

File E341351
Project 4789507340

July 20, 2018

REPORT

on

LISTING - Power Supplies for use in Audio/Video, Information and
Communication Technology Equipment

GLOBTEK (HONG KONG) LTD
KOWLOON HONG KONG

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UL TEST REPORT AND PROCEDURE	
Standard:	UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Certification Type:	Listing
CCN:	QQJQ, QQJQ7 Power Supplies for use in Audio/Video, Information and Communication Technology Equipment)
Complementary Certification CCN	N/A
Product:	ICT/ITE power supply
Model:	<p>1. GT*46401-**** (Replaceable plug) 2. GT*46401-***-W2* (Fixed plug) (The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" denotes the rated output wattage designation, with a maximum value of "40". The 3rd "*" denotes the standard rated output voltage designation, which can be "12", "15", "19", "24". The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.1" to "-4.9" with interval of 0.1, or blank to indicate no voltage different.</p> <p>-W2 can be optional, when it is blank, denote to be with replaceable plug. The last "*" denote any six character means "0-9", "A-Z", "()", "[]", "-" or blank for marketing purposes.)</p>
Rating:	<p>I/P: 100-240Vac, 50-60Hz or 50/60Hz, 1.0A</p> <p>O/P: See Illustration - 14 for details.</p>
Applicant Name and Address:	GLOBTEK (HONG KONG) LTD UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Reviewed
by: Brian Wong

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report
 - ii Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report
- C. Listing Mark/Recognized Component Mark Data Page - details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

The product is a Direct plug-in equipment for Class II intended for use with Audio/video, information and communication technology equipment, there electronic components mounted on PWB, and housed in a thermoplastic enclosure by ultrasonic welding.

Model Differences

All models are similar to each other except for output rating, transformer, rating of Secondary components and model designation, see Illustration - 14 for details.

Test Item Particulars (NOT FOR FIELD REPRESENTATIVE'S USE)	
Classification of installation and use by . :	<input checked="" type="checkbox"/> Ordinary person <input type="checkbox"/> Instructed person <input type="checkbox"/> Skilled person
Supply Connection..... :	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains
Equipment mobility..... :	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input checked="" type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> direct plug-in <input type="checkbox"/> rack-mounting <input type="checkbox"/> wall-mounted
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other: _____
Fundamental Frequency	<input checked="" type="checkbox"/> 50/60 Hz <input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz <input checked="" type="checkbox"/> other 50-60 Hz <input type="checkbox"/> N/A
Class of equipment	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified <input type="checkbox"/> Class II with functional earthing
Access location	<input type="checkbox"/> restricted access location <input checked="" type="checkbox"/> N/A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	<input checked="" type="checkbox"/> IP X0 <input type="checkbox"/> IP ____
Tested for IT power systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V)	<input type="checkbox"/> ____ <input checked="" type="checkbox"/> N/A
Altitude during operation (m)	<input type="checkbox"/> Up to 2,000 <input checked="" type="checkbox"/> Up to 4,000
Altitude of test laboratory (m)	<input checked="" type="checkbox"/> Less than 2,000 <input type="checkbox"/> Approximately ____
Mass of equipment (kg)	Max. 0.24 kg Max.

Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)

- The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: 40 degree C
- The means of connection to the mains supply is: Pluggable A
- The product is intended for use on the following power systems: TN
- Considered current rating of protective device as part of the building installation (A) : 20
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- The equipment disconnect device is considered to be: Plug
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- The product was investigated to the following additional standards: (1) The product was evaluated to be operated up to 4,000 m above sea level per Annex G and the multiplication factor (1.29, linear interpolation used) of table A.2 of IEC 60664-1, Edition 2.0: 2007 was applied to determine the minimum required clearance; (2) The product was evaluated to the maximum acceptable moment, center of gravity, dimensions and weight of the product in accordance with UL 1310; (3) The blade dimension was evaluated to be complied with NEMA configurations in accordance with Wiring Devices-Dimensional Specifications, ANSI/NEMA WD6.

Engineering Conditions of Acceptability (NOT FOR FIELD REPRESENTATIVE'S USE)

N/A

Additional Information

N/A

Additional Standard

The product fulfils the requirements of: N/A

Markings, instructions and instructional safeguards						
Clause Title		Marking or Instruction Details				
Equipment identification marking - Manufacturer identification		Listee's or Recognized company's name, Trade Name, Trademark or File Number.				
Equipment identification marking - model identification		Model Number				
Equipment rating marking -ratings		Input Ratings (voltage, frequency, current) Output Ratings (voltage, dc, current)				
Power rating - Class II symbol		Symbol for Class II construction  (60417-2-IEC-5172)				
Fuses - replaceable by skilled person (component ID:FS1)		FS1, T2AL, 250V located on or adjacent to fuse or fuseholder.				
Special Instructions to UL Representative						
For transformer test - When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in Production-Line Testing Requirements be conducted at the component manufacturer.						
Production-Line Testing Requirements						
<u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All models	T1	N/A	Primary to Secondary	3000	4242	1
All models	EUT	N/A	Primary to Secondary	3000	4242	1
<u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u>						
All models						
<u>Electric Strength Test Exemptions - This test is not required for the following models:</u>						
--						
<u>Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:</u>						
N/A						
<u>Sample and Test Specifics for Follow-Up Tests at UL</u>						
Model	Component	Material	Test	Sample(s)	Test Specifics	
N/A	--	--	--	--	--	

4.1.2	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Label (optional)	Interchangeable	Interchangeable	Minimum 70 degree C. if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	
02. Enclosure and plug holder material	SABIC JAPAN L L C	945 (GG)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness. See Enclosure Ill. 1 and 2. for dimensions	QMFZ2	UL	
02a. Enclosure and plug holder material (Alternate)	SABIC INNOVATIVE PLASTICS US L L C	915R(GG)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness. See Enclosure Ill. 1 and 2. for dimensions	QMFZ2	UL	
02b. Enclosure and plug holder material (Alternate)	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	LUPOY EF-1006F(m)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness. See Enclosure Ill. 1 and 2. for dimensions	QMFZ2	UL	
02c. Enclosure and	COVESTRO	FR6005 + (z)	Two pieces	QMFZ2	UL	

ULS-62368-1-QQJQ-Description-2002

Form Issued: 2015-02-25

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Form Revised:

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plug holder material (Alternate)	DEUTSCHLAND AG [PC RESINS]		construction, secured together by ultrasonic welding, rated V-0 or better, 105 degree C min. Minimum 2.0 mm thickness. See Enclosure Ill. 1 and 2. for dimensions			
02d. Enclosure and plug holder material (Alternate)	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness. See Enclosure Ill. 1 and 2. for dimensions	QMFZ2	UL	
03. Input Blades	Interchangeable	Interchangeable	Solid copper, non-grounding, non-polarized, NEMA 1-15P configuration, integrally moulded on Bottom Enclosure. Spaced minimum 5.1 mm from perimeter edge of Enclosure.	--	--	
04. Fuse (FS1)	Interchangeable	Interchangeable	T2AL, 250Vac	JDYX	UL	
04a. Fuse (FS1) (Alternate)	Conquer Electronics Co Ltd	MST	T2AL, 250Vac	JDYX2	UL	
04b. Fuse (FS1) (Alternate)	Ever Island Electric Co Ltd & Walter Electric	2010	T2AL, 250Vac	JDYX2	UL	
04b. Fuse (FS1) (Alternate)	COOPER BUSSMANN LLC	SS-5	T2AL, 250Vac	JDYX2	UL	

04c. Fuse (FS1) (Alternate)	Bel Fuse Inc	RST	T2AL, 250Vac	JDYX2	UL	
04d. Fuse (FS1) (Alternate)	DONGGUAN BETTER ELECTRONIC TECHNOLOGY CO LTD	932	T2AL, 250Vac	JDYX2	UL	
04e. Fuse (FS1) (Alternate)	HOLLYLAND CO LTD	5ET	T2AL, 250Vac	JDYX2	UL	
04f. Fuse (FS1) (Alternate)	LITTELFUSE WICKMANN WERKE	392	T2AL, 250Vac	JDYX2	UL	
05. X-Capacitor (CX1)	Cheng Tung Industrial Co Ltd	CTX	Max. 0.33 uF, min. 250 Vac, Class X1 or X2, min. 110 degree C. (comply with IEC 60384-14)	FOWX2	UL	
05a. X-Capacitor (CX1)(Alternate)	Tenta Electric Industrial Co Ltd	MEX	Rated max 0.33uF, min 250 V, X1 or X2 type, 100 degree C. (comply with IEC 60384-14)	FOWX2	UL	
05b. X-Capacitor (CX1)(Alternate)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Rated max 0.33 uF, min 250 V, X1 or X2 type, 100 degree C. (comply with IEC 60384-14)	FOWX2	UL	
05c. X-Capacitor (CX1)(Alternate)	CARLI ELECTRONICS CO LTD	MPX	Rated max 0.33uF, min 250 V, X1 or X2 type, 100 degree C. (comply with IEC 60384-14)	FOWX2	UL	

05d. X-Capacitor (CX1)(Alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Rated max 0.33uF, min 250 V, X1 or X2 type, 105 degree C. (comply with IEC 60384-14)	FOWX2	UL	
05e. X-Capacitor (CX1)(Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MKP/MPX	Rated max 0.33uF, min 250 V, X1 or X2 type, 110 degree C. (comply with IEC 60384-14)	FOWX2	UL	
06. Bleeder Resistor (RS1, RS2)	TZAI YUAN ENTERPRISE CO LTD	HSMD series SMD series	Max.1.5MOhm, min.1/4W	AZOP2	UL	
06a. Bleeder Resistor (RS1, RS2) (Alternate)	PROSPERITY DIELECTRICS CO LTD	FVS03, TF06V, FVS05, TF08V, FVS06, TF12V, FVS20, TF20V, FVS25, TF25V	Max.1.5MOhm, min.1/4W	AZOP2	UL	
06b. Bleeder Resistor (RS1, RS2) (Alternate)	Ralec Electronic Corp	RTV05, RTV06, RTV12, RTV20, RTV25	Max.1.5MOhm, min.1/4W	AZOP2	UL	
07. Bleeder Resistor (RS3)	TZAI YUAN ENTERPRISE CO LTD	HSMD series SMD series	Max.510KOhm, min.1/4W	AZOP2	UL	
07a. Bleeder Resistor (RS3) (Alternate)	PROSPERITY DIELECTRICS CO LTD	FVS03, TF06V, FVS05, TF08V, FVS06, TF12V, FVS20, TF20V, FVS25, TF25V	Max.510KOhm, min.1/4W	AZOP2	UL	
07b. Bleeder Resistor (RS3) (Alternate)	Ralec Electronic Corp	RTV05, RTV06, RTV12, RTV20, RTV25	Max.510KOhm, min.1/4W	AZOP2	UL	
08. Bridging Diode (BD1)	Interchangeable	Interchangeable	4A minimum, 600V minimum.	--	--	
09. Storage Capacitor (C1) For models For output power $\leq 30W$	Interchangeable	Interchangeable	Rated 400 V, max. 68uF, min. 105 degree C, provided with integral pressure relief	--	--	
10. Storage	Interchangeable	Interchangeable	Rated 400 V, max. 82uF,	--	--	

Capacitor (C1) For output power 30-40W		le	min. 105 degree C, provided with integral pressure relief			
11. Transistor (Q1)	Interchangeable	Interchangeable	Min. 600 V, 6-10A.	--	UL	
12. Choke (LF2) (Optional)	Interchangeable	NF00025	130 degree C. See ILL._04_for details.	--	--	
12-01. Coil	Interchangeable	Interchangeable	Min. 130 degree C.	OBMW2	UL	
12-02. Core	Interchangeable	Interchangeable	Ferrite, overall measured overall 8 mm by 4 mm by 4mm	--	--	
12-03. Triple Insulation Wire	Great Leoflon Industrial Co Ltd	TRW(B)	Rated 130 degree C	OBJT2	--	
13. Choke (LF1) (Optional)	Interchangeable	NF00124	130 degree C. See ILL._03_for details.	--	--	
13-01. Coil	Interchangeable	Interchangeable	Min. 130 degree C.	OBMW2	UL	
13-02. Core	Interchangeable	Interchangeable	Ferrite, overall measured overall 16 mm by 12mm by 8mm.	--	--	
14. Optical Isolator (U1)	Lite-On Technology Corp	LTV817	Isolation: 5000 Vac, min. 0.4 mm distance through insulation, min. 100 degree C	FPQU2	--	
14a. Optical Isolator (U1) (Alternate)	Everlight Electronics Co Ltd	EL817	Isolation: 5000 Vac, min. 0.4 mm distance through insulation, min. 110 degree C	FPQU2	UL	
14b. Optical Isolator (U1) (Alternate)	Cosmo	K1010	Isolation: 5000 Vac, min. 0.4 mm distance through insulation, min. 115 degree C	FPQU2	UL	
14c. Optical	BRIGHT LED	BPC-	Isolation: 5000 Vac,	FPQU2	UL	

Isolator (U1) (Alternate)	ELECTRONICS CORP	817XXXXXX, BPC- 817MXXXXXX, BPC- 817SXXXXXX, where XXXXXX can be any alphanumeric character or blank.	min. 0.4 mm distance through insulation, min. 100 degree C			
14d. Optical Isolator (U1) (Alternate)	RENESAS ELECTRONICS CORPORATION	PS2561-1	Isolation: 5000 Vac, min. 0.4 mm distance through insulation, min. 100 degree C	FPQU2	UL	
14e. Optical Isolator (U1) (Alternate)	SHENZHEN ORIENT COMPONENTS CO LTD	ORPC-817Mx@, ORPC-817Sx@, ORPC-817x@	Isolation: 5000 Vac, min. 0.4 mm distance through insulation, min. 100 degree C	FPQU2	UL	
15. Bridge Capacitor (CY1)	Success Electronics Co Ltd	SE, SB, SF	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance with IEC 60384-14).	FOWX2	--	
15a. Bridge Capacitor (CY1) (Alternate)	TDK CORPORATION	CD	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance with IEC 60384-14).	FOWX2	--	
15b. Bridge Capacitor (CY1) (Alternate)	Walsin Technology Corp	AH	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance with IEC 60384-14).	FOWX2	UL	
15c. Bridge Capacitor (CY1) (Alternate)	Haohua Electronic Co	CT 7	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance with IEC 60384-14).	FOWX2	UL	
15d. Bridge Capacitor (CY1) (Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO	YOB, YOF, YOE	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance	FOWX2	UL	

	LTD		with IEC 60384-14).			
15e. Bridge Capacitor (CY1) (Alternate)	MURATA MFG CO LTD	KX	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance with IEC 60384-14).	FOWX2	UL	
15f. Bridge Capacitor (CY1) (Alternate)	JUHONG ELE CO	JB	Max. 1000 pF, min. 250 V, Y1 type, min 125 degree C. (Compliance with IEC 60384-14).	FOWX2	UL	
16. Transformer (T1) (for (for output voltage 12-17.9V))	ENG Electric Co Ltd	XF00936	See ILL._05_ for details.	--	--	
16-1. Transformer (Alternate) (for output voltage 18-22V)	ENG Electric Co Ltd	XF00945	See ILL. 06 for details.	--	--	
16-2. Transformer (Alternate) (for output voltage 22.1-24V)	ENG Electric Co Ltd	XF00946	See ILL. 07 for details.	--	--	
Insulation system	ENG Electric Co Ltd	ENG130-1	Class B	OBJY2	UL	
16a. Core	--	--	RM10 Type, Ferrite, dimension 30mm by 20 mm by 9.2mm	--	--	
16b. Coil	Interchangeable	Interchangeable	130 degree C	OBMW2	UL	
16c. Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL	
16c-1. Bobbin (Alternate)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL	
16d. Tubing/Sleeving	Great Holding Industrial Co. Ltd.	TFL, TFS, TFT	Rated 200 degree C, VW-1, 600V max.	YDPU2	UL	
16e. Triple	Great Leoflon	TRW(B)	130 degree C	OBJT2	UL	

Insulated Wire	Industrial Co. Ltd.					
16f. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL	
16f-1. Varnish (Alternate)	Elantas Electrical Insulation Elantas Pdg Inc	V1630FS	Rated minimum 130 degree C.	OBOR2	UL	
16g. Insulation Tape	3M Company	1350F-(#)	130 degree C.	OANZ2	UL	
16g-1. Insulation Tape (Alternate)	3M Company	1350T-1	130 degree C.	OANZ2	UL	
16g-2. Insulation Tape (Alternate)	BONDTEC PACIFIC CO LTD	370S	130 degree C.	OANZ2	UL	
17. Heat Sink (HS1)	Interchangeable	Interchangeable	Aluminium type, min. 2.0 mm thickness, See Illustration 11_for dimension details	--	--	
18. Heat Sink (Secondary)	Interchangeable	Interchangeable	Aluminium type, min. 2.0 mm thickness, See Illustration 12_for dimension details	--	--	
19. PWB	Interchangeable	Interchangeable	Min. V-0, min. 105 degree C.	ZPMV2	UL	
20. Current sense resistor (R1) (For For output power $\leq 30W$ and output voltage $\leq 24V$)	Interchangeable	Interchangeable	0.3 ohm, 2W.	--	--	
21. Current sense resistor (R1) (For For output power $\leq 30W$, output voltage 24V)	Interchangeable	Interchangeable	0.33 ohm, 2W.	--	--	
22. Current sense resistor (R1) (For output power 30-	Interchangeable	Interchangeable	0.27 ohm, 2W.	--	--	

40W)						
23. LED Barrier (Optional)	SABIC JAPAN L L C	945 (GG)	Rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness.	QMFZ2	UL	
24. Output Cable	Interchangeable	Interchangeable	Rated Minimum 30 V, Minimum 80 degree C, Maximum 3.05 m long, marked VW-1 or FT-1. Terminates with a polarized connector outside enclosure.	AVLV2 ZJCZ	UL	
25. Strain Relief	Interchangeable	Interchangeable	V-1 or better	QMFZ2	UL	
26. Internal Glue Materials	--	--	Rated V-2 minimum.	QMFZ2	UL	

ENCLOSURES

<u>Type</u>	<u>Supplement ID</u>	<u>Description</u>
Figures	Figure - 1	Overall View - 1 (GT*46401-****)
	Figure - 2	Overall View - 2 (GT*46401-****)
	Figure - 3	Overall View - 3 (GT*46401-****)
	Figure - 4	Internal View - 1 (GT*46401-****)
	Figure - 5	PWB View - 1 (GT*46401-****)
	Figure - 6	PWB View - 2 ((GT*46401-****)
	Figure - 7	Plug holder View - 1 (GT*46401-****)
	Figure - 8	Overall View - 4 (GT*46401-***-W2*)
	Figure - 9	Overall View - 5 (GT*46401-***-W2*)
	Figure - 10	PWB View - 3 (GT*46401-***-W2*)
	Figure - 11	PWB View - 4 (GT*46401-***-W2*)
Illustrations	Illustration - 1	Enclosure (GT*46401-****)
	Illustration - 2	Enclosure (GT*46401-***-W2*)
	Illustration - 3	Line filter (LF1)
	Illustration - 4	Line filter (LF2)
	Illustration - 5	Transformer T1 Specification (for 12-17.9V) (Part #: XF00936)
	Illustration - 6	Transformer T1 Specification (for 18-22V) (Part #: XF00945)
	Illustration - 7	Transformer T1 Specification (for 22.1-24V) (Part #: XF00946)
	Illustration - 8	Output strain relief dimension
	Illustration - 9	Input Blades dimension
	Illustration - 10	Detachable dock head with Input Blades dimension (GT*46401-****)
	Illustration - 11	Heat Sink (HS1) dimensions
	Illustration - 12	Heat Sink (HS2) dimensions
	Illustration - 13	PWB layout
	Illustration - 14	Model difference and rating