

Test Report issued under the responsibility of:



TEST REPORT

IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements

Report Number:	151100936SHA-001
Date of issue:	2016-06-27; Modification 1:2018-04-08
Total number of pages	59
Applicant's name:	GlobTek, Inc.
Address:	186 Veterans Dr. Northvale, NJ 07647 USA
Test specification:	
Standard:	IEC 60950-1:2005 (Second Edition) + A1:2009 + A2:2013
Test procedure:	CB Scheme
Non-standard test method:	N/A
Test Report Form No	IEC60950_1F
Test Report Form(s) Originator :	SGS Fimko Ltd
Master TRF:	Dated 2014-02

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Test item description:	ITE POWER SUPPLY
Trade Mark:	GlobTek, Inc.
Manufacturer	Same as applicant
Model/Type reference:	GT**-*****
Ratings:	(See page 7-9 for details) Input: 100-240V~, 50-60Hz, 0.6A / 1.0A / 1.5A; Output: 5-56VDC, Max 36W (See pages 7-9 for details)



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Testing procedure and testing location:	
CB Testing Laboratory:	Intertek Testing Services Shanghai
Testing location/ address:	Building No. 86, 1198 Qinzhou Road (North) 200233 Shanghai CHINA
Associated CB Testing Laboratory:	N/A
Testing location/ address:	
Tested by (name + signature):	Jarree Jiang (Engineer)
Approved by (name + signature):	Jacky Shu (Mandated Reviewer)
Testing procedure: TMP/CTF Stage 1:	N/A
Testing location/ address:	
Tested by (name + signature):	
Approved by (name + signature):	
Testing procedure: WMT/CTF Stage 2:	N/A
Testing location/ address:	
Tested by (name + signature):	
Witnessed by (name + signature):	
Approved by (name + signature):	
Testing procedure: SMT/CTF Stage 3 or 4:	N/A
Testing location/ address:	
Tested by (name + signature)	
Witnessed by (name + signature):	
Approved by (name + signature):	
Supervised by (name + signature):	



List of Attachments (including a total number of pages in each attachment):

- Page 28 37:National differences for Australia and New ZealandPage 38 53:National differences for Japan
- Page 54 59: Photos of product

Summary of testing:

All tests are performed and the most disadvantageous results are recorded. We conclude that the appliances comply with this standard.

Tests performed (name of test and test	Testing location:	
clause):	Intertek Testing Services Shanghai	
1.6.2 Input current test	Building No. 86, 1198 Qinzhou Road (North)	
2.6.3 Earthing Resistance Test	200233 Shanghai CHINA	

Summary of compliance with National Differences:

The test report covers group- and national differences for the CENELEC countries.

The national differences for Singapore have been checked according to IEC 60950-1 1st ed.

The national differences for Japan have been checked according to IEC 60950-1+A1+A2.

The national differences for China have been checked according to IEC 60950-1 2nd ed. The national differences for Australia/New Zealand have been checked according to IEC 60950-1 2.2nd ed.

The national difference for Korea has been checked according to IEC 60950-1 2nd ed. + A1. The national differences for USA and Canada have been checked according to IEC 60950-1 2nd ed. + A1 + A2.

The product fulfils the requirements of IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 and EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2:2013.



Test item particulars			
Equipment mobility:	[] movable [] hand-held [X] transportable [] stationary [X] for building-in [X] direct plug-in		
Connection to the mains:	 [X] pluggable equipment [X] type A [] type B [] permanent connection [X] detachable power supply cord [] non-detachable power supply cord [] not directly connected to the mains 		
Operating condition	[X] continuous [] rated operating / resting time:		
Access location:	[X] operator accessible [] restricted access location		
Over voltage category (OVC):	[] OVC I [X] OVC II [] OVC III [] OVC IV [] other:		
Mains supply tolerance (%) or absolute mains supply values:	+10%/-10%		
Tested for IT power systems	[X] Yes [] No		
IT testing, phase-phase voltage (V)	120V or 230V		
Class of equipment:	[X] Class I [X] Class II [] Class III [] Not classified		
Considered current rating of protective device as part of the building installation (A)	16A (20A for Noth America)		
Pollution degree (PD):	[] PD 1 [X] PD 2 [] PD 3		
IP protection class:	IPX0		
Altitude during operation (m)	Max. 5000m		
Altitude of test laboratory (m)	<100m		
Mass of equipment (kg)	0.058		
Possible test case verdicts:			
- test case does not apply to the test object:	N/A		
- test object does meet the requirement::			
- test object does not meet the requirement:	F (Fail)		
Testing:			
Date of receipt of test item:	2018-03-09		
Date (s) of performance of tests	2018-03-19 to 2018-04-02		



General remarks:

The test results presented in this report relate only to the object tested.

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"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

When determining for test conclusion, measurement uncertainty of tests has been considered.

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The test report only allows to be revised only within the report defined retention period unless standard or regulation was withdrawn or invalid.

Note: this report is not valid without the original test report.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:			
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	 ☑ Yes ☑ Not applicable 		
When differences exist; they shall be identified in t	he General product information section.		
Name and address of factory (ies):	1. GlobTek (Suzhou) Co., Ltd		
	Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, China		
	2. GlobTek, Inc.		
	186 Veterans Dr. Northvale, NJ 07647 USA		



General product information:

Product covered by this report is ITE power supply module.

Desktop / direct plug-in power supply are provided with suitable external enclosure. The top and bottom parts of the enclosure are ultrasonic welded.

Open frame and encapsulated power supplies are without external enclosure. The external enclosure will be provided within the end product.

The products were tested to be suitable for connection to \leq 16 A (IEC) and \leq 20 A (USA) branch circuit in series. The unit is approved for TN mains star connections. The unit provides internally two fuses. The power supplies are rated class I or class II. Open frame and encapsulated class I power supplies shall

be properly bonded to the main protective bonding termination in the end product.

All the types are designed for continuous operation.

Model similarity:

GT**-*****

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 with C14 AC inlet

- =-T3A means desktop class I with C6 AC inlet
- =-R2 means hybrid desktop housing class II with C8 AC inlet
- =-R3A means hybrid desktop housing class I with C6 AC inlet
- =-F means Open Frame class I
- =-FW means Open Frame class II
- =-P2 means Encapsulated class II
- =-P3 means Encapsulated class I
- 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

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;

The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

Ratings:

When 2nd"*" = 96180, Input: 100-240V~,50-60Hz, 0.6A Output: 5-56Vdc

When 2nd"*" = 96300 or 91120 or 91128, Input: 100-240V~,50-60Hz,1.5A or 1.0A; Output: 5-56Vdc(for 96300 and 91120)

When the model with POE, the output voltage is Max. 56Vdc,

others will be up to 48Vdc.

Model list:

GT*96180-**** Interchangeable plug models

Model	Output Voltage	Max. output current	Max. output power
GT*96180-*07**	5-7Vdc	3.6A	18W
GT*96180-*11**	7.1-11Vdc	2.53A	18W



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GT*96180-*17.9**	11.1-17.9Vdc	1.62A	18W
GT*96180-*30**	18-30Vdc	1.0A	18W
GT*96180-*38**	30.1-38Vdc	0.6A	18W
GT*96180-*48**	38.1-48Vdc	0.47A	18W
GT*06180 *** T2/T2A/T2/T2A* Decktop models			

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

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

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

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

GT*91120-***-T2/T3A/F/FW/P2/P3* External/Hybird 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*	5-7.5Vdc	4A	30W
GT*91120-*10.5*-T2/T3A/F/FW/P2/P3*	7.6-10.5Vdc	3.94A	30W
GT*91120-*14.5*-T2/T3A/F/FW/P2/P3*	10.6-14.5Vdc	2.83A	30W
GT*91120-*19.5*-T2/T3A/F/FW/P2/P3*	14.6-19.5Vdc	2A	30W
GT*91120-*24*-T2/T3A/F/FW/P2/P3*	19.6-24Vdc	1.6A	30W
GT*91120-*36*-T2/T3A/F/FW/P2/P3*	24.1-36Vdc	1.25A	30W
GT*91120-*48*-T2/T3A/F/FW/P2/P3*	36.1-48Vdc	0.83A	30W

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

GI 90100" "12/12A/13/13A/n2/n3A"AF/FF/3F				
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	e 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

Modification 1:

The original test report ref. No. 151100936SHA-001 dated on 2016-06-27 was modified on 2018-04-08 to include the following addition:

- 1. Update national differences version for Japan and Australia/New Zealand.
- Update Model similarity from "When 2nd"*" = 96300 or 91120, Input: 100-240V~,50-60Hz,1.5A or 1.0A Output: 5-56Vdc" to "When 2nd"*" = 96300 or 91120 or 91128, Input: 100-240V~,50-60Hz,1.5A or 1.0A; Output: 5-56Vdc(for 96300 and 91120)"
- 3. Add output voltage nature "dc" in the model list table.
- 4. Correct temperature of Photo coupler which manufactured by "Lite-On", "Sharp" and "Bright led" from 100°C to 110°C in table 1.5.1 in bold.
- 5. Add three photos of PCB for GTM96180 series, due to following three changes.
 - 1) Add an alternative grounding connection type, which with R22, R23 and without R24.
 - 2) Add an alternative grounding connection type, which without R22, R23 and with R24.
 - 3) Add and alternative power board, which without heatsink for D2. (only for GTM96180 series which output greater than 15Vdc)
- 6. Supplement photos of PCB for GTM96180 series(Class I), which without R22, R23 and R24.

Clause considered: Clause 1.6, Clause 2.6.3, Clause 4.5, table 1.6.2 and table 4.5.

	N 0		050	
- normal conditions	N.C.	- single fault conditions	S.F.C	
 functional insulation 	FI	 basic insulation 	BI	
 double insulation between parts of opposi 	DI te	- supplementary insulation	SI	
polarity	BOP	- reinforced insulation	RI	



Requirement + Test

Clause

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Result - Remark Verdict

1.6	Power interface		Р
1.6.1	AC power distribution systems		Р
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor		Р

2.6	Provisions for earthing and bonding	and bonding		
2.6.1	Protective earthing	Class I model series were checked.	Р	
2.6.2	Functional earthing		Р	
	Use of symbol for functional earthing	Fuction earting is separated from hazardous voltage by reinforced insulation.	Р	
2.6.3	Protective earthing and protective bonding conductors		Р	
2.6.3.1	General		Р	
2.6.3.2	Size of protective earthing conductors		N/A	
	Rated current (A), cross-sectional area (mm ²), AWG:	Certified appliance inlet used.	—	
2.6.3.3	Size of protective bonding conductors	The protective bonding complies with Clause 2.6.3.4. Relevant for class I units.	Р	
	Rated current (A), cross-sectional area (mm ²), AWG:		—	
	Protective current rating (A), cross-sectional area (mm ²), AWG:		—	
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min):	12mΩ, 0.25V, 40A, 2mins (GTM96180-1507-2.0-T3)	Р	
2.6.3.5	Colour of insulation:	Green/yellow wiring is used.	Р	

4.5	Thermal requirements		Р
4.5.1	General		Р
4.5.2	Temperature tests		Р
	Normal load condition per Annex L:	Rated load with continuous operation.	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р



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			-	
4.5.5	Resistance to abnormal heat:	(see appended table 4.5.5)	Р	



Requirement + Test

Clause

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Result - Remark

Verdict

1.5.1	ABLE: List of critica	al components			Р
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B T4	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E154355
Alt. use	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E243157
Alt. use	CHEERFUL ELECTRONIC (HK) LTD	02 03 03A	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E199724
Alt. use	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E251754
Alt. use	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E251781
Alt. use	SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0 04V0	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60335-1 UL 796	Tested with appliance UL E186016
Alt. use	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E177671
Alt. use	KUOTIANG ENT LTD	C-2 C-2A	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E227299
Alt. use	SHENZHEN TONGCHUANGXI N ELECTRONICS CO LTD	тсх	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E250336
Alt. use	PACIFIC WIN INDUSTRIAL LTD	PW-02 PW-03	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E228070
Alt. use	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E74757



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Clause	Requirement + Test	Resi

Result - Remark

Verdict

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Alt. use	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E231590
Alt. use	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E229877
Alt. use	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E213009
Alt. use	HUIZHOU SHUNJIA ELECTRONICS CO LTD	SJ-B	Min. 1,6 mm thickness, min. V- 0, 130°C	IEC 60950-1 UL 796	Tested with appliance UL E320884
Fuse (F1,F2) (F2 is optional)	Conquer Electronics Co., Ltd.	MST series	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017118 UL E82636
Alt. use	Ever Island Electric Co., Ltd. And Walter Electric	2010, ICP	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40018781 UL E220181
Alt. use	Bel Fuse Ltd.	RST-Serie(s)	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40011144 UL E20624
Alt. use	Cooper Bussmann LLC	SS-5	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40015513 UL E19180
Alt. use	Shenzhen Lanson Electronics Co. Ltd.	SMT	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40012592 UL E221465
Alt. use	Das & Sons International Ltd.	385T series	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40008524 UL E205718



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Clause	Requirement + Test	Result - Remark	Verdict

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Alt. use	Dongguan Better Electronics Technology Co., Ltd.	932	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40033369 UL E300003
Alt. use	Hollyland Company Limited	5ET	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40015669 UL E156471
Alt. use	Sunny East Enterprise Co. Ltd.	CFD-Serie(s)	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40030246 UL E133774
Alt. use	Conquer Electronics Co., Ltd.	MET series	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017157 UL E82636
Alt. use	Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 Serie(s)	T1.6A, 250V; T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017009 UL E213695
Bridging resistor (Optional)	TY-Ohm Suzhou Electronic Works Co. Ltd	RT	10MΩ, 1W	IEC/EN 60950-1	VDE 40031266 UL E321764
Alt. use	Yageo Components (Suzhou) Co. Ltd	HHV	10MΩ, 1W	IEC/EN 60950-1	VDE 40031974 UL E333286
Y capacitor (CY1, CY2) (Optional)	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Y1, AC250V, max 2200pF, 25/085/21/B	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 138526 UL E37861
Alt. use	Success Electronics Co., Ltd.	SE	Y1, AC250V, or AC500V, max 2200pF, 40/125/56/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280
Alt. use	Success Electronics Co., Ltd.	SB	Y1, AC250V, max 2200pF, 40/125/56/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280



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Alt. use	Murata Mfg. Co., Ltd.	кх	Y1, AC250V, max 2200pF, 25/125/21/B	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
Alt. use	Walsin Technology Corp.	АН	Y1, AC250V, max 2200pF, 25/125/21/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40001804 UL E146544
Alt. use	JYA-NAY Co., Ltd.	JN	Y1, AC250V, max 2200pF, 25/125/21/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40001831 UL E201384
Alt. use	Haohua Electronic Co.	CT 7	Y1, AC250V, max 2200pF, 30/125/56/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
Alt. use	Jyh Chung Electronic Co., Ltd.	JD	Y1, AC250V, max 2200pF, 40/085/21/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 137027 UL E187963
Alt. use	Jerro Electronics Corp.	JX-series	Y1, AC250V, max 2200pF, 40/125/21/C	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40032158 UL E333001
X capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	СТХ	Min. 300VAC, Max. 0.47µF,110 ºC, X1 or X2	IEC 60950-1 UL 60384-14 UL 1414	Tested with appliance UL E193049
Alt. use	Tenta Electric Industrial Co. Ltd.	MEX	Min. 250VAC, Max. 0.47μF, 40/100/21/B, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 119119 UL E222911
Alt. use	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/105/21/B, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40032481 UL E216807



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Alt. use	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250VAC, Max. 0.47μF, 40/100/21/C, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40015608 UL E183780
Alt. use	Yuon Yu Electronics Co. Ltd.	MPX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40032392 UL E200119
Alt. use	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40014686 UL E237560
Alt. use	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40022417 UL E311166
Alt. use	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
Alt. use	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Min. 250VAC, Max. 0.47μF, 40/110/56/B, X1 or X2	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40018690 UL E252286
Photo coupler (U2/U3) (U2 for GTM91120 series)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm Int. , dcr=6.0mm EXT.dcr=7.7mm, thermal cycling test,110°C	IEC/EN 60747- 5-2	VDE 132249
Alt. use	COSMO Electronics Corporation	K1010 / KP1010	Dti=0.6mm Int. , dcr=4.0mm EXT.dcr=5.0mm, thermal cycling test,115°C	IEC/EN 60747- 5-2	VDE 101347



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Alt. use	Lite-On Technology Corporation	LTV-817	Dti=0.8mm Int. , EXT.dcr=7.8mm, thermal cycling test, 110°C	IEC/EN 60747- 5-2	VDE 40015248
Alt. use	Fairchild Semiconductor Pte Ltd.	H11A817B / FOD817B	Insulation voltage: 850V; Transient overvoltage: 6000V; CTI175; Int. Cr/ Ext. Cr: ≥7,0/ 7,0 mm; 30/110/21	IEC/EN 60747- 5-2	VDE 40026857
Alt. use	Sharp Corporation Electronic Components and Devices Group	PC817	Insulation voltage: 890V; Transient overvoltage: 9000V Int. Cr/ Ext. Cr: 7.62/ 7.62 mm; 30/ 110 /21	IEC/EN 60747- 5-2	VDE 40008087
Alt. use	Bright Led Electronics Corp.	BPC-817 A/B/C/D/L BPC-817 M BPC-817 S	Dti=0.4mm EXT.dcr=7.0mm, thermal cycling test, 110°C	IEC/EN 60747- 5-2	VDE 40007240
Alt. use	Toshiba Corporation Semiconductor & Storage Products Company	TLP781F	Dti > 0.4mm, Ext cr > 8.0mm, Isolation 3000Vac min., 110°C min., Thermal cycling test	IEC/EN 60747- 5-2	VDE 40021173
Varistor MOV/MOV1 (Optional) (MOV for GTM91120 series)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alt. use	Centra Science Corp.	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 4008220



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Alt. use	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40030401
Alt. use	Walsin Technology Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40010090
Alt. use	Lien Shun Electronics Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40005858
Alt. use	Ceramate Techn. Co., Ltd.	GNR10D471K GNR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40031745
Alt. use	Brightking (Shenzhen) Co., Ltd.	14D471K 10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027827
Alt. use	Joyin Co., Ltd.	JVR10N471K JVR14N471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005937
Appliance inlet CON1 Class I units(C6 type)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032465
Alt. use	Rich Bay Co., Ltd.	R-30790	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030381
Alt. use	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034448
Alt. use	TECX-UNIONS Technology Corporation	TU-333	2.5A, 250Vac	IEC/EN 60320-1	ENEC 00633
Alt. use	Rong Feng Industrial Co., Ltd.	RF-190	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030379
Alt. use	Inalways Corporation	0724	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010080



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Alt. use	Zhe Jiang Bei Er jia	ST-A04-002	2.5A, 250Vac	IEC/EN 60320-1	VDE 40016045
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-2	2.5A, 250Vac	IEC/EN 60320-1	VDE 40015580
Appliance inlet CON1 Class I units (C14 type)	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac	IEC/EN 60320-1	VDE 40032137
Alt. use	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac	IEC/EN 60320-1	VDE 40030228
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac	IEC/EN 60320-1	VDE 40034447
Alt. use	TECX-UNIONS Technology Corporation	TU-301-S, TU-301-SP	10A, 250Vac	IEC/EN 60320-1	ENEC 00647
Alt. use	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
Alt. use	Inalways Corporation	0711	10A, 250Vac	IEC/EN 60320-1	ENEC 2010084
Alt. use	Zhe Jiang Bei Er jia	ST-A01-003J	10A, 250Vac	IEC/EN 60320-1	VDE 40013388
Appliance inlet CON1 Class II units (C8 type)	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032028
Alt. use	Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030384
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034449
Alt. use	TECX-UNIONS Technology Corporation	SO-222	2.5A, 250Vac	IEC/EN 60320-1	VDE 40043268
Alt. use	Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030168
Alt. use	Inalways Corporation	0721	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010087
Alt. use	Zhe Jiang Bei Er jia	ST-A03-005	2.5A, 250Vac	IEC/EN 60320-1	VDE 40014833
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40025531



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Input connector CON1 (For open frame)	NELTRON INDUSTRIAL CO LTD	2114S	Min 240V; Min 1.5A; Flame class min. V-2;	IEC/EN 60950-1	Tested with appliance UL E144392
Alt. use	JOINT TECH ELECTRONIC INDUSTRIAL CO LTD	A7920 series A3960 series	Min 250V; Min 7A; Flame class min. V-2;	IEC/EN 60950-1	Tested with appliance UL E179987
Alt. use	ZHEJIANG HONGXING ELECTRICAL CO LTD	HX396XX- YYY series	Min 250V; Min 5A; Flame class min. V-2;	IEC/EN 60950-1	Tested with appliance UL E228500
Earthing wire for Class I model	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E237831
Alt. use	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E333601
Alt. use	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E315628
Alt. use	YONG HAO ELECTRICAL INDUSTRY CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E240426
Alt. use	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E204204
Alt. use	SHENG YU ENTERPRISE CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E219726
Alt. use	KUNSHAN XINGHONGMENG ELECTRONIC CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E315421



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Alt. use	SUZHOU YEMAO ELECTRONIC CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E353532
Connection wiring for encapsulated models	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015, 2468	Min. 20 AWG, Min. 300V, Min. 80°C	IEC/EN 60950-1	Tested with appliance UL E237831
Alt. use	Interchangeable	1015, 2468	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL approved
Output cord	Interchangeable	Interchangeab le	Min. 24AWG, min. 300Vac, min. 80°C	IEC/EN 60950-1 UL 758	Tested with appliance UL approved
Heat- shrinkable tubing	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	RSFR, RSFR- H, RSFR-HPF	600V, 125 ℃	IEC/EN 60950-1	Tested with appliance UL E203950
Alt. use	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E225897
Alt. use	DONGGUAN SALIPT CO LTD	SALIPT S- 901-300 SALIPT S- 901-600	Min. 300V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E209436
Alt. use	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E214175
Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	IEC/EN 60950-1 UL 224	Tested within appliance UL E180908
Transformer (T1)1)	GlobTek / ENG / BOAM / HAOPUWEI	See attachment for details	Class B, with critical component listed below	IEC 60950-1	Tested with appliance
- Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U (UL E201757)	MW28-C, 130°C	IEC 60950-1	Tested with appliance



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Alt. use	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U (UL E201757)	MW75-C, 130ºC	IEC 60950-1	Tested with appliance
Alt. use	JUNG SHING WIRE CO LTD	UEW-4 (UL E174837)	MW75C, 130°C	IEC 60950-1	Tested with appliance
Alt. use	JUNG SHING WIRE CO LTD	UEY-2 (UL E174837)	MW28-C, 130°C	IEC 60950-1	Tested with appliance
Alt. use	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130 (UL E335065)	MW75-C, 130ºC	IEC 60950-1	Tested with appliance
Alt. use	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130 (UL E158909)	MW75-C, 130ºC	IEC 60950-1	Tested with appliance
Alt. use	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB (UL E206882)	MW75#, 130ºC	IEC 60950-1	Tested with appliance
Alt. use	JIANGSU DARTONG M & E CO LTD	UEW (UL E237377)	MW 75-C, 130°C	IEC 60950-1	Tested with appliance
Alt. use	SHANDONG SAINT ELECTRIC CO LTD	UEW/130 (UL E194410)	MW75#, 130ºC	IEC 60950-1	Tested with appliance
Alt. use	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW (UL E222214)	MW 79#, 130ºC	IEC 60950-1	Tested with appliance
-Triple- insulated wire (Secondary)	Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	IEC 60950-1 UL 2353 UL 60601-1	VDE 136581 UL E211989
- Alt. use	COSMOLINK CO. Ltd.	TIW-M Serie(s)	Class B, reinforced insulation	IEC 60950-1 UL 2353 UL 60601-1	VDE 138053 UL E213764



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- Alt. use	Furukawa Electric Co., Ltd. Electronics & Automotive Systems Company Global Business Development Division	TEX-E	Class B, reinforced insulation	IEC 60950-1 UL 2353 UL 60601-1	VDE 006735 UL E206440
- Alt. use	TOTOKU ELECTRIC CO LTD	TIW-2	Reinforced insulation, rated 130° C (Class B)	UL 2353 UL60950-1 UL 60601-1	VDE 40005152 UL E249037
- Alt. use	E&B TECHNOLOGY CO LTD	E&B-XXXB E&B-XXXB-1	Reinforced insulation, Class B	IEC 60950-1 UL 2353 UL 60601-1	VDE 40023473 UL E315265
- Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW	Reinforced insulation, Class B	IEC 60950-1 UL 2353 UL 60601-1	Tested with appliance UL E249037
- Alt. use	SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	Reinforced insulation, Class B	IEC 60950-1 UL 2353 UL 60601-1	VDE 40037495 UL E357999
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J T375HF	V-0, 150°C, thickness 0,45 mm min.	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
- Alt. use	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0,74 mm min.	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
- Alt. use	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0,45 mm min.	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E41429
- Alt. use	HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0,45 mm min.	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E42956
-Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350T-1 44	Min.130°C	IEC 60950-1 UL 510	Tested with appliance UL E17385



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- Alt. use	BONDTEC PACIFIC CO LTD	370S	Min.130°C	IEC 60950-1 UL 510	Tested with appliance UL E175868
- Alt. use	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT WF	Min.130°C	IEC 60950-1 UL 510	Tested with appliance UL E165111
- Alt. use	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C	IEC 60950-1 UL 510	Tested with appliance UL E246950
- Alt. use	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C	IEC 60950-1 UL 510	Tested with appliance UL E246820
-PTFE tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT / TFS	Min. 300V, 200°C	IEC 60950-1	Tested with appliance UL E156256
-Alt. use	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C	IEC 60950-1	Tested with appliance UL E203950
-Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T / CB- TT-S	Min. 300V, 200°C	IEC 60950-1	Tested with appliance UL E180908
Enclosure (all parts)	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	PPE+PS, Min. V- 1, Min. thickness:2.0mm, 105°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V- 1, Min. thickness:2.0mm, 95°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	C2950	PC/ABS, Min. V- 0, Min. thickness:2.0mm, 85°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329



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Verdict

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Alt. use	SABIC INNOVATIVE PLASTICS B V	CX7211 EXCY0098	PC/ABS, Min. V- 1, Min. thickness:2.0mm, 90°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness:2.0mm, 125°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	PC, Min. V-0, Min. thickness:2.0mm, 115°C	IEC 60950-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E50075
Coupler	GlobTek, Inc.	Q-coupler	Max. 240V, Max. 2.0A	IEC 60320-1	Tested with appliance

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

For all transformers under all manufacturers.

Attachment for transformer as below:						
Product Model	Voltage Range	Transformer	Product Model	Voltage Range	Transformer	
		model			model	
GTM96180	5V-8V	TF042	GTM96300	5-8.9V	TF038	
	8.1V-14.9V	TF043		9-11.9V	TF057	
	15V-18.9V	TF044		12-14.9V	TF039	
	19V-30V	9V-30V TF045	15-24V	TF040		
	30.1V-48V	TF046		24.1-48V	TF041	
GTM96180	18V	TF064	GTM96300	18V	TF068	
POE	24V	TF065	POE	24V	TF069	
	36V	TF066		36V	TF070	
	48V	TF067		48V	TF071	
	54V, 56V	TF063		54V, 56V	TF051	
GTM91120	5-7.5V	GT-3005001				
GTM91128	7.6V-10.5V	GT-3009001				
series	10.6V-14.5V	GT-3012001				
	14.6V-19.5V	GT-3015001]			
	19.6V-24V	GT-3024001]			
	24.1V-48V	GT-3048001				



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IEC 60950-1 Clause Requirement + Test **Result - Remark**

1.6.2	TABLE: E	lectrical data	a (in normal	conditions)			Р
Model: GTN	M96180-1507	'-2.0-T3					
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
90	0.345		18.69	F1/F2	0.345	Max Normal Load	
100	0.319	0.6	18.53	F1/F2	0.319	Max Normal Load	
240	0.148	0.6	18.03	F1/F2	0.148	Max Normal Load	
264	0.138		18.11	F1/F2	0.138	Max Normal Load	
Supplementary information: with R22, R23 and without R24							
Model: GTM	/ 196180-1507	'-2.0-T3					
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
90	0.344		18.82	F1/F2	0.344	Max Normal Load	
100	0.317	0.6	18.61	F1/F2	0.317	Max Normal Load	
240	0.148	0.6	18.09	F1/F2	0.148	Max Normal Load	
264	0.137		18.10	F1/F2	0.137	Max Normal Load	
Supplemen	tary informat	ion: without F	R22, R23 and	with R24			
Model: GTM	M96180-1848	3-T2					
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
90	0.371		19.65	F1/F2	0.371	Max Normal Load	
100	0.345	0.6	20.51	F1/F2	0.345	Max Normal Load	
240	0.175	0.6	20.00	F1/F2	0.175	Max Normal Load	
264	0.162		20.10	F1/F2	0.162	Max Normal Load	
Supplemen	tary informat	ion: without l	neatsink for [02			



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IEC 60050-1

	IE	C 60950-1	
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements			Р	
	Supply voltage (V):	90			
	Ambient T _{min} (°C):	40			
	Model	GTM9618	0-1848-T2		
Maximum measured temperature T of T (°C) part/at:		°C)	Allowe d T _{max} (°C)		
PCB near (CY2	75		130	
PCB near I	02	82		130	
Enclosure (inside near D2)		61		85	
Supplemer	Supplementary information: : without heatsink for D2				

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Clause

IEC60950_1F - ATTACHMENT

Result - Remark

Verdict

APPENDIX ZZ VARIATIONS TO IEC 60950-1, ED. 2.2 (2013) FOR AUSTRALIA AND NEW ZEALAND

Differences according to.....:

AS/NZS 60950.1:2015

ZZ1 INTRODUCTION

This Appendix sets out variations and additional requirements to cover issues which have not been addressed by the International Standard. These variations indicate national variations for purposes of the IECEE CB System and will be published in the IECEE CB Bulletin.

ZZ2 VARIATIONS

The following variations apply to the source text.

Requirement + Test

	g variations apply to the source text.	
1.2	After definition 'PERSON, SERVICE', insert the following new definition: POTENTIAL IGNITION SOURCE1.2.12.201	Р
1.2.12.201	After Clause 1.2.12.15, insert the following new clause: 1.2.12.201 POTENTIAL IGNITION SOURCE	Р
	Possible fault which can start a fire if the open- circuit voltage measured across an interruption or faulty contact exceeds a value of 50 V (peak) a.c. or d.c. and the product of the peak value of this voltage and the measured r.m.s. current under normal operating conditions exceeds 15 VA. Such a faulty contact or interruption in an electrical connection includes those which may occur in CONDUCTIVE PATTERNS on PRINTED BOARDS. NOTE 1 An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE. NOTE 2 This definition is from AS/NZS 60065:2012, Clause 2.8.11.	
1.5.1	 First paragraph, insert the following text after the words 'IEC component standard': 'or the relevant Australian/New Zealand Standard.' In the NOTE, insert the following text after the 	Ρ
	 3. Second paragraph, delete the words 'without further evaluation'. 	



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		IEC60950_1	F - ATTACHN		
Clause	Requirement + Test			Result - Remark	Verdict
1.5.2	 First paragraph, insert the following text after the word 'standard': 'or an Australian/New Zealand Standard.' 				P
	 First paragraph, seco line, insert the followi 'standard' : 'or an Australian/New 	ng text after	the word		
	 First paragraph, seco Insert the following te 'standard' : 'or an Australian/New 	xt after the w	vord		
1.7.1.3	Delete existing text and re	eplace with th	ne		Р
	Graphical symbols placed on the equipment as a requirement of this standard, shall be in accordance with IEC 60417 or ISO 3864-2 or ISO 7000, if available. In the absence of suitable symbols, the manufacturer may design specific graphical symbols.				
	Symbols as required by the equipment shall be eximanual.				
2.9.2	Second paragraph, delete	e the word 'd	esignated'.		Р
3.2.5.1	Modify Table 3B as follows:				N/A
Table 3B	1. Delete the first four rows and replace with the following:				
	RATED CURRENT of equipment A Over 0.2 up to and including	Minimum cor Nominal cross- sectional area mm ² 0,5 °	AWG or kcmil [cross- sectional area in mm ²] see Note 2 18 [0,8]		
	3 Over 3 up to and including	0,75	16 [1,3]		
	7.5 Over 7.5 up to and including	(0,75) ^b 1,00	16 [1,3]		
	10 Over 10 up to and including 16	(1,0) °1,5	14 [2]		
	2. Delete NOTE 1 and renumber existing NOTE 2 as 'NOTE'				
	3. Delete Footnote ^a and replace with the following:				
	^a This nominal cross-section Class II appliances if the len cord, measured between the cord guard, enters the applia plug does not exceed 2 m (C flexible cords are not permitt	gth of the pow e point where t ance, and the 1,5 mm ² three-	er supply the cord, or entry to the core supply		



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IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
4.1.201	After Clause 4.1, insert new Clause 4.1.201 as follows: 4.1.201 Display devices used for television purposes Display devices which may be used for television purposes, with a mass of 7 kg or more, shall comply with the requirements for stability and mechanical hazards, including the additional stability requirements for television receivers, specified in AS/NZS 60065.		N/A	
4.3.6	Delete the third paragraph and replace with the following: Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flatpin socket-outlet complying with AS/NZS 3112 shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.		N/A	
4.3.8	Eighth paragraph, insert the following new note after the first dash item: NOTE 6.201 In cases where the voltage source is provided by power from an unassociated power source, consideration should be given to the effects of possible single fault conditions in the unassociated equipment. If the power source is unknown then it should be assumed that the maximum limit of SELV may be applied to the source input under assumed single fault conditions in the source when assessing the charging circuit in the equipment under test.		N/A	
4.3.8.201	After Clause 4.3.8, add the following new clause as follows: 4.3.8.201 Products containing coin/button cell batteries and batteries designated R1 The requirements of AS/NZS 60065:2012 Amendment 1:2015, Clause 14.10.201 apply for this Clause.		N/A	
4.3.13.5.1	 Delete the first paragraph and replace with the following: Except as permitted below, equipment shall be classified and labelled according to IEC 60825-1 or AS/NZS 60825.1, IEC 60825-2 or AS/NZS 60825.2 and IEC 60825-12, as applicable. Third paragraph, first sentence, after 'IEC 60825-1', insert the following text: or AS/NZS 60825.1 Fourth paragraph, after 'IEC 60825-1', insert the following text: or AS/NZS 60825.1 		N/A	
1.7	At the end of Clause 4.7, insert the following text:		P	

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Modification 1:2018-04-08

IEC60950_1F - ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdic		
1.7.201	After Clause 4.7.3.6, add new Clauses as follows: 4.7.201 Resistance to fire – Alternative tests		N/A		
1.7.201.1	4.7.201.1 General		N/A		
	Parts of non-metallic material shall be resistant to ignition and spread of fire. This requirement does not apply to decorative				
	trims, knobs and other parts unlikely to be ignited or to propagate flames from inside the apparatus, or the following:				
	(a) Components that are contained in an enclosure having a flammability category of V-0 according to AS/NZS 60695.11.10 and having openings only for the connecting wires filling the openings completely, and for ventilation not exceeding 1mm in width regardless of length.				
	(b) The following parts which would contribute negligible fuel to a fire:				
	- small mechanical parts, the mass of which does not exceed 4g, such as mounting parts, gears, cams, belts and bearings;				
	- small electrical components, such as capacitors with a volume not exceeding 1,750 mm ³ , integrated circuits, transistors and optocoupler packages, if these components are mounted on material of flammability category V-1, or better, according to AS/NZS 60695.11.10.				
	NOTE In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating the fire from one part to another.				
	Compliance shall be checked by the tests of 4.7.201.2, 4.7.201.3, 4.7.201.4 and 4.7.201.5.				
	For the base material of printed boards, compliance shall be checked by the test of 4.7.201.5.				
	The tests shall be carried out on parts of non- metallic material which have been removed from the apparatus. When the glow-wire test is carried out, the parts shall be placed in the same orientation as they would be in normal use.				
	These tests are not carried out on internal wiring.				

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		WOULD	alion 1.2016-04-0
	IEC60950_1F - ATTACH	MENT	
Clause	Requirement + Test	Result - Remark	Verdict
4.7.201.2	4.7.201.2 Testing of non-metallic materials		N/A
	Parts of non-metallic material shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 550 °C.		
	Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category FH-3 material. The glow- wire test shall be not carried out on parts of material classified at least FH-3 according to ISO 9772 provided that the sample tested was not thicker than the relevant part.		

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		IEC60950_1F - ATTACH		
Clause	Requirement + Te	st	Result - Remark	Verdict
4.7.201.3	-	of insulating materials		N/A
	subject to the glow-	ION SOURCES shall be		
	insulating material v 3 mm of the connec	onents such as switch contacts are		
	produce a flame, ot connection within th cylinder having a di of 50 mm shall be s test. However, parts	nstand the glow-wire test but her parts above the ne envelope of a vertical ameter of 20 mm and a height ubjected to the needle-flame is shielded by a barrier which ame test shall not be tested.		
	The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 with the following modifications:			
	Clause of AS/NZS 60695.11.5 9 Test procedure 9.2 Application of needleflame 9.3 Number of test specimens	Change Replace the first paragraph with: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1. If possible the flame shall be applied at least 10 mm from a corner Replace the second paragraph with: The duration of application of the test flame shall be 30 s ±1 s. Replace with: The test shall be made on one specimen. If the specimen does not withstand the test, the test		
	11 Evaluation of test results	may be repeated on two further specimens, both of which shall withstand the test. Replace with: The duration of burning (t _b) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.		



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NOTE 3 Parts likely to be impinged upon by the flame are considered to be those within the envelope of a vertical cylinder having a radius of 10 mm and a height equal to the height of the flame, positioned above the point of the material

supporting, in contact with, or in close proximity to, connections.

Modification 1:2018-04						
	IEC60950_1F - ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict			
	parts of material classified as V-0 or V-1 according to AS/NZS 60695.11.10, provided that the sample tested was not thicker than the relevant part.					
4.7.201.4	 4.7.201.4 Testing in the event of non-extinguishing material If parts, other than enclosures, do not withstand the glow wire tests of 4.7.201.3, by failure to extinguish within 30 s after the removal of the glowwire tip, the needle-flame test detailed in 4.7.201.3 shall be made on all parts of non-metallic material which are within a distance of 50 mm or which are likely to be impinged upon by flame during the tests of 4.7.201.3. Parts shielded by a separate barrier which meets the needle-flame test need not be tested. NOTE 1 If the enclosure does not withstand the glow-wire test the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing. NOTE 2 If other parts do not withstand the glow-wire test due to ignition of the tissue paper and if this indicates that burning or glowing particles can fall onto an external surface underneath the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing. 		N/A			

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IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
.7.201.5	4.7 201 5 Testing of printed boards		N/A	
.7.201.5	 4.7.201.5 Testing of printed boards The base material of printed boards shall be subjected to the needle-flame test of Clause 4.7.201.3. The flame shall be applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a POTENTIAL IGNITION SOURCE. The test is not carried out if the — Printed board does not carry any POTENTIAL IGNITION SOURCE; Base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability category V-1 or better according to AS/NZS 60695.11.10, or the printed boards are protected by an enclosure meeting the flammability category V-0 according to AS/NZS 60695.11.10, or made of metal, having openings only for connecting wires which fill the openings completely; or Base material of printed boards, on which the available apparatus power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards, on which the available apparatus power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category V-0 according to AS/NZS 60695.11.10 or the printed boards are contained in a metal enclosure, having openings only for connecting wires which fill the openings completely. Compliance shall be determined using the smallest thickness of the material. NOTE Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose valu			
.2.2	is disconnected. For Australia only, delete the first paragraph and Note, and replace with the following:	No TNV.	N/A	
	In Australia only, compliance with 6.2.2 shall be checked by the tests of both 6.2.2.1 and 6.2.2.2.			



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	IEC60950_1F - ATTACH	IMENT	
Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.1	For Australia only, delete the first paragraph including the Notes, and replace with the following: <i>In Australia only, the electrical separation is</i> <i>subjected to 10 impulses of alternating polarity,</i> <i>using the impulse test generator reference 1 of</i> <i>Table N.1. The interval between successive</i> <i>impulses is 60 s and the initial voltage, Uc, is:</i> <i>(i) for 6.2.1 a): 7.0 kV for hand-held telephones</i> <i>and for headsets and 2.5 kV for other equipment;</i> <i>and</i> <i>(ii) for 6.2.1 b) and 6.2.1 c): 1.5 kV.</i> NOTE 201 The 7 kV impulse simulates lightning surges on typical rural and semi-rural network lines. NOTE 202 The value of 2.5 kV for 6.2.1 a) was chosen to ensure the adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.	No TNV.	N/A
6.2.2.2	For Australia only, delete the second paragraph including the Note, and replace with the following: <i>In Australia only, the a.c. test voltage is:</i> (<i>i</i>) for 6.2.1 a): 3 kV; and (<i>ii</i>) for 6.2.1 b) and 6.2.1 c): 1.5 kV. NOTE 201 Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used. NOTE 202 The 3 kV and 1.5 kV values have been determined considering the low frequency induced voltages from the power supply distribution system.	No TNV.	N/A
7.3	Add the following before the first paragraph: Equipment providing functions that fall only within the scope of AS/NZS 60065 and that incorporate a PSTN interface, are not required to comply with this Clause where the only ports provided on the equipment, in addition to a coaxial cable connection and a PSTN interface, are audio or video ports and analogue or data ports not intended to be used for telecommunications purposes.	No cable distribution systems.	N/ A
Annex P	Add the following Normative References: AS/NZS 3191, Electric flexible cords AS/NZS 3112, Approval and test specification— Plugs and socket-outlets		Р

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	IEC60950_1F - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
Index	 Insert the following between 'asbestos, not be used as insulation' and 'attitude see orientation': AS/NZS 31124.3 AS/NZS 3191	3.6 3B) 01 1.3 1.5 1.3 5.1	P	
	 Insert the following between 'positive temperature coefficient (PTC) device' and 'powder': Potential ignition source	 .5		

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Clause Requirement + Test

IEC60950_1F - ATTACHMENT

Result - Remark

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	National Differences	
1.2.4.1	Add the following new notes. Note: Even if the equipment is designed as Class I, the equipment is regarded as CLASS 0I EQUIPMENT (see 1.2.4.3A) when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended.	N/A
1.2.4.3A	Add the following new clause. 1.2.4.3A CLASS 0I EQUIPMENT	N/A
	Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by:	
	- using BASIC INSULATION, and	
	 providing either of the following a) or b) in order to connect those conductive parts that might assume a HAZARDOUS VOLTAGES in the event of BASIC INSULATION fault to the PROTECTIVE EARTHING CONDUCTOR in the building wiring. 	
	a) Provision of 2-pin plug with earthing lead including the condition of that 2-pin adaptor with earthing lead wire is provided or recommended.	
	 b) Provision of an independent earthing terminal, when 2-core mains cord (without earthing conductor) is used. 	
	Note – CLASS 0I EQUIPMENT may have a part constructed with Double Insulation or Reinforced Insulation.	

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	IEC60950_1F - ATTACH		ion 1:2018-04-08
Clause	Requirement + Test	Result - Remark	Verdict
1.3.2	Add the following notes after the first parag Note 1 Transportable or similar equipment of relocated frequently for intended usage sho designed as Class I or CLASS OI EQUIPMEN intended to be installed by service personne Note 2 Considering wiring circumstance in a equipment intended to be installed where the for earthing connection is unlikely should no as Class I or CLASS OI EQUIPMENT unless in be installed by service personnel.	that are buld not be IT unless it is el. Japan, he provision ot be designed	N/A
1.5.1	 Replace the first paragraph with the follows Where safety is involved, components shall with the requirements of this standard, with aspects of the relevant JIS component standards, or component standards, or component shall equivalent to or better properties than these Replace Note 1 with the following: Note 1 Components complying with the interval or distance on stipulating technic requirements for the Electrical Appliance is have equivalent to or better performance. Note 2 JIS or an IEC component standard is relevant only if the component in question or within its scope. Add the following after the last paragraph: For an appliance connector that is able to fit appliance inlet compatible with the standard for comply with relevant standard sheet of IEC C 8283-1. A power supply cord set complying with this requires Note 3 A power supply cord set provided w connector that is able to fit with appliance in with the standard sheet of IEC 60320-1 or JIS comply with this requires Note 3 A power supply cord set provided w connector that is able to fit with appliance in with the standard sheet of IEC 60320-1 or JI should comply with JIS c 8286. 	comply either a the safety dard, or IEC have e. erpretation of cal regarded to s considered clearly falls t with d sheet of IEC nector shall 60320-1 or JIS ng with JIS C ement. ith appliance nlet compatible	P
1.5.2	Add the following Note 2 after the 4th dash Note 2 See 1.7.5A when Type C.14 applian rated 10 A per JIS C 8283-1 is used with an rated not more than 125 V and rated more t	ce coupler equipment	N/A

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IEC60950_1F - ATTACHMENT				
Clause	Clause Requirement + Test Result - Remark Verd			
	•			1

1.5.5	Add the following Note after the last paragraph: NOTE An interconnection cord sets provided with interconnecting coupler for mains supply complying with JIS C 8283-2-2 should comply with JIS C 8286.	N/A
1.5.9.1	Add the following in the last of NOTE 1. Gas discharge tube connected in series with VDR may be used.	N/A
1.7	Replace EE.2 and EE.4 with the following: JA.1 Shredder warning JA.3 Shredder power disconnection	Р
1.7.1.2	Replace first and second dashed paragraphs with the followings: - manufacturer's or responsible company's name or trade- mark or identification mark; - manufacturer's or responsible company's model identification or type reference;	N/A
1.7.2.1		
1.7.2.5	Replace the last sentence with the following: An acceptable marking for an electric shock hazard is (6.2.4 of JIS S 0101).	N/A
1.7.5	Replace the second paragraph with the following. Socket-outlets conforming to JISC8282-1 are examples of standard power supply outlets.	N/A

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	IEC60950_1F - ATT	ACHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
Clause 1.7.5A	Requirement + Test Add the following new clause after 1.7.5 1.7.5A Power supply cord set If appliance coupler according to IEC603 current: 10A) is used in equipment whose less than 125V and rated current is over instruction or equivalent shall be describe operating instruction. "Use only designated cord set attached equipment" <i>Example in Japanese:</i> "この機器に同こん(欄)した指定の電源コードセットが If appliance coupler is used for connecti and if the cord set is not provided withi the equipment, suitable information reg set shall be described in the operating in Note Since the combination of app with earthing pin and two-core core earthing conductor) is special, the cord attached in the equipment and the operation attached in the equipment and the operation should provide the information that the exclusively used with the equipment and	5. B20-1, C.14(rated se rated voltage is 10A, the following bed in the in this E好を使用して下さい。" on to the mains n the package for arding to the cord nstruction pliance inlet rd set (without d set should be ating <i>instruction</i> <i>cord set is</i>	Verdict

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	IEC60950_1F - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
1.7.14A	Add the following new clause after 1.7.14. 1.7.14A Marking for CLASS 0I EQUIPMENT For CLASS 0I EQUIPMENT, the following or instructions shall be marked. - the following instruction shall be marked plug or on the visible place of the main bod "Provide an earthing connection" <i>Example in Japanese:</i> "必ず接地接続を行ってください。" - the following instruction shall be marked place of the main body or written in the op instructions: "Provide an earthing connection before the connected to the mains. And, when disconr earthing connection, be sure to disconnect a out the mains plug from the mains."	equivalent on the mains ly on the visible erating mains plug is necting the	N/A	
1.7.14B	Example in Japanese: 接地接続は必ず,電源プラグを電源につなぐ前に行ってください。 また,接地接続を外す場合は,必ず電源プラグを電源から切り離し Add the following new clause after 1.7.14A 1.7.14B Protective earthing conductor used EQUIPMENT For CLASS 0I EQUIPMENT provided with in main protective earthing terminal, where th protective earthing connection is not provided package for the equipment, the suitable info the protective earthing connection shall be	l for CLASS 0I dependent le cord for the led within the prmation for	N/A	

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	IEC60950_1F - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
2.1.1.1	 Replace item b) of 2.1.1.1with the following. b) A test with the test finger, Figure 2A, which contact parts described above when applied t in the ENCLOSURES after removal of parts th detached by an OPERATOR, including fuseho with OPERATOR access doors and covers ope permitted to leave lamps in place for this test that can be separated by an OPERATOR, othe complying with JIS C 8303 or JIS C 8285 or IE series or JIS C 8283 series or IEC 60320 series be tested during disconnection. But even if th does not comply with these standards, the on equivalent to or better performance need not during disconnection. Note 4 Connectors complying with Appendix interpretation of Ministerial Ordinance on stip technical requirements for the Electrical Applir regarded to have equivalent to or better performance 	est finger, Figure 2A, which shall not ribed above when applied to openings ES after removal of parts that can be PERATOR, including fuseholders, and ccess doors and covers open. It is lamps in place for this test. Connectors ted by an OPERATOR, other than those S C 8303 or JIS C 8285 or IEC 60309 3 series or IEC 60320 series, shall also isconnection. But even if the connector with these standards, the one having etter performance need not be tested ion. complying with Appendix 4 of the linisterial Ordinance on stipulating tents for the Electrical Appliance is		
2.5	Replace "IEC 60730-1" with "JIS C 9730-1" (ir	n item b)).	N/A	
2.6.2	• the symbol ,IEC 60417-5018 (2011-0	07);	N/A	
2.6.3.2	 Add the following after the first paragraph. However where the single core conductor is a protective earthing lead or earthing cord for C EQUIPMENT, either of the following condition met. Use of annealed copper wire with 1.6 mm di corrosion-inhibiting metal wire having equiva more strength and thickness. Single core cord or single core cab tire cable mm² or more cross-sectional area 	CLASS 0I n shall be iameter or alent to or	N/A	
2.6.3.5	Add the following after the first paragraph. However this requirement does not apply to i conductor of the cord set that is covered by th mains cord and is formed together with main appliance connector.	he sheath of	N/A	

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IEC60950_1F - ATTACHMENT			
Clause	Requirement + Test Re	esult - Remark	Verdict
2.6.4.2	Replace the first paragraph with the following. Equipment required to have protective earthing sh a main protective earthing terminal. For equipment with a DETACHABLE POWER SUPP CORD, the earthing terminal in the appliance inlet regarded as the main protective earthing terminal. However, for CLASS 0I EQUIPMENT provided with separate main protective earthing terminal other th appliance inlet, the separate main protective earthing terminal may be treated as mains protective earthing terminal.	PLY is the nan ing	N/A
2.6.5.4	Replace the first sentence with the following. Protective earthing connections of CLASS I EQUIPI shall make earlier and break later than the supply connections in each of the following: Add the following after last paragraph: Note For CLASS 0I EQUIPMENT,1.7.14A is applied of this requirement.		N/A
2.6.5.8A	Add the following new clause after 2.6.5.8 2.6.5.8A Earthing of CLASS 0I EQUIPMENT Plugs with a lead wire for earthing shall not be use equipment having a rated voltage exceeding 150V. For plugs with a lead wire for earthing, the lead wi not be earthed by a clip. CLASS 0I EQUIPMENT shall be provided with an ea- terminal or lead wire for earthing in the external lo where easily visible.	re shall arthing	N/A
2.7.6	Replace "ISO 3864, No. 5036" with "6.2.4 of JIS S	0101″.	N/A
2.10.3.1	Replace the 8th paragraph with the following The above minimum CLEARANCE for connectors of apply to connectors that comply with JIS C 8285, II series of standards, JIS C 8283 series of standards, IEC60320 series of standards, JIS C 8303, or even if not comply with the above standards but the one h equivalent to or better performance and dimension comply with JIS C 8283 series of standards, JIS C 8 IEC 60309-2. Note Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance regarded to have equivalent to or better performance	EC60309 , f it does naving n which 3303 or e ng is	N/A

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		Iviounical	1011 1.2010-04-00
	IEC60950_1F - AT	TACHMENT	
Clause	Requirement + Test Result - Remark		Verdict
2.10.3.2 Table 2J	In Japan, the value of the main power voltage for the nominal ac main power 100 V is determined by applying the ro power supply voltage 150 V.	supply voltage of	N/A
2.10.4.3	Replace the 6th paragraph with the fol The above minimum CREEPAGE DIST/ connectors do not apply to connectors JIS C 8285, IEC60309 series of standard of standards, IEC60320 series of standard even if it does not comply with the abo the one having equivalent to or better dimension which comply with JIS C 82 standards, JIS C 8303 or IEC 60309-2.	ANCE for that comply with ds, JIS C 8283 series ards, JIS C 8303, or ove standards but performance and 283 series of	N/A

	standards, JIS C 8303 or IEC 60309-2. Note Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.		
2.10.9	Replace "1.4.5" in the third paragraph with "1.4.12".		N/A
3.2.3	Add the following after the third paragraph. Table 3A applies when cables complying JIS C 3662 series of standards or JIS C 3663 series of standards are used. In case of other cables, cable entries shall be so designed that the cable could be fitted in a conduit.		N/A
3.2.4	Add the following as 4th dashed paragraph. - be so constructed that mechanical stress shall not transmit to the soldering part of inlet terminal during insertion or removal of the connector except that the body of the inlet is secured and is secured not only soldering.		N/A

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	IEC60950_1F - ATTACHN	1ENT	
Clause	Requirement + Test	Result - Remark	Verdict
3.2.5.1	Add the following after Note 3: Note 4 In Japan, mains cords having equivale better electro-mechanical and fire	ent to or	N/A
	safety performance as above and complying v Appendix 1 of the interpretation of Ministerial on stipulating technical requirements for the R Appliance can be used.	l Ordinance	
	Replace the paragraph after Note 3 with the fo	ollowing.	
	For equipment required to have protective ear PROTECTIVE EARTHING CONDUCTOR shall be in the MAINS SUPPLY cord except for CLASS EQUIPMENT having separate protective earth conductor from mains cord.	be included Ol	
	Add the following after the second paragraph Note 5 For the cross-sectional area of mains of described in Note 4, relevant Japanese wiring can be applied.	ord	
3.2.5A	Add the following new clause after 3.2.5 3.2.5A AC mains plug Mains plug for PLUGGABLE EQUIPMENT TYP comply with JIS C 8282-1 or equivalent to or performance. Power supply cord set complyin 8286 is regarded to meet the requirements. M with fuse link for PLUGGABLE EQUIPMENT T comply with JIS C 8282-2-1 or equivalent to o performance. Note Mains plug complying with Appendix 4 interpretation of Ministerial Ordinance on stip technical requirements for the Electrical Appli regarded to have equivalent to or better perfo	better ng with JIS C lains plug YPE A shall r better of the pulating iance is	N/A
3.3.4	Add the following note to Table 3D:		N/A
Table 3D	Note For cables other than those complying v 3662 series of standards or JIS C 3663 series of the terminals shall be suitable for the size of t cables.	of standards,	
3.3.7	Add the following after the first sentence: This requirement is not applicable to the extent terminal of CLASS 0I EQUIPMENT.	rnal earthing	N/A

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	IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
4.2.8	Add the following after the first para Note Intrinsically protected picture to comply with JIS C 6965 in clause 18 intrinsically protected picture tube w JIS C 6965 is required to test according of JIS C 6065.	ube is required to of JIS C 6065. No hich is out of scope of	N/A		
4.3.4	Add the following after the first sent This requirement also applies to the CLASS 0I EQUIPMENT, where CLEA DISTANCES over BASIC INSULATIO to less than the values specified in 2	se connections in RANCE or CREEPAGE N would be reduced	N/A		
4.3.5	Replace the first dashed paragraph v Within a manufacturer's unit or syste likely to be used by the OPERATOR of PERSON shall not be employed in a create a hazard due to misconnectio connectors complying with IEC 6032 standards or JIS C 8303 or JIS C 835 SELV CIRCUITS or TNV CIRCUITS. K the case of connectors accessible on PERSON, clear markings are permitt requirement.	em, plugs and sockets or by a SERVICE manner likely to n. In particular, 0/JIS C 8283 series of 8 shall not be used for eying, location or, in ly to a SERVICE	N/A		
4.3.6	Replace the 1st paragraph with the for DIRECT PLUG-IN EQUIPMENT shall stress on the socket-outlet. The main comply with the standard for the rele 3.2.5A)	not impose undue ns plug part shall	N/A		
4.4.2	Replace the paragraph with the following: HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS shall also comply with Annex JA.		N/A		
4.5.3	Add the following note to footnote b NOTE In case no data for the materia Appendix 4, 1. (1). b. 3 of the Interpro Ministerial Ordinance stipulating Teo for Electrical Appliances is regarded temperature limit of the material.	al is available, etation on the chnical Specifications	N/A		
5.1.3	Add a note after the first paragraph a Note – Attention should be drawn to three-phase power system in Japan and therefore, in that case, test is co circuit from IEC 60990, figure 13.	that majority of is of delta connection,	N/A		

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Verdict

IEC60950_1F - ATTACHMENT

Clause Requirement + Test

Result - Remark

ark

5.1.6	Replace Table 5A.	as follows			Р
	Type of equipment	Terminal A of measuring instrument connected to:	Maximum TOUCH CURRENT mA r.m.s. ^a	Maximum PROTECTI VE CONDUCT OR CURRENT	
	ALL equipment	Accessible parts and circuits not connected to protective earth b	0,25	-	
	HAND-HELD	Main protective earthing terminal of CLASS I EQUIPMENT	0,75	-	
		Main protective earthing terminal of CLASS 0 I EQUIPMENT	0,5	-	
	MOVABLE (other than HAND_HELD, but including TRANSPORTABLE	Main protective earthing terminal of CLASS I EQUIPMENT	3,5	-	
		Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0	-	
	STATIONARY, PLUGGABLE TYPE A	Main protective earthing terminal of CLASS I EQUIPMENT	3,5	-	
		Main protective earthing terminal of CLASS 0 I EQUIPMENT	1,0	-	
	ALL other STATIONARY EQUIPMENT - not subject to the	Main protective earthing terminal of CLASS I EQUIPMENT	3.5 -	- 5 % of input current	
	- not subject to the conditions of 5.1.7 - subject to the conditions of 5.1.7	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0 -	-	
	1,414. b Some unearthed acc	d by multiplying the r.	m.s.values in tl ered in 1.5.6 an	he table by d 1.5.7 and	
Annex G	Replace the parage The above minimu apply to connector series of standards IEC60320 series of standard in which series, JIS C 8303 o	im CLEARANCE for s that comply wit s, JIS C 8283 serie standards, JIS C dimension is com	or connector h JIS C 8285 s of standar 8303, and 1.	rs do not 5, IEC60309 ds, 5.1 of this	N/A

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Clause Requirement + Test Result - Remark	Verdict				

Annex V V.1	Replace "3.1.2" in the first line of V.1 with "312" in the first line.	N/A
Annex W W.1	Replace the third sentence in the first paragraph with the following: Floating circuits can exist in CLASS I EQUIPMENT, CLASS 0I EQUIPMENT and earthed circuits can exist in CLASS II EQUIPMENT.	N/A
Annex BB	This annex is not applicable.	N/A
Annex CC CC.2	Replace the third dashed paragraph with the following: - 10 000 cycles of turning enable on and off with the input connected to a capacitor rated 425 uF ± 10 uF and shorting the output;	N/A
CC.3	Add note at end of CC.3: Note: The fast blow fuse should be the one complying with JIS C 6575-2.	N/A
CC.4	Replace the 2nd dashed paragraph with the following: - 10 000 cycles of turning enable on and off with a 100 $\Omega \pm$ 5 Ω resistor and a 425 uF ± 10 uF capacitor in parallel with the output; Replace the 4th dashed paragraph with the following: - 10 000 cycles of turning enable on and off with the input connected to a capacitor rated 425 uF ± 10 uF and shorting the output; Replace the 5th dashed paragraph with the following: -10 000 cycles of turning the input pin on and off with a capacitor rated 425 uF ± 10 uF connected to the input supply while keeping enable active and shorting the output; Replace the 6th dashed paragraph with the following: -10 000 cycles of turning the input pin on and off with an ferrite-core inductor having 350 mH ± 10 mH inductance at 1 kHz and less than 1 Ω d.c. resistance connected to the input supply and return while keeping enable active and shorting the output;Replace the 10th dashed paragraph with the following: -3 cycles of exposing the device (not energized) to 70 °C ± 2 °C for 24 h; followed by at least 1 h at room ambient; followed by at least 3 h at -	N/A

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Modification 1:2018-04-08 IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
Appay 55	30 °C ± 2 °C; followed by 3 h at room Replace the 11th dashed paragraph v –10 cycles of exposing the device (wh 50 °C ± 2 °C for 10 min; followed by 10 min at 0 °C ± 2 °C with a 5 min per one state to the other;	vith the following: hile energized) to riod of transition from		
Annex EE	Replace Annex EE with the following Annex JA (normative) Document shredding m HOUSEHOLD AND HOME/OFFICE DC SHREDDERS shall additionally comp requirements of this annex. JA.1 Markings and instructions The symbol ()) (JIS S 0101:2000, 6. precautions for use shall be marked or adjacent to document feed opening. clearly legible, permanent, and easily 子供が使用することによって, 傷害などの危害 (that use by infants/children may ca etc.) 文書投入口に手を触れることによって, 細断機構; (that a hand can be drawn into the m shredding when touching the docum 文書投入口に表類が触れることによって, 細断機構; (that clothing can be drawn into the r for shredding when touching the docum 文書投入口に髪の毛が触れることによって, 細断機構; (that hairs can be drawn into the med shredding when touching the docum 之書投入口に髪の毛が触れることによって, 細断機構; (that hairs can be drawn into the med shredding when touching the docum - in case of equipment incorporating 可燃性ガスを噴射することによって引火又 (that equipment may catch fire or exp flammable gas.)	achines OCUMENT/MEDIA by with the 2.1) and the following on readily visible part The marking shall be v discernible; が発生するおそれがある。; use a hazard of injury 引き込まれるおそれがある。; echanical section for ent-slot) 能引き込まれるおそれがある。 mechanical section sument-slot) 構に引き込まれるおそれがある。	N/A	

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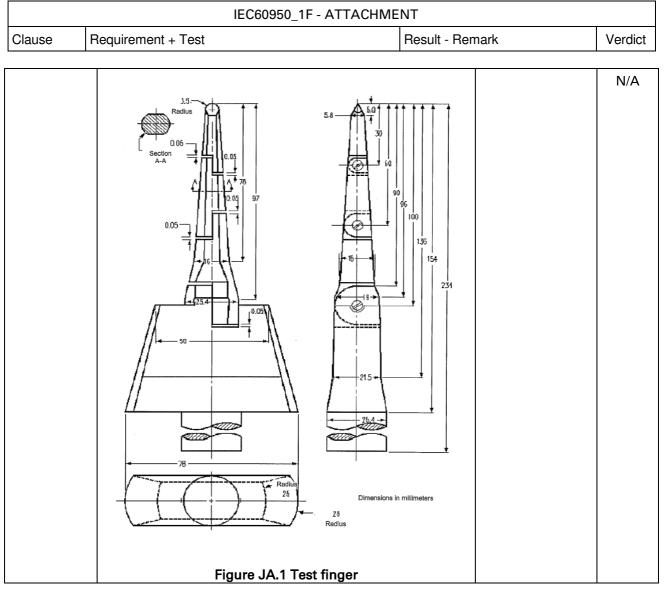
IEC60950_1F - ATTACHMENT Clause Requirement + Test **Result - Remark** Verdict JA.2 Inadvertent reactivation Any safety interlock that can be operated by means of the test finger, Figure JA.1, is considered to be likely to cause inadvertent reactivation of the hazard. Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1. JA.3 Disconnection from the mains supply Document shredding machines shall incorporate an isolating switch complying with sub-clause 3.4.2 as the device disconnecting the power of hazardous moving parts. For this switch, two-position (single-use) switch or multi-position (multifunction) switch (e.g., slide switch) may be used. If two-position switch, the positions for "ON" and "OFF" shall be indicated in accordance with sub-clause 1.7.8. If multi-position switch, the position for "OFF" shall be indicated in accordance with sub-clause 1.7.8 and other positions shall be indicated with proper terms or symbols. Compliance is checked by inspection. N/A JA.4 Protection against hazardous moving parts Any warning shall not be used instead of the structure for preventing access to hazardous moving parts. Document shredding machines shall comply with the following requirements. Insert the test finger, Figure JA.1, into all openings in MECHANICAL ENCLOSURES without applying appreciable force. It shall not be possible to touch hazardous moving parts with the test finger. This consideration applies to all sides of MECHANICAL ENCLOSURES when the equipment is mounted as intended. Before testing with the test finger, remove the parts detachable without a tool. Insert the wedge-probe, Figure JA.2, into the documentslot. And, against all directions of openings, if straightcutting type, a force of 45 N shall apply to the probe, and 90 N if cross-cutting type. In this case, the weight of the probe is to be factored into the overall applied force. Before testing with the wedge-probe, remove the parts detachable without a tool. It shall not be possible to touch any hazardous moving parts, including the shredding roller or the mechanical section for shedding, with the probe.

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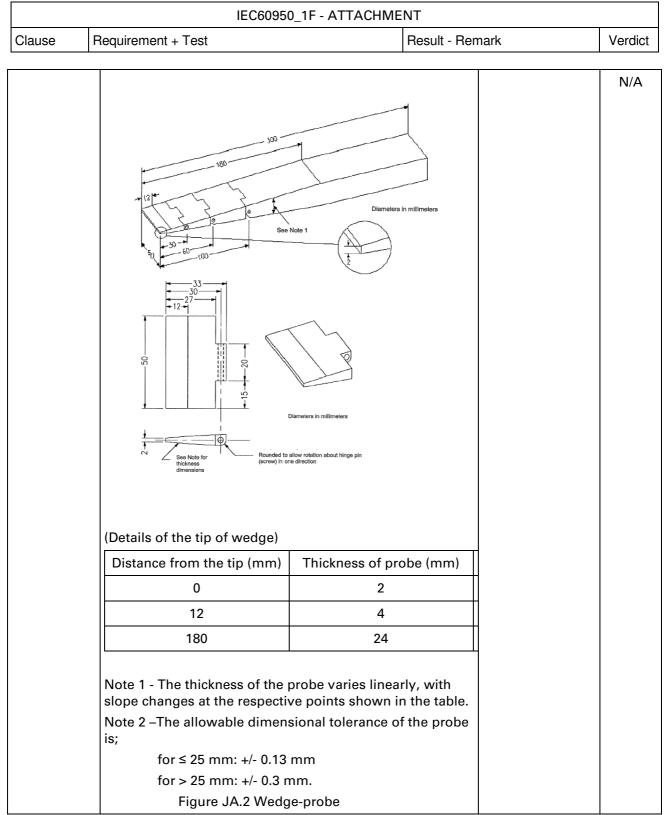
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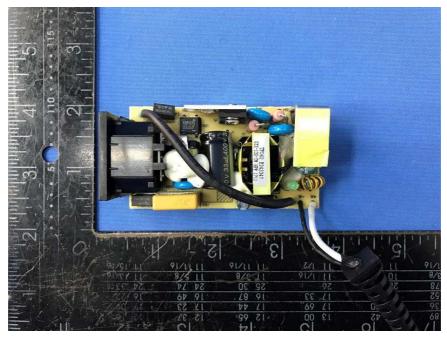
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Photo of product:



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

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

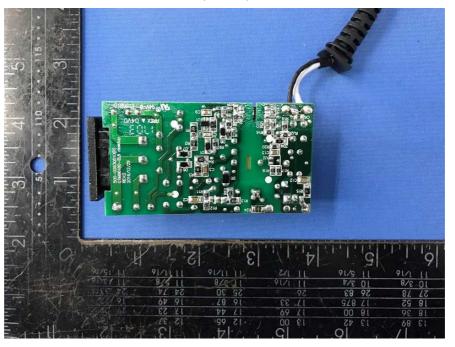


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Photo of product:



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

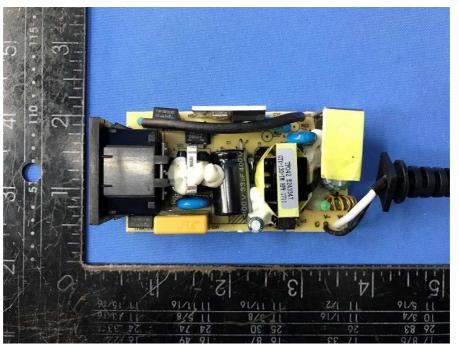
Internal view for GTM96180 series (Class I) without R22, R23 and with R24





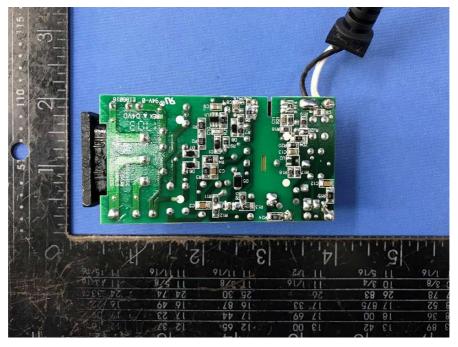
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Photo of product:



PCB view for GTM96180 series (Class I) without R22, R23 and with R24 $\,$

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





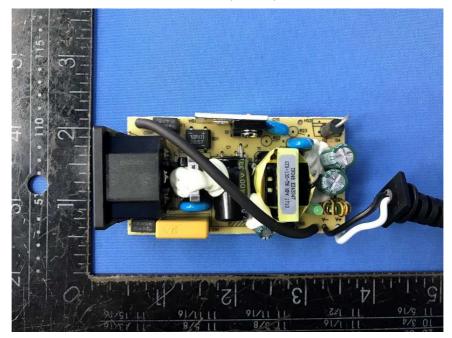
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Photo of product:



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

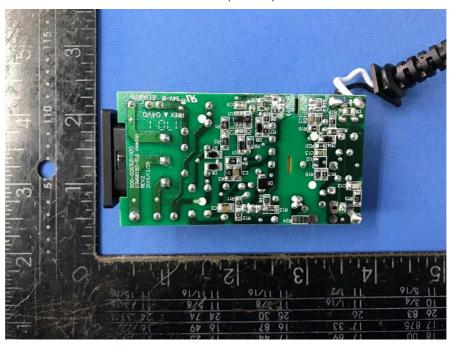
PCB view for GTM96180 series (Class I) without heatsink for D2





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Photo of product:



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

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

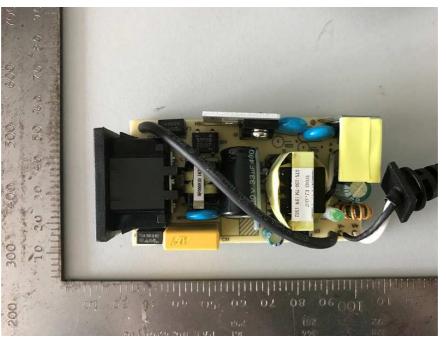


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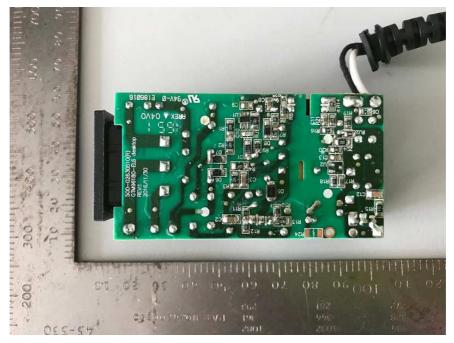
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Photo of product:



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

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



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