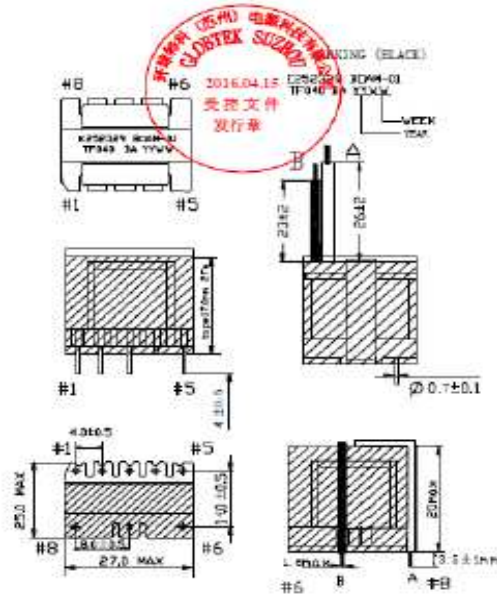
Model	Charger Output Voltage (Vdc)	Max. Charger Output Current (A)	Max. Charger Output Power (W)	Power Supply Output Voltage (Vdc)	Max. Power Supply Output Current (A)	Max. Power Supply Output Power (W)	Max. Combined Output Power (W)
GTM91128LI*CEL*-.**	4.2	2	8.4	N/A	N/A	N/A	N/A
	8.4	1.6	13.44	N/A	N/A	N/A	N/A
	12.6	1.4	17.64	N/A	N/A	N/A	N/A
GTM91128LI*CELM*-****	4.2	1.8	7.56	5-7.5	3.6	18	20
	8.4	1.4	1.76	9.5-12	2.3	21.85	25
	12.6	1.2	15.12	14	1.9	26.6	30



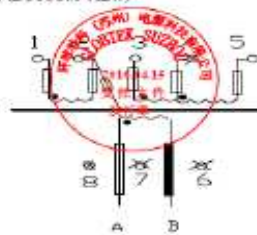
**7.0 Illustrations**

**Illustration 13 - Transformer**

DIMENSION(mm)



EQUIVALENT CIRCUIT (BOTTOM VIEW)



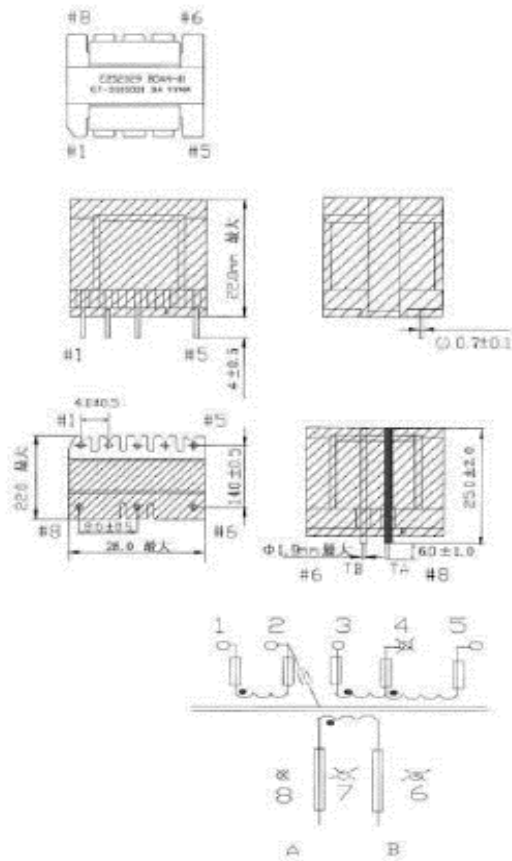
- \* THE \* MARKS ARE START POINT
- \* REMOVE PIN #6, 7, 8
- \* CUTTING PIN PIN4 剪去 D3, 不能超出骨架控制
- \* ALL TEFLONTUBE (A: WHITE; B: BLACK)

**WINDING SPECIFICATION**

NO	PIN NO. (S-F) S: START, F: FINISH	WIRE	TURNS	WINDING METHOD
W1	(5)-(4)	2UEW $\varnothing 0.35$	40	SOLENOID WINDING
INSULATION: POLYESTER TAPE $t=0.025mm, w=9.0mm, 1Ts$				
W2	(1)-(2)	2UEW $\varnothing 0.20 \times 3$	12	SOLENOID WINDING
INSULATION: BROWN TAPE $t=0.025mm, w=9.0mm, 2Ts$				
W3	(A)-(B)	TEX-E $\varnothing 0.35$	17	SOLENOID WINDING
INSULATION: POLYESTER TAPE $t=0.025mm, w=9.0mm, 3Ts$				
W4	-(2)	0.05/7.0mm COPPER TAPE	0.9	CENTER
INSULATION: POLYESTER TAPE $t=0.025mm, w=9.0mm, 2Ts$ TAPE: 0.025 $\times$ 10.0				
W5	(4)-(3)	2UEW $\varnothing 0.35$	10	SOLENOID WINDING
INSULATION: POLYESTER TAPE $t=0.025mm, w=9.0mm, 3Ts$				
CORE FINING: POLYESTER TAPE $t=0.025mm, w=1.5mm, 1Ts$				
CORE TAPE LAYER: POLYESTER TAPE $t=0.025mm, w=28.0mm, LENGTH: 45mm$				
INSULATION: BROWN TAPE $t=0.05mm, w=17.0mm, 2LAYER$				

**7.0 Illustrations**

**Illustration 14 - Transformer(Cont.)**

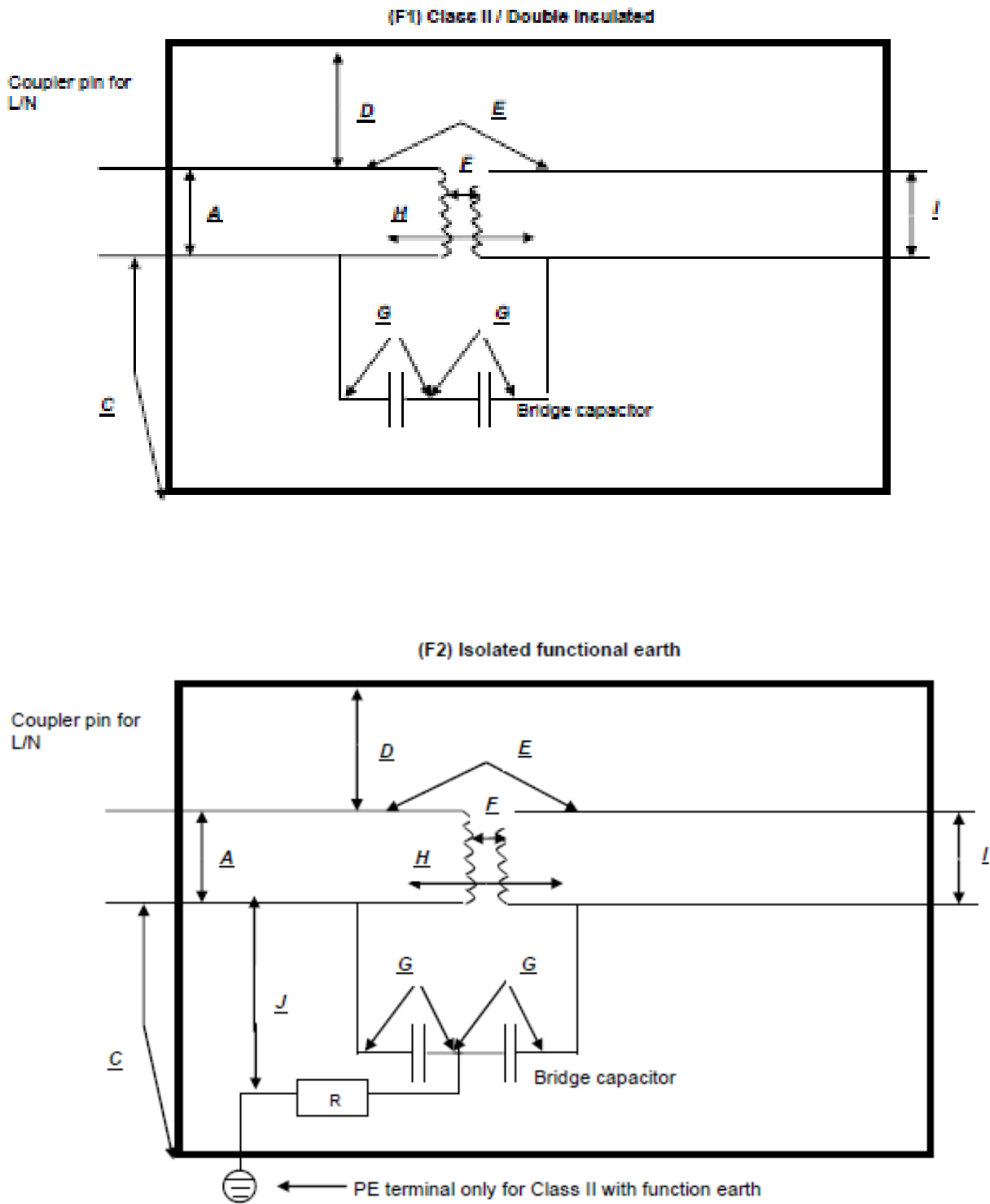


\* THE "λ" MARKS ARE START POINT  
 \*REMOVE PIN #6, 7, 8  
 \*CUTTING PIN #4  
 \* ALL TEFLON TUBE (A: BLACK; B: WHITE)

NO	PIN NO. (S-F) S:START, F:FINISH	WIRE	TURNS	WINDING METHOD
W1	(3)-(4)	2UEW $\phi$ 0.35	40	SOLENOID WINDING
INSULATION: POLYESTER TAPE t= 0.025mm, w=9.0mm, 1Ts				
W2	(1)-(2)	2UEW $\phi$ 0.19*3	13	SOLENOID WINDING
INSULATION: BROWN TAPE t= 0.025mm, w=9.0mm, 2Ts				
W3	(A)-(B)	TEX-E 6.45*4	5	SOLENOID WINDING
INSULATION: POLYESTER TAPE t= 0.025mm, w=9.0mm, 2 Ts				
W4	-(2)	0.05/5.0 mm,COPER+TAPE	0.9	CENTER
INSULATION: POLYESTER TAPE t= 0.025mm, w=9.0mm, 2Ts TAPE: 0.025X10.0				
W5	(4)-(5)	2UEW $\phi$ 0.35	20	SOLENOID WINDING
INSULATION: POLYESTER TAPE t= 0.025mm, w=9.0mm, 2Ts				
CORE FIXING: POLYESTER TAPE t= 0.025mm, w=8.5mm, 3Ts				
CORE TAPE:2LAYER POLYESTER TAPE t= 0.025mm, w=28.0mm,LENGTH:45mm				
INSULATION: BROWN TAPE t= 0.05mm, w=17.0mm,2LAYER				

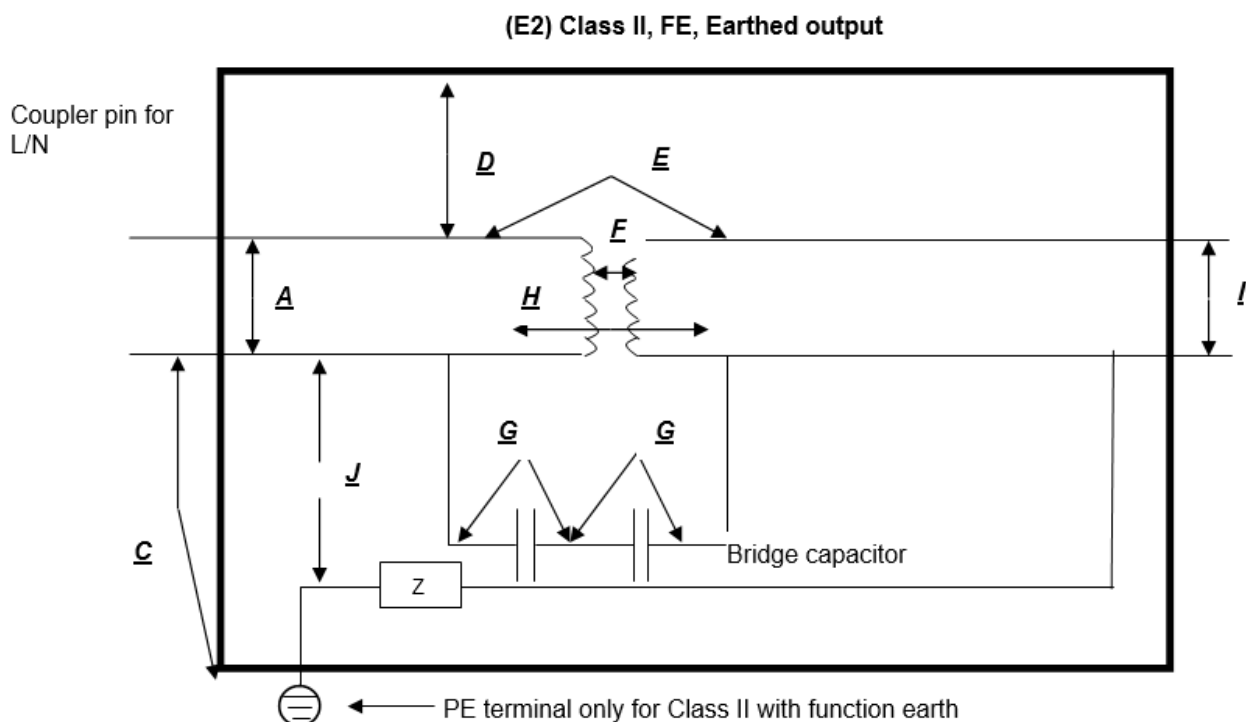
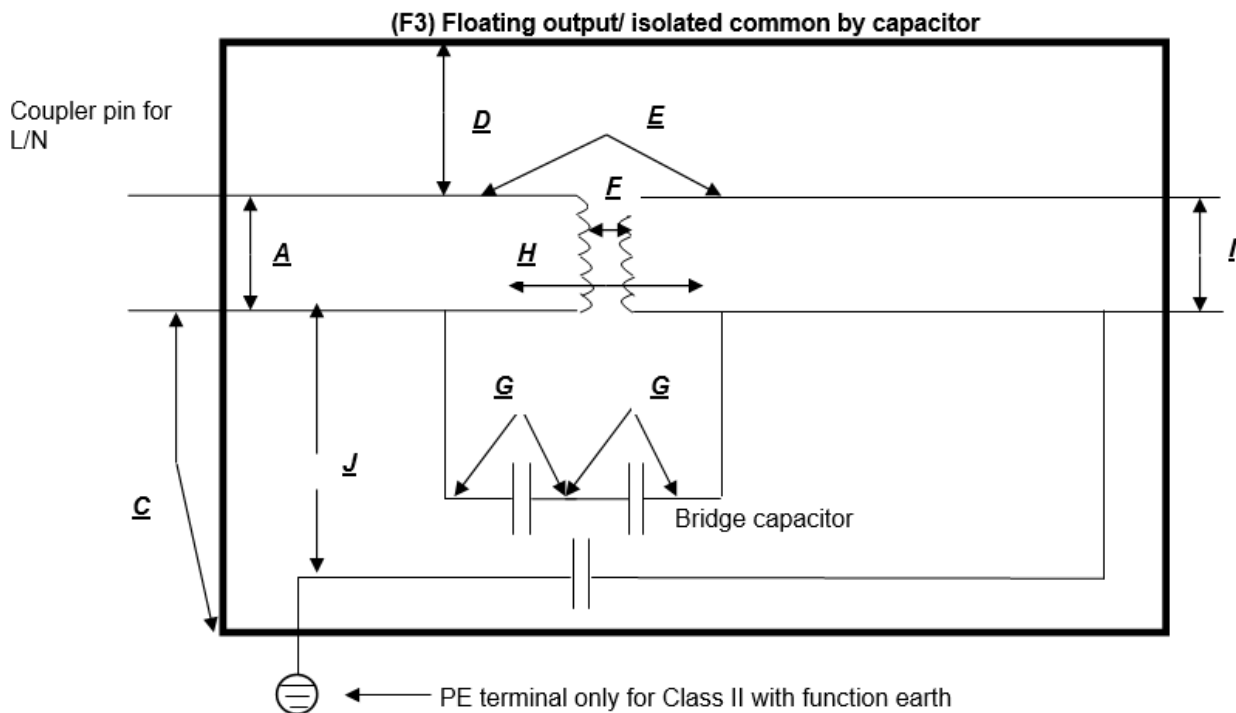
**7.0 Illustrations**

**Illustration 15 - Spacings (Cont.)**



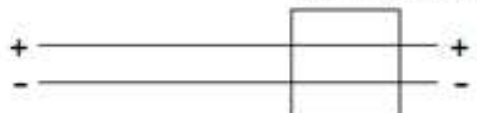
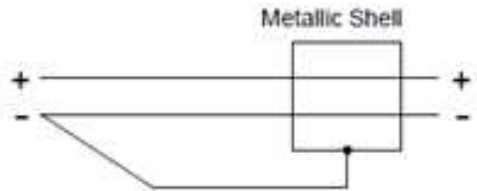
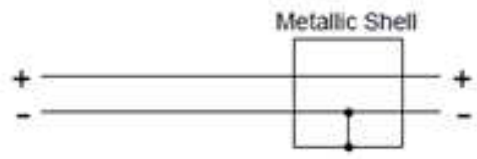
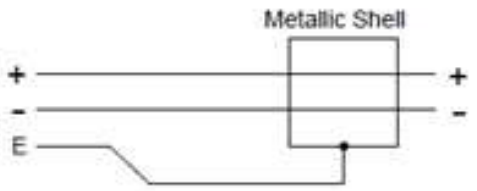

**7.0 Illustrations**

**Illustration 16 - Spacings (Cont.)**



**7.0 Illustrations**

**Illustration 17 - Output connector hook-up**

SELECT OUTPUT CONNECTOR HOOK-UP	
<p><input type="radio"/> (0) Standard 2 conductor output</p> <p style="text-align: center;"><b>Ø</b> (Null)</p> <p>Metallic Shell with no connection, or a connector with plastic insulating outer shell.</p> 	<p><input type="radio"/> (B) 3 conductor cable, third conductor attaches to shell</p> <p style="text-align: center;"><b>B</b></p> <p>Metallic Shell</p> 
<p><input type="radio"/> (A) 2 conductor cable, metallic conn shell to minus</p> <p style="text-align: center;"><b>A</b></p> <p>Metallic Shell</p> 	<p><input type="radio"/> (C) 3 conductor cable, earth isolated to conn shell</p> <p style="text-align: center;"><b>C</b></p> <p>Metallic Shell</p> 
<p><input type="radio"/> (D) 3 conductor cable or 2 conductor cable with shield</p> <p style="text-align: center;"><b>D</b></p>  <p>3 Conductor Output Cable, or two conductor coaxial cable, with Outer Shield</p>	

<b>8.0 Test Summary</b>			
Evaluation Period	2019-03-18 to 2019-04-27		Project No. 180501714SHA
Sample Rec. Date	18-Mar-2019	Condition	Prototype
Sample ID	0180524-23-003		
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:			
		AAMI ES60601-1:2005 +A1	
		CSA C22.2#60601-1:2014 Ed.3	
Test Description	Clause		
Power Input	4.11		
Humidity Preconditioning	5.7		
Accessible Parts	5.9.2		
Legibility of Markings	7.1.2		
Durability of Markings	7.1.3		
Plug Voltage and/or Energy	8.4.3		
Working Voltage Measurement	8.5.4		
Leakage Current Test terminations	8.7.4		
Dielectric Strength Means	8.8.3		
Ball Pressure Test	8.8.4.1		
Creepage & Clearance Measurements	8.9.4		
Excessive Temperature	11.1		
Single Fault Conditions	13.2		
Push Test	15.3.2		
Impact Test	15.3.3		
Drop Test	15.3.4		
Mold Stress Relief	15.3.6		
Transformer Short-Circuit	15.5.1.2		
Transformer Overload	15.5.1.3		
Transformer Dielectric Strength	15.5.2		
		IEC 60601-1-11:2015 Ed.2	
		CSA C22.2#60601-1-11:2015 Ed.2	
Test Description	Clause		
Environmental condition test of transport and storage	4.2.2		
Continuous operating conditions	4.2.3.1		
Shock test	10.1.2 a)		
Vibration test	10.1.2 b)		

<b>8.1 Signatures</b>			
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:	Larry Zhong	Reviewed by:	Will Wang
Title:	Project engineer	Title:	Project reviewer
Signature:	<i>Signature on file</i>	Signature:	<i>Signature on file</i>

**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.

<b>BASIC LISTEE</b>	GlobTek, Inc.
Address	186 Veterans Drive NORTHVALE NJ 07647
Country	USA
Product	Medical Power Supply

<b>MULTIPLE LISTEE 1</b>	None
Address	
Country	
Brand Name	

<b>ASSOCIATED MANUFACTURER</b>	
Address	
Country	

<b>MULTIPLE LISTEE 1 MODELS</b>	<b>BASIC LISTEE MODELS</b>

<b>MULTIPLE LISTEE 2</b>	None
Address	
Country	
Brand Name	

<b>ASSOCIATED MANUFACTURER</b>	
Address	
Country	

<b>MULTIPLE LISTEE 2 MODELS</b>	<b>BASIC LISTEE MODELS</b>

<b>MULTIPLE LISTEE 3</b>	None
Address	
Country	
Brand Name	

<b>ASSOCIATED MANUFACTURER</b>	
Address	
Country	

<b>MULTIPLE LISTEE 3 MODELS</b>	<b>BASIC LISTEE MODELS</b>

## 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 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:**

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
Between L/N and secondary output for Class II and open frame model	4000VAC	1s
Between L/N and secondary output(earthing) for Class I model	1500VAC	1s
<b><u>Product - One sample from each shipment of Section 4.0 item 18:</u></b>	<b><u>Test Voltage</u></b>	<b><u>Test Time</u></b>
Between primary circuit and secondary output	4000Vac	1min
Between secondary circuit and core	4000Vac	1min

