

File E341351 Vol X4	Auth. Page 1
---------------------	--------------

Issued: 2011-12-01 Revised: 2014-10-14

FOLLOW-UP SERVICE PROCEDURE (TYPE R)

> Applicant: 206600 (Party Site) GLOBTEK (HONG KONG) LTD (100551-385) UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG

206600 (Party Site) Listee/Classified Co.: SAME AS APPLICANT (100551-385)

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: http://www.ul.com/fus and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: http://www.ul.com/fus and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: http://www.ul.com/responsibilities. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at http://www.ul.com/global/eng/pages/corporate/contactus, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service Terms which can be accessed by clicking here: http://www.ul.com/contracts/Terms-After-12-31-2011. In all other events, Follow-Up Services agreement and this Follow-Up Service agreement and this Follow-Up Service agreement and this Follow-Up Service Agreement for your applicable service agreement and this Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

File E341351 Vol X4 Auth. Page 2

Issued: 2011-12-01 Revised: 2014-10-14

It is the responsibility of the Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

William R. Carney Director North American Certification Program

File	E341351	Vol	Χ4	Addendum To	Page	1	Issued:	2011-12-01
				Authorization Page	:		Revised:	2014-10-14

LOCATION

	77662 (Party Site)
(100230-041)	GLOBTEK (SUZHOU) CO LTD
	BLDG 4, #76
	JINLING EAST RD
	SUZHOU PARK
	SUZHOU
	JIANGSU 215021 CHINA
Factory ID:	NONE
UL Contracting	Party for above site is: UL AG



ML FILE NO. E170507

Issued: 2013-09-25 Revised: 2017-08-10

MULTIPLE LISTING

of

POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT (QQGQ, QQGQ7)

for

[188469] GLOBTEK INC

Basically Listed for:

[206600] GLOBTEK (HONG KONG) LTD (NWT)

Basically Listed products covered by Procedure and/or Reports under File No. E341351, Volume X4

Products Covered	Report Reference	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designation
Switching Adapter	A4-UL	GT-81081-60x-y-a Series	GT-81081-60x-y-a Series
		GT-81041-2007.5-4.5-W2	GT-81041-2007.5-4.5-W2
		GT-81041-2007.5-X.X-W2 where	GT-81041-2007.5-X.X-W2 where
		X.X is from 3.0 to 7.5 (by step of	X.X is from 3.0 to 7.5 (by step of
		0.1)	0.1)
		GT-81041-2009.4-X.X-W2 where	GT-81041-2009.4-X.X-W2 where
		X.X is from 7.6 to 9.4 (by step of	X.X is from 7.6 to 9.4 (by step of
Direct Dlug In	A20-UL	0.1)	0.1)
Switching Adapter		GT-81041-2014-X.X-W2 where	GT-81041-2014-X.X-W2 where
(USL Only)		X.X is from 9.5 to 14.0 (by step of	X.X is from 9.5 to 14.0 (by step
(USL Olly)		0.1)	of 0.1)
		GT-81041-2014L-X.X-W2 where	GT-81041-2014L-X.X-W2 where
		X.X is from 9.5 to 14.0 (by step of	X.X is from 9.5 to 14.0 (by step
		0.1)	of 0.1)
		GT-81041-2024-X.X-W2 where	GT-81041-2024-X.X-W2 where
		X.X is from 18.0 to 24.0 (by step of	X.X is from 18.0 to 24.0 (by step
		0.1)	of 0.1)

<u>MARKING</u>: Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, file number, Trademark / Tradename, when applicable, and product designation. The Control Number remains [4MU8].



Issued: 2013-09-25 Revised: 2017-08-10

M/L [188469] GLOBTEK INC

AP

[206600]

GLOBTEK (HONG KONG) LTD

(NWT)

Products Covered	Report Reference	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designation
		GT-81085-WWVV-X.X-W2	GT-81085-WWVV-X.X-W2
		GT-81085-1307.5-X.X-W2	GT-81085-1307.5-X.X-W2
		WW is output power in Watts, offset by 1 decimal place to the right, 001 - 130	WW is output power in Watts, offset by 1 decimal place to the right, 001 - 130
Switching Adapter (USL	A21-UL	VV is output voltage for base rated voltage 05-7.5	VV is output voltage for base rated voltage 05-7.5
		X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 7.5	X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 7.5
Only)		GT-81085-1513.5-X.X-W2	GT-81085-1513.5-X.X-W2
		WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150	WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150
		VV is output voltage for base rated voltage 09-13.5	VV is output voltage for base rated voltage 09-13.5
		X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 13.5.	X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 13.5.

<u>MARKING</u>: Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, file number, Trademark / Tradename, when applicable, and product designation. The Control Number remains [4MU8].



(NWT)

Multiple Listing Correlation Sheet

Issued: 2013-09-25 Revised: 2017-08-10

AP

M/L [188469] GLOBTEK INC

[206600] GLOBTEK (HONG KONG) LTD

Products Covered	Report Reference	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designation
		GT-81085-WWVV-X.X-W2	GT-81085-WWVV-X.X-W2
		GT-81085-1516.6-X.X-W2	GT-81085-1516.6-X.X-W2
		WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150	WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150
	A21-UL	VV is output voltage for base rated voltage 13.6-16.6	VV is output voltage for base rated voltage 13.6-16.6
Switching Adapter (USL Only)		X.X is optional for specifying the output voltage deviations in 0.1	X.X is optional for specifying the output voltage deviations in 0.1
		increments, and X.X is to be subtracted from the base rated voltage of 16.6.	increments, and X.X is to be subtracted from the base rated voltage of 16.6.
		GT-81085-1224-X.X-W2	GT-81085-1224-X.X-W2
		WW is output power in Watts, offset by 1 decimal place to the right, 001 - 120	WW is output power in Watts, offset by 1 decimal place to the right, 001 - 120
		VV is output voltage for base rated voltage 24.	VV is output voltage for base rated voltage 24.
		X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 24.	X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 24.

<u>MARKING</u>: Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, file number, Trademark / Tradename, when applicable, and product designation. The Control Number remains [4MU8].

(NWT)

Issued: 2013-09-25 New: 2017-08-10

AP

M/L [188469] GLOBTEK INC

[206600] GLOBTEK (HONG KONG) LTD

Basic Applicant's Products Report (Supplier's) Multiple Listee's Product Designation Reference Product Designation Covered GT*96600-*05-T** GT*96600-*05-T** The 1st "*" part can be 'M' or '-' or 'H' The 1st "*" part can be 'M' or '-' or 'H' for market identification and not for market identification and not related to safety. related to safety. The 2nd "*" denotes the rated output The 2nd "*" denotes the rated output wattage designation, which can be wattage designation, which can be "01" to "40", with interval of 1. "01" to "40", with interval of 1. The 3rd"*"=3 means desktop class I The 3rd"*"=3 means desktop class I with C14 AC inlet = 3A means with C14 AC inlet = 3A means desktop desktop class I with C6 AC inlet class I with C6 AC inlet The last * denote any six character = The last * denote any six character = **ITE POWER** 0-9 or A-Z or ()[] or - or blank for 0-9 or A-Z or ()[] or - or blank for A90-UL SUPPLY marketing purposes. marketing purposes. GT*96180-*11-2.0-T** GT*96180-*11-2.0-T** The 1st "*" part can be 'M' or '-' or 'H' The 1st "*" part can be 'M' or '-' or 'H' for market identification and not for market identification and not related to safety. related to safety. The 2nd "*" denotes the rated output The 2nd "*" denotes the rated output wattage designation, which can be wattage designation, which can be "01" to "18", with interval of 1. "01" to "18", with interval of 1. The 3rd "*"=3 means desktop class I The 3rd "*"=3 means desktop class I with C14 AC inlet = 3A means with C14 AC inlet = 3A means desktop desktop class I with C6 AC inlet class I with C6 AC inlet The last * denote any six character = The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for **ITE POWER** 0-9 or A-Z or ()[] or - or blank for SUPPLY A91-UL marketing purposes. marketing purposes.

<u>MARKING</u>: Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, file number, Trademark / Tradename, when applicable, and product designation. The Control Number remains [4MU8].

File		Volume	Page	Date:
E341351	Index	X4	1	2018-09-18

<u>Index</u>

Product Type	Model/Type Reference	<u>Report Reference</u> #	<u>Status</u>
Switching Adapter	GT-81081-60x-y-a Series	E341351-A4-UL	
Direct Plug In Switching Adapter	GT-81041-2007.5-4.5-W2 GT-81041-2007.5-X.X-W2 where X.X is from 3.0 to 7.5 (by step of 0.1) GT-81041-2009.4-X.X-W2 where X.X is from 7.6 to 9.4 (by step of 0.1) GT-81041-2014-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2014L-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2024-X.X-W2 where X.X is from 18.0 to 24.0 (by step of 0.1)	E341351-A20-UL	
Switching Power Adapter	GT-81085-WWVV-X.X-W2 GT-81085-1307.5-X.X-W2 WW is output power in Watts, offset by 1 decimal place to the right, 001 - 130 VV is output voltage for base rated voltage 05-7.5 X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 7.5 GT-81085-1513.5-X.X-W2 WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150 VV is output voltage for base rated voltage 09-13.5 X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 13.5. GT-81085-1516.6-X.X-W2 WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150 VV is output voltage for base rated voltage 13.6-16.6 X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 16.6. GT-81085-1224-X.X-W2 WW is output power in Watts, offset by 1 decimal place to the right, 001 - 120 VV is output voltage for base rated voltage 24. X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage 24. X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage 24.	E341351-A21-UL	

File		Volume	Page	Date:
E341351	Index	X4	2	2018-09-18

ITE Power Supply	GT*96600-*05-T**, GT*96600-*12-R** 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. For model GT*96600-*05-T**, it can be "01" to "40", with interval of 1; for model GT*96600- *12-R**, it can be "01" to "60", with interval of 1. The 3rd"*"=3 means desktop class I with C14 AC inlet =3A means desktop class I with C6 AC inlet The last * denote any six character = 0-9 or A-Z or ()II or - or blank for marketing purposes	E341351-A90-UL	
ITE Power Supply	GT*96180-*11-2.0-T** 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, which can be "01" to "18", with interval of 1. The 3rd "*"=3 means desktop class I with C14 AC inlet =3A means desktop class I with C6 AC inlet The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for marketing purposes. There are three different configurations for this model: Configuration A, B & C (see test report for detail)	E341351-A91-UL	

GENERIC INSPECTION INSTRUCTIONS

Product Category	Listing / Classification CCN	Component Recognition CCN **
Theater Dimmer Controls	EPCT, EPCT7	
Graphic Arts Equipment	KCQT, KCQT7	-
Information Technology Equipment Including Electrical Business Equipment	NWGQ, NWGQ7	NWGQ2, NWGQ8
Photographic Equipment	QINT, QINT7	QINT2, QINT8
Power Distribution Centers for Communications Equipment	QPQY, QPQY7	QPQY2, QPQY8
Power Supplies for Information Technology Equipment Including Electrical Business Equipment	QQGQ, QQGQ7	QQGQ2, QQGQ8
Scales and Accessories	TUTT, TUTT7	TUTT2, TUTT8

** These instructions shall also be used for the indicated Component Recognition CCNs unless specifically exempted from the factory production-line tests as noted in each individual Test Report.

These instructions contain the UL LLC Follow-Up inspection requirements for manufacturing and productionline tests. These requirements are considered to be certification requirements related to Follow-Up inspection of equipment, as such, they are not included in the Bi-National Standard as deviations from IEC 60950 or IEC 60950-1.

These instructions consist of the following Parts:

Part	Description
AA	Instructions and Duties for UL Representative
AB	Instructions for Follow-Up Tests at UL
AC	Responsibilities and Requirements for Manufacturer
AD	General Terminology
AE	General Product Construction Requirements
AF	UL Certification Marks

PART AA

INSTRUCTIONS AND DUTIES FOR UL REPRESENTATIVE

AA1.0	UL	REPRESENTATIVE'S DUTIES
AA1.1	The UL Representative's duties include, but are not limited to:	
	A.	Examining the construction of production intended to bear the UL Mark or Marking to determine compliance with the description of the product and any other requirements expressed in this Procedure.
	В.	Where so specified in each Test Report, forwarding samples to UL for Follow-Up tests
	C. Where so specified by Part AC, inspecting the test records and facilities of the manufacturer to ensure that:	
		1. The proper number of samples are undergoing the required tests, and
		2. The required tests are being performed correctly, and
		3. The proper information is being recorded and is up-to-date, and
		4. The instruments being used for the tests have been calibrated at the prescribed interval and are in good working order.

AA2.0	PROCEDURE IN CASE OF NONCONFORMANCE	
AA2.1	Report to the manufacturer and UL LLC by means of a Variation Notice (VN) if:	
	A. Variations in construction are found, or	
	B. The manufacturer's method and/or frequency of testing is not as described, or	
	C. The test records maintained by the manufacturer are not as described, or	
	D. The manufacturer's inspection program is not being performed as described, or	
	 E. Nonconforming test results are witnessed during tests conducted specifically for the UL Representative. 	
AA2.2	Explain to the manufacturer that a VN is a means of communication with the manufacturer and applicant and forms a record of those items where nonconformance to the Procedure has been found. Reference is to be made to "Information for Manufacturer's Variation Notices" on the back of the VN.	
AA2.3	When a product does not conform with the Procedure, require that the manufacturer:	
	A. Remove any markings referencing UL from the product, or	
	B. Suitably modify all products that do not comply with the Procedure, or	
	C. Hold shipment pending further instructions from UL LLC	
	Exception: Production may be temporarily accepted if it can be determined that the nonconformance does not present a conflict with the applicable UL requirements, and laboratory testing (other than Follow-Up testing) is not required to determine product compliance.	

Volume X4

AA2.4	In the event of a disagreement between the manufacturer and the UL Representative as to whether a product is acceptable, the manufacturer shall hold production at the factory pending resolution of the variations. The manufacturer and applicant have the right to appeal the decision; and the UL Representative shall provide the name of the UL Engineer to whom the appeal is to be made. If the UL Engineer is not known the manufacturer is to be directed to contact the Client Advisor at the Reviewing Office. Should UL LLC grant temporary authorization for the continued use of the UL Mark, such temporary authorization shall only be for the time needed to review and/or process the Procedure revisions, or as otherwise specified to cover a particular lot or production run.
-------	--

AA3.0	INSTRUCTIONS FOR INSPECTION OF THE PRODUCT
AA3.1	At each inspection, samples of current production and/or stock shall be examined for compliance with the applicable descriptions and requirements contained in this Procedure.

AA4.0	INSTRUCTIONS FOR SAMPLE SELECTION
AA4.1	Certain products contained in this Procedure employ plastic enclosures that may require Follow- Up testing when the material is not a Recognized Component Plastic (QMFZ2). Where indicated in each Test Report, samples shall be selected once per year.
AA4.2	Where Follow-Up tests are required, the number and type of samples to be selected and the tests to be conducted are indicated in each Test Report. Where different models shown use identical enclosures (material and dimensions), a single enclosure can be sent to represent all models. When several alternate materials are specified for particular models, only a sample of the enclosure material currently in use should be sent.
AA4.3	The selected samples shall be appropriately tagged to indicate materials, manufacturer and model/cat. no., and shall be forwarded to the appropriate Reviewing Office. Each enclosure sample should also be marked with the Procedure and Report Reference Number that the sample represents.

PART AB

INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

AB1.0	GENERAL
AB1.1	A Test Report may require Follow-Up Tests for specific products. The stated sample requirements and test specifics are based the information in AB2.0.
AB1.1	The samples forwarded by the UL Representative shall be subjected to the specified tests in accordance with the method and basis of acceptability noted in AB3.0.
AB1.2	All clause references are from the Standard for Safety of Information Technology Equipment, UL 60950, Third Edition and UL 60950-1, First Edition.

AB2.0	SAMPLE REQUIREMENTS		
	Test	Samples	Test Specifics
AB2.1	Impact	1 complete unit or 1 enclosure with supporting framework	Ball drop height = 1.3 m
AB2.2	Drop	1 complete unit	Unit drop height = 0.75 m or 1 m
AB2.3	Stress Relief	1 complete unit; or 1 enclosure with supporting framework	Oven temperature (°C)
AB2.4	3/4-Inch (19 mm) Flammability	3 enclosures or 3 sample parts with representative wall thickness and ventilation openings.	Oven temperature (°C)
AB2.5	5-Inch (127 mm) Flammability	3 enclosures or 3 sample parts with representative wall thickness and ventilation openings.	Oven temperature (°C)
AB2.6	Needle-Flame	3 enclosures or 3 sample parts with representative wall thickness and ventilation openings.	Oven temperature (°C)

AB3.0	PERFORMANCE TESTS		
	Test	Method (sub-clause)	Basis for Acceptability
AB3.1	Impact	4.2.5	4.2.1
AB3.2	Drop	4.2.6	4.2.1
AB3.3	Stress Relief	4.2.7	4.2.1
AB3.4	3/4-Inch (19 mm) Flammability	Annex A, A.2	Annex A, A.2
AB3.5	5-Inch (127 mm) Flammability	Annex A, A.1	Annex A, A.1
AB3.6	Needle-Flame	Annex A, A.2.7	Annex A, A.2.7

PART AC

RESPONSIBILITIES AND REQUIREMENTS FOR MANUFACTURER

AC1.0	MANUFACTURER'S RESPONSIBILITIES (INCLUDING BUT NOT LIMITED TO)
AC1.1	Control of UL Mark - Restrict the use of markings that reference UL (either directly or by use of the name, an abbreviation of it, or the UL symbol or Classification Mark, or indirectly by means of agreed-upon markings that are understood to indicate acceptance by UL) to those products that are found by the manufacturer's own inspection to comply with the Procedure description. Such restrictions apply to packaging, brochures or other means of advertising that reference UL. Use of such markings is further limited by the agreements that have been executed by the subscriber and UL.
AC1.2	Substitution of Non-Specified Plastic Materials - The product description may require the use of a Recognized Plastic with a minimum flammability rating. For these cases, before a plastic material may be used, current UL certification documentation must be checked to ensure that the plastic material has an acceptable flammability rating as specified at the thickness of use. Acceptable UL certification documentation includes: (a) the current edition of the Recognized Component Directory or Supplement; (b) the UL Online Certification Directory (http://www.ul.com/database). NOTE: The above does not apply to materials for which the specific manufacturer and type designation of the plastic is specified in the individual Test Reports (i.e. Enclosures).
AC1.3	Substitution of Non-Specified PWB's - Before a printed wiring board may be used, current UL certification documentation must be checked to ensure that the maximum solder temperature and dwell time is as indicated and that the printed wiring board has minimum flammability and operating temperature ratings as specified in the individual Test Reports or other specified requirements. Acceptable UL certification documentation includes: (a) the current edition of the Recognized Component Directory or Supplement; (b) the UL Online Certification Directory (http://www.ul.com/database).
AC1.4	Production-Line Tests - Conduct the tests detailed in Part AC2.
AC1.5	Test Equipment Calibration – Determine that the test equipment is functioning properly and have it calibrated at least annually, or whenever it has been subject to abuse (such as being dropped or struck with an object) or its accuracy is questionable. Calibration may be by the manufacturer or an outside laboratory. In either case, it shall be by comparison with a Standard that is traceable to the applicable U.S. or the appropriate country's National Standard. Certification of calibration shall be maintained by the manufacturer until the next succeeding certification, and shall be readily available for review by the UL Representative. A letter from an outside laboratory or from an offsite manufacturer's calibration lab stating that their lab Standards are directly traceable to their country's National Standard and outlining their traceability path is considered adequate proof of traceability. A tag or marking on the equipment alone is not to be considered as equivalent to certification, but may be used to reference the certification report.
AC1.6	Packaging - Ensure that there are no markings on the carton, package or contents that are, or could be construed to be, in conflict with or an extension of the uses covered in the instruction manual or Procedure.

AC1.7	Power Supply Cords –	
	A. Non-Detachable Power Supply Cord - A non-detachable power supply cord must be provided if described in a Test Report.	
	B. Detachable Power Supply Cord - A detachable power supply cord described in a Test Report may or may not be shipped with the unit(s). When a cord is provided, it should either:	
	 Comply with the specific description in the Procedure, or, 	
	 Be provided for products for use outside of the USA and/or Canada. In this case, the manufacturer is to supply the UL Representative with information that allows the Representative to verify that the products are intended to be sold outside of the USA and/or Canada <u>and</u> that the cord is certified or similarly appropriate for use in the destination country. 	
AC1.8	User and Installation (Safety) Instructions provided with Bulk Shipped Equipment	
AC1.8.1	Bulk shipments may be provided with installation instruction sets totaling less than the total number of products in the shipment provided, or none at all provided that the following conditions are met.	
	A. Bulk Shipment to Distribution Center - Bulk shipments from a manufacturing facility covered by the Procedure describing the product to an off-site distribution center need not have the user/installation instructions provided with the shipment if appropriate safety instructions will be added to individual products at the distribution center before final redistribution to the consumer. It is the dual responsibility of the manufacturer and distribution center to have a system in place to insure that all instructions required by the Procedure are provided with the product before final distribution to the consumer, but this system will not be subject to review by UL Follow-Up Service.	
	Example: A product shipped in a bulk lot to an overseas distribution center where appropriate installation instructions in the local language are added before final redistribution.	
	B. Bulk Shipment to Single Destination Which Controls Installation of Equipment and Manages Distribution of Instructions - Bulk shipments from a manufacturing facility covered by the Procedure to a single destination, where the redistribution and installation of the product, including distribution of instructions, is under the control of the customer, may include just one set of use/installation instructions provided that the user/installation instructions (original or copies) are made available to the users of the equipment, as needed.	
	Alternatively, user/installation instructions need not be provided with such a shipment if appropriate safety instructions will be sent separately to single destination that controls installation of the equipment. For such cases, it is the responsibility of the manufacturer to have a system in place to insure that all instructions required by the Procedure are provided to the consumer, but this system will not be subject to UL Follow-Up Service.	
	Example: A product shipped in bulk lots to a corporate customer where the equipment will be redistributed and installed locally by the corporate customer, and copies of user/installation instructions are not needed for all users of the equipment.	
	C. Bulk Shipment to Single Destination Which Does Not Control Installation - Bulk shipments from a manufacturing facility covered by the Procedure describing the product to a single destination, where redistribution and installation of the product is not controlled, should be provided with individual sets of use/installation instructions for each product, unless subjected to special consideration.	
	Example: A product shipped in bulk lots to a wholesale or retail outlet where the installation of the equipment will not be under the control of the wholesaler or retailer.	

Volume X4

AC1.8.2	Compliance with these guidelines will be determined through a review of the content of the equipment's installation instructions during the product investigation, and information supplied to the UL Inspection Center Representative during inspection visits. Other options that provide an equivalent level of safety or control may be considered based on the application.
AC1.9	Product Variations - In the event that a nonconformance to the Procedure is found, a Variation Notice (VN) will be issued. A VN is a means of communication with the applicant and manufacturer, and forms a record of those items where nonconformance to the Procedure has been found. The VN will indicate the specific model inspected and all other models with similar construction features, even when these models are not individually inspected. Unless directed otherwise by the UL Representative, when a product does not comply with the Procedure, the manufacturer shall either:
	A. Remove any markings referencing UL from the product, packaging, instructions, etc.; or
	B. Suitably modify all products that do not comply with the Procedure; or
	D. Act in accordance with special arrangements made with the Reviewing Office.
AC1.9.1	In the event of a disagreement between the manufacturer and the UL Representative as to whether or not a product is conforming, the manufacturer shall hold production at the factory pending resolution of the variations. The applicant or manufacturer has the right to appeal a decision with which he disagrees and should contact the appropriate UL Office to resolve any disagreements. Should UL LLC grant temporary authorization for the continued use of the UL Mark, such temporary authorization shall only be for the time needed to review and/or process the Procedure revisions, or as otherwise specified to cover a particular lot or production run.

AC2.0	REQUIREMENTS FOR PRODUCTION-LINE TESTS	
AC2.1	The following Production-Line Tests shall be conducted on the products covered by this Procedure. During production, the test equipment shall be checked for proper operation at least once during each shift. When the tests are not performed concurrently, it is preferred that the Electric Strength (Dielectric Voltage-Withstand) Test be performed after the Earthing (Grounding) Continuity Test.	
AC2.2	Production-Line Earthing (Grounding) Continuity Test	
AC2.2.1	General	
AC2.2.1.1	 For Listed products: Except as may be noted under "Exceptions" in each Test Report, the manufacturer shall subject 100 percent of production of all of the following products to a routine Production-Line Earthing Continuity Test as described in section AC2.2.3. A. Products that are provided with a non-detachable earthing type power supply cord, or B. Products that are provided with an earthed type inlet which accepts a detachable power supply cord, or C. Products that are provided with an earthing type terminal block or field wiring (pigtail leads) for permanent connection to the branch circuit. 	
AC2.2.1.2	For Component Recognized products: When specifically noted in each Test Report, the manufacturer shall subject 100 percent of the specified models to a routine Production-Line Earthing Continuity Test as described in section AC2.2.3.	
AC2.2.2	Test Equipment	
AC2.2.2.1	Any suitable continuity-indicating device (such as an ohmmeter, a battery and buzzer combination, or the like) may be used to determine compliance with the Earthing Continuity Test requirements. Commercial earth continuity testers that pass a current through the earthing path may also be used to determine compliance with the same requirements.	

AC2.2.3	Method
AC2.2.3.1	Continuity shall be determined between the earthing conductor of the attachment plug cap, and/or the designated main protective earthing point, and accessible dead-metal parts of the product, using the test equipment indicated above.
AC2.2.3.2	A single test is sufficient if the accessible metal selected is conductively connected by design to all other accessible metal.
AC2.2.4	Basis for Acceptability
AC2.2.4.1	There shall be earthing continuity between the parts specified.
AC2.2.5	In Cases of Non-conformance
AC2.2.5.1	Any unit that does not conform shall be segregated from conforming units until repaired or otherwise brought into compliance. Records of non-conforming test results shall be retained for six (6) months and shall be readily available for review by the UL Representative. The records shall include the model or catalog designation of the product, the date of production of the unit, the date the test was performed, test results and action taken on rejection.
AC2.3	Production-Line Electric Strength (Dielectric Voltage-Withstand) Test
AC2.3.1	General
AC2.3.1.1	For Listed products: Except as may be noted under "Exceptions" in each Test Report, the manufacturer shall subject 100 percent of production of all products to a routine Production-Line Electric Strength Test as described in section AC2.3.3.
AC2.3.1.2	For Component Recognized products: When specifically noted in each Test Report, the manufacturer shall subject 100 percent of the specified models to a routine Production-Line Electric Strength Test as described in section AC2.3.3.
AC2.3.2	Test Equipment
AC2.3.2.1	The test equipment shall include a means of indicating the test potential, an audible or visual indicator of electrical breakdown, and either a manually operated reset device to restore the equipment after electrical breakdown or an automatic feature that rejects any unacceptable unit. If an ac test potential is applied, the test equipment shall also include a transformer having an essentially sinusoidal output.
AC2.3.2.2	If the output of the test-equipment transformer is less than 500 volt-amperes, the equipment shall include a voltmeter in the output circuit to indicate the test potential directly.
AC2.3.2.3	If the output of the test-equipment transformer is 500 volt-amperes or more, the test potential may be indicated (1) by a voltmeter in the primary circuit or in a tertiary-winding circuit, (2) by a selector switch marked to indicate the test potential, or (3), in the case of equipment having a single test-potential output, by a marking in a readily visible location to indicate the test potential. When marking is used without an indicating voltmeter, the equipment shall include a positive means, such as an indicator lamp, to indicate that the manually operated reset switch has been reset following a dielectric breakdown.
AC2.3.2.4	Test equipment other than that described above may be used when it can be shown that UL has previously confirmed in writing that the equipment complies with the above requirements and is deemed suitable for use for this test.

AC2.3.3	Method
AC2.3.3.1	Each product shall withstand without electrical breakdown, as a routine production-line test, the application of an ac potential at a frequency within the range of 40-70 Hz or a dc potential between (a) the primary wiring, including connected components, and (b) accessible dead metal parts that are likely to become energized. For purposes of these instructions, primary wiring encompasses input wiring for connection to
	power systems associated with both ac mains and dc mains that exceeds 60 V dc. Note: See the Specific Inspection Criteria in each Test Report for details or special instructions for test locations, such as testing of enamel coating on signal transformers associated with TNV circuits per 2.3.2 and 6.2.1 of UL 60950-1.
AC2.3.3.2	When there are capacitors across the insulation under test, it is recommended that dc test voltages be used.
AC2.3.3.3	The production-line test potential for paragraph AC2.3.3.1 shall be in accordance with Table AC1 for protectively earthed (Class I) products and Table AC2 for double insulated (Class II) products, as applicable. The full test potential is to be applied for 1 second. The manufacturer's test conditions may be higher than those shown in Tables AC1 and AC2when necessary to comply with other international product safety certifications.
AC2.3.3.4	The product may be in a heated or unheated condition for the test.
AC2.3.3.5	The test shall be conducted when the product is complete (fully assembled), and it is not intended that the product be unwired, modified, or disassembled for the test, unless otherwise permitted below:
	A. A part, such as a snap cover or a friction-fit knob, that would interfere with conducting the test need not be in place.
	B. The test may be conducted before final assembly if the test parameters represent that for the completed product.
	C. The test need not be performed using the power supply cord provided with the product. However, if the manufacturer's test method employs a test power supply cord, then the continuity of the test power supply cord conductive connections shall be checked once daily.
AC2.3.3.6	For the test, either a sufficient number of control devices are to be closed, or separate applications of the test potential are to be made, so that all parts of the primary circuit are tested.
AC2.3.3.7	During the test, the primary switch is to be in the on position, both sides of the primary circuit of the product are to be connected together and to one terminal of the test equipment, and the second test-equipment terminal is to be connected to accessible dead metal, except as permitted below:
	A. A product (resistive, high-impedance winding, or the like) having circuitry not subject to excessive secondary voltage buildup in case of electrical breakdown during the test may be tested (1) with a single-pole primary switch, if used, in the off position, or (2) with only one side of the primary circuit connected to the test equipment when the primary switch is in the on position or when a primary switch is not used.
	B. The primary switch is not required to be in the on position if the testing means applies full test potential between the primary wiring and dead metal parts with the switch not in the on position.
AC2.3.3.8	When authorized by the "Exceptions" included in each Test Report, solid-state components that might be damaged by a secondary effect (induced voltage surge, excessive heating, and the like) of the test may be short-circuited by means of a temporary electrical jumper or the test may be conducted without the component electrically connected, providing the wiring and terminal spacings are maintained. Transient voltage suppression devices other than capacitors connected from primary wiring to dead metal may also be disconnected during the test.

AC2.3.4	Basis for Acceptability
AC2.3.4.1	All products shall withstand the applied potential without an indication of electrical breakdown.
AC2.3.5	In Cases of Non-conformance
AC2.3.5.1	Any unit that does not conform when tested at the values as specified in Table AC1 or AC2 shall be segregated from conforming units until repaired or otherwise brought into compliance. Records of non-conforming test results shall be retained for six (6) months and shall be readily available for review by the UL Representative. The records shall include the model or catalog designation of the product, the date of production of the unit, the date the test was performed, test results and action taken on rejection.

TABLE AC1 ELECTRIC STRENGTH TEST CONDITIONS FOR CLASS I (PROTECTIVELY EARTHED) EQUIPMENT

Appliance Voltage Rating	Test Potential (V rms)	Test Potential (V dc)	Time (seconds)
Rated less than or equal to 130 V rms (184 V dc)	1000	1400	1
Rated more than 130 V rms (184 V dc) and less than or equal to 600 V rms (849 V dc)	1500	2100	1

For products with special constructions and test conditions see "Exceptions" in each Test Report.

TABLE AC2 ELECTRIC STRENGTH TEST CONDITIONS FOR CLASS II (DOUBLE INSULATED) EQUIPMENT

Appliance Voltage Rating	Test Potential (V rms)	Test Potential (V dc)	Time (seconds)
Rated less than or equal to 130 V rms (184 V dc)	2000	2800	1
Rated more than 130 V rms (184 V dc) and less than or equal to 600 V rms (849 V dc)	3000	4200	1

For products with special constructions and test conditions see "Exceptions" in each Test Report.

PART AD

GENERAL TERMINOLOGY

AD1.0	ABBREVIATIONS /	DEFINITIONS
AD1.1	Bounding Surface	The outer surface of the electrical enclosure, considered as though metal foil was pressed into contact with accessible surfaces of insulating material
AD1.2	Clearance	Shortest distance between two conductive parts or between a conductive part and the BOUNDING SURFACE of the equipment, measured through air
AD1.3	Creepage Distance	Shortest distance between two conductive parts, or between a conductive part and the BOUNDING SURFACE of the equipment, measured along the surface of the insulation
AD1.4	Extra Low Voltage (ELV)	A secondary circuit with voltages between any two conductors of the circuit, and between any one such conductor and earth, not exceeding 42.4 V peak, or 60 V dc, under normal operating conditions, which is separated from a HAZARDOUS VOLTAGE CIRCUIT by basic insulation, and which neither meets all of the requirements for an SELV circuit nor meets all of the requirements for a LIMITED CURRENT CIRCUIT.
AD1.5	Hazardous Energy Level (HAZ/EL)	An available power level of 240 VA or more having a duration of 60 s or more, or a stored energy level of 20 J or more, at a potential of 2 V or more.
AD1.6	Hazardous Voltage (HAZ/V)	A voltage exceeding 42.4 V peak, or 60 V dc, existing in a circuit that does not meet the requirements for either a LIMITED CURRENT CIRCUIT or a TNV CIRCUIT.
AD1.7	Limited Current Circuit (LCC)	A circuit which is so designed and protected, that, under both normal operating conditions and single fault conditions, the current which can be drawn is not hazardous
AD1.8	Limited Power Source (LPS)	A circuit which includes a transformer or battery, and which is either inherently limited to power levels considered not a risk of fire, or is not inherently limited and requires an over-current protective device to limit the source to power levels considered not a risk of fire
AD1.9	Primary (PRI)	A circuit that is directly connected to the ac mains supply. It includes, for example, the means for connection to the ac mains supply, the primary windings of transformers, motors and other loading devices.
AD1.10	Safety Extra Low Voltage (SELV)	A SECONDARY CIRCUIT which is so designated and protected that under normal operating conditions and single fault conditions, its' voltages do not exceed a safe value, generally 42.2 V peak or 60 V dc.
AD1.11	Secondary (SEC)	A circuit that has no direct connection to a PRIMARY CIRCUIT and derives its power from a transformer, converter or equivalent isolation device, or from a battery.
AD1.12	TNV Circuit	A telecommunications network voltage circuit, which is in the equipment and to which the accessible area of contact is limited, and that is so designed and protected that, under normal operating conditions and single fault conditions, the voltages do not exceed specified limit values based upon the type of TNV circuit.

PART AE

GENERAL PRODUCT CONSTRUCTION REQUIREMENTS

AE1.0	CONSTRUCTION DETAILS
AE1.1	Unless otherwise described or supplemented in individual Test Reports, the requirements specified in Table AE1 apply to all equipment included in this Procedure
AE1.2	All clause references are from the Standard for Safety of Information Technology Equipment, UL 60950-1, First and Second Edition.

TABLE AE1 CONSTRUCTION DETAILS

Clause	Clause Title	Clause Specifics
		None specified

PART AF

	Product Cat	tegory: Power Supplies, Information Technology Equipment Including Electrical Business Equipment
	Product Cat	Tegory CCN: QQGQ
	AF1.1	The Test Report covering each product must be consulted to determine which Listing Marks are authorized for use in conjunction with that product.
I	AF1.1.1	The following Listing Mark is authorized for use on products which are Listed <u>only</u> to the requirements for the United States:
	AF1.1.2	Either of the following Listing Marks is authorized for use on products that are Listed to the requirements of <u>both</u> the United States and Canada:
	AF1.2	The Listing Mark consists of five elements that are placed in close proximity to each other and shall appear on Listed products only.
	AF1.2.1	Element 1 - UL Symbol. There is no required minimum height for the UL Symbol, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye. Information on downloading electronic versions or receiving camera-ready artwork of the UL Symbols may be obtained at www.ul.com
	AF1.2.2	Element 2 - The word "LISTED"
	AF1.2.3	Element 3 - A product identity
	AF1.2.3.1	The product identity is: "INFORMATION TECHNOLOGY EQUIPMENT POWER SUPPLY", "I.T.E. POWER SUPPLY", or "QQGQ POWER SUPPLY".
	AF1.2.3.2	The product identity may be omitted if the Listing Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate that includes the rating or the catalog or model designation.
	AF1.2.3.3	Where products are so indicated in individual Test Reports, the product identity for a Listed Accessory shall include the word "ACCESSORY".
	AF1.2.3.4	Where Rebuilt products are authorized in individual Test Reports, the product identity for such products shall be preceded by "REBUILT", "REMANUFACTURED", or "RECONDITIONED", as appropriate.
	AF1.2.4	Element 4 – A control number represented above by XXXX is to be replaced with the Listee's file number.
	AF1.3	Element 5 – Products that are Complementary Listed to other categories shall include the statement "ALSO LISTED AS (PRODUCT IDENTITY)", where the product identity is that of the complementary category as indicated in individual Test Reports.
	AF1.4	A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) must include the four elements.
	AF1.5	The manufacturer may reproduce the Listing Mark or obtain it from a UL authorized supplier.

PART AF

Pro Pro	oduct Cai oduct Cai	tegory: Audio/Video Apparatus tegory CCN: AZSQ
AF	1.1	The Test Report covering each product must be consulted to determine which Listing Marks are authorized for use in conjunction with that product.
AF	1.1.1	The following Listing Mark is authorized for use on products which are Listed <u>only</u> to the requirements for the United States:
AF	1.1.2	Either of the following Listing Marks is authorized for use on products that are Listed to the requirements of <u>both</u> the United States and Canada:
AF	1.2	The Listing Mark consists of five elements that are placed in close proximity to each other and shall appear on Listed products only.
AF	1.2.1	Element 1 - UL Symbol. There is no required minimum height for the UL Symbol, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye. Information on downloading electronic versions or receiving camera-ready artwork of the UL Symbols may be obtained at www.ul.com
AF	1.2.2	Element 2 - The word "LISTED"
AF	1.2.3	Element 3 - A product identity
AF	1.2.3.1	The product identity is: "AUDIO/VIDEO APPARATUS", "AUDIO EQUIPMENT", "AUDIO PRODUCT", "AUDIO SYSTEM", "COMMERCIAL AUDIO EQUIPMENT", "COMMERCIAL AUDIO PRODUCT", "COMMERCIAL AUDIO PRODUCT", "COMMERCIAL AUDIO SYSTEM", "MUSICAL INSTRUMENT", "RADIO RECEIVER", "TELEVISION EQUIPMENT" (or "TV EQUIPMENT" or "TV EQUIP"), "TELEVISION RECEIVER", "VIDEO EQUIPMENT", "VIDEO PRODUCT", "VIDEO SYSTEM", AV PRODUCT", "AV APPARATUS", "AV POWER SUPPLY", or another product identity as shown in the individual Test Reports, or combinations of product identities where required.
AF	1.2.3.2	The product identity may be omitted if the Listing Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate that includes the rating or the catalog or model designation.
AF	1.2.3.3	Where Rebuilt products are authorized in individual Test Reports, the product identity for such products shall be preceded by "REBUILT" or "REMANUFACTURED", as appropriate.
AF	1.2.4	Element 4 – A control number represented above by XXXX is to be replaced with the Listee's file number.
AF	1.3	Element 5 – Products that are Complementary Listed to other categories shall include the statement "ALSO LISTED AS (PRODUCT IDENTITY)", where the product identity is that of the complementary category as indicated in the individual Test Reports.
AF	1.4	A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) must include the four elements.
AF	1.5	The manufacturer may reproduce the Listing Mark or obtain it from a UL authorized supplier.

PART AF

	Product Ca	tegory: Audio/Video Apparatus		
	T TOULCE Ca	legoly con. Azsqr		
Г		The Test Depart severing each product must be consulted to determine which Listing Marks are		
	AF 1.1	authorized for use in conjunction with that product.		
Ī	AF1.1.1	The following Listing Mark is		
		that are Listed <u>only</u> to the		
		requirements for Canada: (PRODUCT IDENTITY)		
	AF1.1.2	Arks is authorized for use on products that are Listed to the control of the cont		
		requirements of <u>both</u> the United LISTED (PRODUCT IDENTITY) XXXX (PRODUCT IDENTITY) XXXX		
	AF1.2	The Listing Mark consists of five elements that are placed in close proximity to each other and shall appear on Listed products only.		
	AF1.2.1	Element 1 - UL Symbol. There is no required minimum height for the UL Symbol, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When		
		omitted if it is not legible to the naked eye. Information on downloading electronic versions or		
ŀ	AF1 2 2	receiving camera-ready artwork of the UL Symbols may be obtained at <u>www.ul.com</u> Flement 2 - The word "LISTED"		
-	AF1.2.3	Element 3 - A product identity		
	AF1.2.3.1	The product identity is: "AUDIO/VIDEO APPARATUS", "AUDIO EQUIPMENT", "AUDIO PRODUCT", "AUDIO SYSTEM", "COMMERCIAL AUDIO EQUIPMENT", "COMMERCIAL AUDIO		
		PRODUCT", "COMMERCIAL AUDIO SYSTEM", "MUSICAL INSTRUMENT", "RADIO		
		RECEIVER", "TELEVISION EQUIPMENT" (or "TV EQUIPMENT" or "TV EQUIP"), "TELEVISION		
		"AV APPARATUS", "AV POWER SUPPLY", or another product identity as shown in the		
		individual Test Reports, or combinations of product identities where required.		
ſ	AF1.2.3.2	The product identity may be omitted if the Listing Mark is directly and permanently applied to the		
		product by stamping, molding, ink-stamping, silk screening or similar process. The product		
		nameplate that includes the rating or the catalog or model designation.		
	AF1.2.3.3	Where Rebuilt products are authorized in individual Test Reports, the product identity for such		
		products shall be preceded by "REBUILT" or "REMANUFACTURED", as appropriate.		
	AF1.2.4	Element 4 – A control number represented above by XXXX is to be replaced with the Listee's file number.		
	AF1.3	Element 5 – Products that are Complementary Listed to other categories shall include the		
		statement "ALSO LISTED AS (PRODUCT IDENTITY)", where the product identity is that of the complementary category as indicated in the individual Test Reports		
ŀ	AF1.4	A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels)		
		must include the four elements.		
ľ	AF1.5	The manufacturer may reproduce the Listing Mark or obtain it from a UL authorized supplier.		

Volume X4

Generic Inspection Instructions

PART AF

Product Category:	Power Supplies, Information Technology Equipment Including Electrical Business
Product Category CCN:	Equipment QQGQ7

AF1.1	The Test Report covering each product must be consulted to determine which Listing Marks are authorized for use in conjunction with that product.
AF1.1.1	The following Listing Mark is authorized for use on products that are Listed <u>only</u> to the requirements for Canada:
AF1.1.2	Either of the following Listing Marks is authorized for use on products that are Listed to the requirements of <u>both</u> the United States and Canada:
AF1.2	The Listing Mark consists of five elements that are placed in close proximity to each other and shall appear on Listed products only.
AF1.2.1	Element 1 - UL Symbol. There is no required minimum height for the UL Symbol, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye. Information on downloading electronic versions or receiving camera-ready artwork of the UL Symbols may be obtained at www.ul.com
AF1.2.2	Element 2 - The word "LISTED"
AF1.2.3	Element 3 - A product identity
AF1.2.3.1	The product identity is: "INFORMATION TECHNOLOGY EQUIPMENT POWER SUPPLY", "I.T.E. POWER SUPPLY", or "QQGQ POWER SUPPLY".
AF1.2.3.2	The product identity may be omitted if the Listing Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate that includes the rating or the catalog or model designation.
AF1.2.3.3	Where products are so indicated in individual Test Reports, the product identity for a Listed Accessory shall include the word "ACCESSORY".
AF1.2.3.4	Where Rebuilt products are authorized in individual Test Reports, the product identity for such products shall be preceded by "REBUILT", "REMANUFACTURED", or "RECONDITIONED", as appropriate.
AF1.2.4	Element 4 – A control number represented above by XXXX is to be replaced with the Listee's file number.
AF1.3	Element 5 – Products that are Complementary Listed to other categories shall include the statement "ALSO LISTED AS (PRODUCT IDENTITY)", where the product identity is that of the complementary category as indicated in individual Test Reports.
AF1.4	A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) must include the four elements.
AF1.5	The manufacturer may reproduce the Listing Mark or obtain it from a UL authorized supplier.

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20151013-E170507 E170507-20130925 2015-OCTOBER-13

Issued to: GLOBTEK INC 186 VETERANS DR NORTHVALE, NJ 07647 United States

This is to certify that representative samples of

POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT For models refer to Addendum Page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:UL 60950-1 AND CSA C22.2 No. 60950-1-07 Information
Technology Equipment - Safety - Part 1: General
RequirementsAdditional Information:See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.





Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20151013-E170507 E170507-20130925 2015-OCTOBER-13

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Switching Adapter - GT-81081-60x-y-a Series

Direct Plug In Switching Adapter (USL Only) GT-81041-2007.5-4.5-W2 GT-81041-2007.5-X.X-W2 where X.X is from 3.0 to 7.5 (by step of 0.1) GT-81041-2009.4-X.X-W2 where X.X is from 7.6 to 9.4 (by step of 0.1) GT-81041-2014-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2014L-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2024-X.X-W2 where X.X is from 18.0 to 24.0 (by step of 0.1) GT-81041-2007.5-4.5-W2, GT-81041-2007.5-X.X-W2 where X.X is from 3.0 to 7.5 (by step of 0.1) GT-81041-2009.4-X.X-W2 where X.X is from 7.6 to 9.4 (by step of 0.1) GT-81041-2014-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2014-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2014-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2014L-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1) GT-81041-2014L-X.X-W2 where X.X is from 9.5 to 14.0 (by step of 0.1)

Switching Adapter (USL Only) GT-81085-WWVV-X.X-W2 GT-81085-1307.5-X.X-W2

WW is output power in Watts, offset by 1 decimal place to the right, 001 - 130 VV is output voltage for base rated voltage 05-7.5

X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 7.5

GT-81085-1513.5-X.X-W2

WW is output power in Watts, offset by 1 decimal place to the right, 001 - 150 VV is output voltage for base rated voltage 09-13.5

X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 13.5.

North American Certification Program

UL LLC



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)				
Certification Type:	Listing				
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)				
Product:	ITE Power Supply				
Model:	GT*96600-*05-T**, GT*96600-*12-R** 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. For model GT*96600-*05-T**, it can be "01" to "40", with interval of 1; for model GT*96600-*12-R**, it can be "01" to "60", with interval of 1. The 3rd"*"=3 means desktop class I with C14 AC inlet =3A means desktop class I with C6 AC inlet The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for marketing purposes.				
Rating:	For model GT*96600-*05-T**: AC input: 100-240V~, 50-60Hz, 1.5A; DC output: 5.0V, 8Amax, 40Wmax (full rating) For model GT*96600-*12-R**: AC input: 100-240V~, 50-60Hz, 1.5A; DC output: 12.0V, 5Amax, 60Wmax (full rating) (For derating information please refer to enclosure id 7 01 and 7 07				
	for detail)				
Applicant Name and Address:	GLOBTEK (HONG KONG) LTD UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG				

Issue Date: 2017-06-06

Page 2 of 16

Report Reference #

2018-09-19

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 under the indicated Test Property bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Copyright © 2018

Prepared by: Louie Lee / Brian Wong

Reviewed by: Tony Yeung

2018-09-19

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.
 - iii. Part AF 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 equipment covered in this report is a AC to DC switching power supply unit intended for use with information technology equipment in TN power system and for indoor use only. It consists of a switching transformer, electronic components mounted on PWB and housed within plastic enclosure and sealed by ultrasonic welding. The unit employs an AC inlet for the connection to mains power and output with DC cord type.

Model Differences

Model GT*96600-*12-R** is similar to previous tested model GT*96600-*05-T** except enclosure, output rating and transformer TF059 used.

Technical Considerations

- Equipment mobility : transportable
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class I (earthed)
- Considered current rating of protective device as part of the building installation (A) : 20A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : 5000m
- Altitude of test laboratory (m) : <2000
- Mass of equipment (kg) : 0.291kg
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40°C at full load; 50°C at 80% load; 60°C at 60%

2018-09-19

load; 70°C at 40% load.

- The means of connection to the mains supply is: Pluggable A
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Appliance inlet
- The product was investigated to the following additional standards: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 (which includes all European national differences, including those specified in this test report).
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: CY2 secondary pin
- LEDs provided in the product are considered low power devices: Yes
- Operating Temperature: -20°C to 40°C ambient temperature, at Full Load
- Meets rated at 25W from -40°C to 55°C and derate to 19.2W at -40°C to 74°C

Additional Information

The equipment covered in this report has a de-rating characteristics. (For derating information please refer to enclosure id 7-01 and 7-07 for detail) This ITE Power Supply is for indoor-use only.

Project 4788614751 (Revision for UL report ONLY)

1. Add alternate model GT*96600-*12-R**

2. Add alternate transformer TF059 for model GT*96600-*12-R**

Additional Standards

The product fulfills the requirements of: EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013

Markings and instructions						
Clause Title Marking or Instruction Details						
Power rating - Ratings	Ratings (voltage, frequency/dc, current)					
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number					
Power rating - Model	Model Number					
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.					
Warning to service personnel	"CAUTION: Double pole/neutral fusing"					
Special Instructions to	Special Instructions to UL Representative					
N/A	N/A					

Production-L	Production-Line Testing Requirements									
Electric Stren	Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for									
further inform	nation.									
		Removable		V		Test Time,				
Model	Component	Parts	Test probe location	rms	V dc	S				
All model	T1	N/A	Primary winding to	300	4243	1s				
covered in			Secondary winding	0						
this report										
Earthing Con	tinuity Test Exer	<u>nptions - This te</u>	est is not required for th	ne followi	ng models:					
Electric Strer	ngth Test Exemp	tions - This test	is not required for the	following	models:					
Electric Strer	ngth Test Compo	nent Exemption	s - The following solid-	state con	nponents m	<u>ay be</u>				
disconnected	a from the remain	nder of the circu	itry during the perform	ance of ti	<u>nis test:</u>					
Sample and Test Specifics for Follow-Up Tests at UL										
				·		Test				
Model	Component	Material	Test	Sa	ample(s)	Specifics				
N/A										

Issue Date:	2017-06-06	Page 6 of 16	Report Reference #	E341351-A90-UL
	2018-09-19			

1.5.1	5.1 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
Plastic Enclosure	SABIC INNOVATIVE PLASTICS B V	945GG	Rated min V-0, min 2.0mm thick; (See id enclosure 7-02 for details of enclosure dimension.)	QMFZ2/8	UL/cUL (E45329)	
Appliance –Inlet (for T3A and R3A series)	ZHEJIANG LECI ELECTRONICS CO LTD	DB-6	Rated 5A, 250Vac, 105°C.	AXUT2/8	UL/cUL (E302229)	
-Alternate	TECX-UNIONS TECHNOLOGY CORP	TU-333 series	Rated 2.5A, 250Vac, 75°C.	AXUT2/8	UL (E220004)	
-Alternate	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-02	Rated 2.5A, 250Vac	AXUT2/8	UL/cUL (E226643)	
-Alternate	RICH BAY CO LTD	R-30790	Rated 2.5A, 250Vac, 105°C	AXUT2/8	UL/cUL (E184638)	
-Alternate	RONG FENG INDUSTRIAL CO LTD	RF-190	Rated 2.5A, 250Vac, 105°C.	AXUT2/8	UL/cUL (E102641)	
-Alternate	SHENZHEN DELIKANG ELECTRONICS TECHNOLOGY CO LTD	CDJ-2	Rated 2.5A, 250Vac, 105°C.	AXUT2/8	UL/cUL (E217394)	
Appliance –Inlet (for T3 and R3 series)	ZHEJIANG LECI ELECTRONICS CO LTD	DB-14	Rated 15A, 250Vac, 105°C	AXUT2/8	UL/cUL (E302229)	
-Alternate	TECX-UNIONS TECHNOLOGY CORP	TU-301-SP	Rated 15A, 250Vac , 105°C	AXUT2/8	UL (E220004)	
-Alternate	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-03	Rated 10A, 250Vac	AXUT2/8	UL/cUL (E226643)	
-Alternate	RICH BAY CO LTD	R-301SN	Rated 15A, 250Vac, 105°C	AXUT2/8	UL/cUL	

Issue Date:

Report Reference

E341351-A90-UL

2018-09-19

					(E184638)
-Alternate	RONG FENG INDUSTRIAL CO LTD	SS-120	Rated 15A, 250Vac, 105°C	AXUT2/8	UL/cUL (E102641)
-Alternate	INALWAYS CORP	0711	Rated 15A, 250Vac, 90°C	AXUT2/8	UL/cUL (E94191)
-Alternate	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A01-003J	Rated 15A, 250Vac, 95°C	AXUT2/8	UL/cUL (E225980)
Earthing Conductor	Interchangeable	Interchangeable	Yellow and Green in Color, provided between inlet and PWB secondary side. Rated min 300V, min105 degC, VW-1, min18 AWG	AVLV2/8	UL
Tube on earthing conductor	Interchangeable	Interchangeable	Rated minimum 105°C, minimum 300V, VW-1 or FT-1	YDPU2/8	UL
Fuse (F1) and (F2) F2 optional	Walter	2010	Rated 3.15A, 250Vac.	JDYX2/8	UL/cUL (56092)
-Alternate	Conquer Electronics Co., Ltd.	MST MET	T3.15A, 250V	JDYX2/8	UL/cUL E82636
-Alternate	Bel Fuse Ltd.	RST-Serie(s)	T3.15A, 250V	JDYX2/8	UL/cUL E20624
-Alternate	Cooper Bussmann LLC	SS-5	T3.15A, 250V	JDYX2/8	UL/cUL E19180
-Alternate	Shenzhen Lanson Electronics Co. Ltd.	SMT	T3.15A, 250V	JDYX2/8	UL/cUL E221465
-Alternate	Interchangeable	Interchangeable	Rated 3.15A, 250Vac.	JDYX/7	UL
Varistor (MOV1) (optional)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10471, TVR14471	Rated 300Vac. 85 degree C. Body coated with minimum V-1 material.	VZCA2/8	UL/cUL (E314979)
-Alternate	JOYIN CO LTD	7N471K, 10N471K, 14N471K	Rated 300Vac. 85 degree C. Body coated with minimum V-1 material.	VZCA2/8	UL/cUL (E325508)
-Alternate	CENTRA SCIENCE CORP	CNR07D471K, CNR10D471K, CNR14D471K	Rated 300Vac. 105 degree C. Body coated with minimum V-1 material.	VZCA2/8	UL/cUL (E316325)

Issue Date: 2017-06-06

Page 8 of 16

Report Reference

E341351-A90-UL

2018-09-19

-Alternate	SUCCESS	SVR07D471K,	Rated 300Vac. 105 degree C.	VZCA2/8	UL/cUL
	ELECTRONICS CO	SVR10D471K,	Body coated with minimum V-1		(E330256)
	LTD	SVR14D471K	material.		
-Alternate	BRIGHTKING	471KD07,	Rated 300Vac. 105 degree C.	VZCA2/8	UL/cUL (
	(SHENZHEN) CO	471KD10,	Body coated with minimum V-1		E327997)
	LTD	471KD14	material.		
-Alternate	WALSIN	VZ07D471K,	Rated 300Vac. 105 degree C.	VZCA2/8	UL/cUL
	TECHNOLOGY	VZ10D471K	Body coated with minimum V-1		(E309297)
	CORP		material.		
-Alternate	LIEN SHUN	07D471K,	Rated 300Vac. 105 degree C.	VZCA2/8	UL/cUL
	ELECTRONICS CO	10D471K,	Body coated with minimum V-1		(E315524)
	LTD	14D471K	material.		
-Alternate	CERAMATE	GNR07D471K,	Rated 300Vac. 105 degree C.	VZCA2/8	UL/cUL
	TECHNICAL CO LTD	GNR10D471K,	Body coated with minimum V-1		(E315429)
		GND14D471K	material.		
X-Capacitor	CHENG TUNG	CTX	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
(CX1) (Optional)	INDUSTRIAL CO		250Vac, 100deg C, marked X1		(E193049)
	LTD		or X2		
-Alternate	WINDAY	MPX	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
	ELECTRONIC		250Vac, 100deg C, marked X2		(E302125)
	INDUSTRIAL CO				
	LTD				
-Alternate	ULTRA TECH XIPHI	HQX	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
	ENTERPRISE CO		250Vac, 100deg C, marked X2		(E183780)
	LTD				
-Alternate	OKAYA ELECTRIC	RE series	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
	INDUSTRIES CO		250Vac, 100deg C, marked X2		(E47474)
	LTD				
-Alternate	VISHAY	F1772	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
	CAPACITORS		250Vac, 100deg C, marked X2		(E354331)
	BELGIUM N V				· · · · ·
-Alternate	TENTA ELECTRIC	MEX	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
	INDUSTRIAL CO		250Vac, 100deg C, marked X2		(E222911)
	LTD				
-Alternate	DAIN	MEX, MPX, NPX	Rated 0.47uF max. Min	FOWX2/8	UL/cUL
	ELECTRONICS CO	, ,	250Vac, 100deg C. marked X2	-	(E147776)
	LTD				
		I			1 1

Issue Date: 2017-06-06 Page 9 of 16 Report Reference # E341351-A90-UL 2018-09-19

-Alternate	SINHUA ELECTRONICS (HUZHOU) CO LTD	MPX	Rated 0.47uF max. Min 250Vac, 100deg C, marked X1 or X2	FOWX2/8	UL/cUL (E237560)
-Alternate	FOSHAN SHUNDE CHUANG GE ELECTRONIC INDUSTRIAL CO LTD	MKP-X2	Rated 0.47uF max. Min 250Vac, 100deg C, marked X2	FOWX2/8	UL/cUL (E308832)
Y-Capacitors (CY1, CY2) –(Optional)	WELSON INDUSTRIAL CO LTD	WD	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E104572)
-Alternate	SUCCESS ELECTRONICS CO LTD	SE, SB	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E114280)
-Alternate	TDK CORP	CD	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E37861)
-Alternate	WALSIN TECHNOLOGY CORP	AH	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E146544)
-Alternate	JYA-NAY CO LTD	JN	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E201384)
-Alternate	KUNSHAN WANSHENG ELECTRONICS CO LTD	CT7	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E249006)
-Alternate	MURATA MFG CO LTD	КХ	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E37921)
-Alternate	HAOHUA ELECTRONIC CO	CT7	Rated max.2200pF Min 250V, 125degC, marked with Y1	FOWX2/8	UL/cUL (E233106)
Line Filter (LF2) (optional)	Interchangeable	NF00031	130 degree C (OBMW2) coil wound on a core. (see enclosure id 4-02 for detail)		
- Core			Ferrite core, approximate overall 16 by 12 by 8 mm.		
- Wire	NINGBO JINTIAN NEW MATERIAL CO	2UEW	MW 75-C, 130 degree C	OBMW2	UL/cUL (E227047)
Issue Date: 2017-06-06 Page 10 of 16 Report Reference # E341351-A90-UL 2018-09-19

	LTD				
-Alternate	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW 75-C, 130 degree C	OBMW2	UL/cUL (E206882)
-Alternate	Interchangeable	Interchangeable	MW 75-C, 130 degree C	OBMW2	UL
- Tube	SHENZHËN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR-H	600V, 125 degree C, VW-1	YDPU2	UL/cUL (E203950)
Line Filter (LF1) (optional) (Alternate)	Interchangeable	Interchangeable	130 degree C (OBMW2) coil wound on a core. (see enclosure id 4-01 for detail)		
- Core			Ferrite core		
- Wire	NINGBO JINTIAN NEW MATERIAL CO LTD	UEW	MW 75-C, 130 degree C	OBMW2	UL/cUL (E227047)
-Alternate	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2EUW	MW 75-C, 130 degree C	OBMW2	UL/cUL (E158909)
-Alternate	Various	Various	MW 75-C, 130 degree C	OBMW2	UL
- Triple Insulated Wire	QIDONG BLUELINK ELECTRONICS CO LTD	TRW –(B)	130 degree C	OBJT2	UL/cUL (E365660)
- Triple Insulated Wire -Alternate	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Rated 130 degC	OBJT2	UL (E211989)
- Glue (Epoxy)	SUZHOU EATTO ELECTRONIC MATERIALS CO LTD	3300A/3300B	V-0	QMFZ2	UL/cUL (E253983)
-Alternate	Interchangeable	Interchangeable	V-0	QMFZ2	UL/cUL
Transistor (Q1)	Interchangeable	Interchangeable	Rated min 7A, Min. 600V		
Transformer (T1)	GLOBTEK INC / WUXI HAOPUWEI ELECTRONICS CO LTD	TF058(for model GT*96600-*05- T**) TF059(for model GT*96600-*12- R**)	(OBJY2) Class B. (See enclosure id 4-03 and 4-04 for details.		

Issue Date: 2017-06-06 Page 11 of 16 Report Reference # E341351-A90-UL 2018-09-19

- Insulation system used in T1	GLOBTEK INC	GTX-130-TM	Class 130 (B) Insulation System.	OBJY2	UL (E243347)
- Insulation system used in T1 (Alternate)	WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130	Class 130 (B) Insulation System.	OBJY2	UL (E315275)
- Primary winding used in T1	Interchangeable	Interchangeable	Polyurethane with or without overcoat Polyamide, 130 degC Min. Type MW-75 or MW-28.	OBMW2	UL
- Secondary winding used in T1	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Rated 130 degC Triple insulated wire	OBJT2	UL (E211989)
- Bobbin used in T1	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic, rated V-0, 150 degC, min 0.45mm thick	QMFZ2	UL (E59481)
- Insulation Tape used in T1	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ, CT	Rated 130 degC.	OANZ2	UL (E165111)
- Insulation Tape used in T1 (Alternate)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Rated 130 degC.	OANZ2	UL (E246950)
- Varnish used in T1	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	T-4260(a)	MW 28. Rated 130 degC.	OBOR2	UL (E228349)
- Tube used in T1	GREAT HOLDING INDUSTRIAL CO LTD	TFL, TFT	VW-1. Rated 150V, 200 degC for TFL; Rated 300V, 200 degC for TFT	YDPU2	UL (E156256)
- Tube used in T1 (Alternate)	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	VW-1. Rated 600V, 200 degC	YDPU2	UL (E203950)
Opto-couplers (U4)	EVERLIGHT ELECTRONICS CO LTD	EL817	Rated min. 110deg C Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL/cUL (E214129)
Opto-couplers (U4) (Alternate)	COSMO ELECTRONICS CORP	K1010, KP1010	Rated min. 115deg C Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL/cUL (E169586)
Opto-couplers (U4)	LITE-ON	LTV-357T, LTV-	Rated min. 115deg C Provide	FPQU2/8	UL/cUL

Issue Date: 2017-06-06 Page 12 of 16 Report Reference # E341351-A90-UL 2018-09-19

(Alternate)	TECHNOLOGY CORP	817	min 3750Vac isolation test voltage rating for LTV-357T and LTV-357, 5300Vac isolation test voltage rating for LTV-817.		(E113898)	
Opto-couplers (U4) (Alternate)	FAIRCHILD SEMICONDUCTOR CORP	H11A817B, FOD817B	Rated min. 110deg C Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL/cUL (E90700)	
Opto-couplers (U4) (Alternate)	SHARP CORP ELECTRONIC COMPONENTS AND DEVICES GROUP	PC817	Rated min. 100deg C Provide min 5000Vac isolation test voltage rating.	FPQU2	UL (E64380)	
Opto-couplers (U4) (Alternate)	BRIGHT LED ELECTRONICS CORP	BPC-817, BPC- 817M, BPC817S series	Rated min. 100deg C Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL (E236324)	
Heat Sink - HS1			Aluminium. Approximate overall dimension 82mm by 43mm by 23.5mm, 2.0mm thick, secured to PWB by soldering. (see enclosure id 7-05 for dimension)			
Heat Sink - HS2			Aluminium. Approximate overall dimension 103.5mm by 14.5mm by 24mm, 2.0mm thick, secured to PWB by soldering. (see enclosure id 7- 06 for dimension)			
Tube used on HS2	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR-H	600V, 125degC, VW-1, min. 0.4 mm thick	YDPU2	UL (E203950)	
Insulation tape provided on HS1	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1, 44	Rated 130 degC - Insulating tape wrapped around HS1 should be double pack edged (wrapped over the edge), the tape should also has a 10mm extension towards the heatsink body and have minimum 2	OANZ2	UL (E17385)	

Issue Date:	2017-06-06	Page 13 of 16	Report Reference #	E341351-A90-UL
	2018-09-19			

			layers			
Insulation tape provided on HS1(Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F, 1350-1	Rated 130 degC - Insulating tape wrapped around HS1 should be double pack edged (wrapped over the edge), the tape should also has a 10mm extension towards the heatsink body and have minimum 2 layers	OANZ2	UL (E17385)	
Insulation tape provided on HS1(Alternate)	SYMBIO INC	35660Y	Rated 130 degC - Insulating tape wrapped around HS1 should be double pack edged (wrapped over the edge), the tape should also has a 10mm extension towards the heatsink body and have minimum 2 layers	OANZ2	UL (E50292)	
Insulation tape provided on HS1(Alternate)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	СТ	Rated 130 degC - Insulating tape wrapped around HS1 should be double pack edged (wrapped over the edge), the tape should also has a 10mm extension towards the heatsink body and have minimum 2 layers	OANZ2	UL (E165111)	
Insulation tape provided on HS1(Alternate)	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Rated 130 degC - Insulating tape wrapped around HS1 should be double pack edged (wrapped over the edge), the tape should also has a 10mm extension towards the heatsink body and have minimum 2 layers	OANZ2	UL (E246820)	
DC output cord	Interchangeable	Interchangeable	Jacketed wire. Min. 24AWG, min. VW-1,Min.80°C, min. 60V.	AVLV2/ZJCZ2	UL	
Strain Relief	Interchangeable	Interchangeable	Min. V-1 (see enclosure id 7-03 for detail)	QMFZ2	UL	

Issue Date:	2017-06-06	Page 14 of 16	Report Reference #	E341351-A90-UL
	2018-09-19			

Label (Optional)	Interchangeable	Interchangeable	Rated min 80deg C. Suitable	PGDQ2/PGJI2	UL	
(Alternate)	-	_	for use on the plastic enclosure			
PWB	Interchangeable	Interchangeable	Min. V-1, 130°C (see enclosure	ZPMV2	UL	
	-	_	5-01, 5-02 for layout)			
Glue (for fixing or	Interchangeable	Interchangeable	Min. V-2	QMFZ2	UL	
thermal)	-	_				
Bridge diode BD1	Interchangeable	Interchangeable	Min.4A, Min. 600V			
Indication LED in	Interchangeable	Interchangeable	minimum 0.4mm plastic head			
secondary circuit	-	_	cover			

Enclosures

Type	Supplement Id	Description
Photographs	3-01	Overview of model GTM96600-4005-T3
Photographs	3-02	Overview of model GTM96600-4005-T3
Photographs	3-03	Input side view of model GTM96600-4005-T3
Photographs	3-04	Output side view of model GTM96600-4005-T3
Photographs	3-05	Internal view of model GTM96600-4005-T3
Photographs	3-06	Top view of PCB for model GTM96600-4005-T3
Photographs	3-07	Bottom view of PCB for model GTM96600-4005-T3
Photographs	3-08	Internal view of model GTM96600-4005-T3
Photographs	3-09	Overview of Transformer T1
Photographs	3-10	Overview of Transformer T1
Photographs	3-11	Overview of model GTM96600-6012-R3A
Photographs	3-12	Input side view of model GTM96600-6012-R3A
Photographs	3-13	Output side view of model GTM96600-6012-R3A
Photographs	3-14	Internal view of model GTM96600-6012-R3A
Photographs	3-15	Top view of PCB for model GTM96600-6012-R3A
Photographs	3-16	Bottom view of PCB for model GTM96600-6012-R3A
Photographs	3-17	Overview 1 of Transformer T1 (TF059 for model GT*96600-*12- R**)
Photographs	3-18	Overview 2 of Transformer T1 (TF059 for model GT*96600-*12- R**)
Diagrams	4-01	LF1 spec
Diagrams	4-02	LF2 spec
Diagrams	4-03	Transformer T1 - TF058 spec
Diagrams	4-04	Transformer T1 - TF059 spec
Schematics + PWB	5-01	PWB layout (Top)
Schematics + PWB	5-02	PWB layout (bottom)
Schematics + PWB	5-03	Circuit schematic
Miscellaneous	7-01	Instruction manual / derating characteristics for model GTM96600-4005-T3
Miscellaneous	7-02	Enclosure dimension drawing for model GTM96600-4005-T3
Miscellaneous	7-03	Strain relief spec
Miscellaneous	7-04	Label artwork for model GTM96600-4005-T3
Miscellaneous	7-05	Dimension drawing of Heatsink HS1
Miscellaneous	7-06	Dimension drawing of Heatsink HS2
Miscellaneous	7-07	Instruction manual / derating characteristics for model GTM96600-

Issue Date:

2017-06-06

Page 16 of 16

Report Reference #

2018-09-19

		6012-R3A
Miscellaneous	7-08	Label artwork for model GTM96600-6012-R3A





57 40 61 62 63 64



E

85 86

soupur

Inches

MEDICAL/ ITE POWER SUPPLY RUE TO A PART NOVELE TRECASCOLLEPIM(R68) MODEL/TET: GTM96800 4003 4 0 T3 INPUTHE A 100-2409- 50-60Hz 1 SA CUTPUTHER: 5.0 9 ----- 8 0A.40W



GlobTek, Inc.



Ro-15704638112/17

Created by UL Document Assembler 2018-09-19 20:11:08 -05:00











Created by UL Document Assembler 2018-09-19 20:11:08 -05:00



Created by UL Document Assemble 2018-09-19 20:11:08 -05

10/451

Peda

41002J

41000 V

8

C.A

600 St

illini,

HONI

Dx

S

X

6

Created by UL Document Assemble: 2019-05: 19 20:11:08 -05:

7





60 20 40 30 50 10 W

1.17

PHO-12

50705 05 09 002 08 06 Greated by IL Dock Open 8-09-9 20:1 :08 05:00 2 08 06



Created by UL Document Assembler 2018-09-19 20:11:08 -05:00







Created by UL Document A Sembler 2018-09-19 20:11:08 -05:00

•

PD

Created by UL Document Assembler 2018-09-19 20 4000 05:00

01

POWER SUPPLY INFORMATION

MIS-01

TYPE:	Desktop/External
TECHNOLOGY:	Regulated Switchmode AC-DC
CASE COLOR:	GlobTek Black
NAMEPLATE RATED	100-240V~, 50-60Hz, 1.5A
INPUT CONFIG:	IEC 60320/C14
WATTS:	40.0
VOLTS OUT:	5.0
CURRENT OUT (Amps):	8.0
BLADE/CORD INCLUDED:	None: (Order Separately)
BLADE/CORD INSTALLED	None: (Order Separately)
EFFICIENCY LEVEL:	VI
OUTPUT	1200 mm, 14/1C + Shield Cond, UL 1185, Female Barrel 5.5 * 2.5 * 11.5mm with internal Spring Clip and Locking
CONFIGURATION	Notch or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C4779
CONNECTOR PIN OUT:	Center Positive (+V)
LABEL SPECS:	TR9CA8000LCP003H Label,L-1501
PACK SPEC:	TR9CA8000LCP003H Packing

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec):

\wedge	Operating Alti	ude: 5000 Meters
	Regulatory Certific	ations/Label Markings
Power ripple: <100mV		Class I Earth Ground
Operation Temperature: -10-70°C Humidity: 0-95%		Indoor Use Only - Mark is on the label or Molded in the case
De-rating curve: up to 70°C	ᢒ᠆€᠆€	Center Positive (+V)
2. Use DC plug overmolding DC000047		
3. Warning to service persons		

CAUTION

DOUBLE POLE/NEUTRAL FUSING



LCL5/C47391

ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW

CABLE TYPE	UL 1185
CABLE LENGTH (mm)	1200
CABLE TOLERANCE (mm)	+/-50
WIRE GAUGE (AWG)	14
CONDUCTORS	1C + Shield
HANK DIMENSION (mm)	80 ± 15
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE / DIMENSION	Core Size: 14.2*28.5*8.2
FERRITE # OF TURNS (Definition)	1 Pass thru core (0 turns)
FERRITE DIMENSION FROM STRAIN RELIEF	50 ±10
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Female Barrel 5.5 * 2.5 * 11.5mm with internal Spring Clip and Locking Notch or Equal
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	Center Positive (+V)
	Low resistance 14 gauge, UL1185, 5.0mm cable diameter 1.2m

ADDITIONAL REQUIREMENTS





ADDIFIONAL/QUITIBUT INHOR ORSIGNS AREAN AND ASLEDATI http://www.globtek.com/connectors/ STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT http://www.globtek.com/connectors/

File E341351













Created by UL Document Assembler 2018-09-19 20:11:08 -05:00

Welding line dimension

File E341351







File E341351

NOTE:

1.All dimensions are in mm.

2. Material, 2mm thick, 1060 Aluminum alloy,

or equivalent.

3. It is imperative that measurements be within tolerance table for unit to function properly.

所有权信息: 本文件所有权属于 GLOBTEX 公司,任何基体和部分的复制都是禁止和非法的,除非取得 GOLBTEX 公司的授权允许。 PROPRIETARY INFORMATION: PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE REVISION 修订本 REV DESCRIPTION 描述 DATE APPROVED 2011.03.25 INITIAL RELEASE Α JB OR USE OF THIS DRAWING IN WHOLE OR PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC .



所有权信息



65.0 58.0





Insulating tape wrapped around HS1 should be double pack edged (wrapped over the edge), the tape should also has a 10mm extension towards the heatsink body and have minimum 2 layers

C~4	+/-0.05	+/-0.1	+/-0,Z	-				PART NO 等件号	REV.版本		DESCRIPTION	N 描述	NOTES备注
4~16	+/-0.08	+/-0.15	+/-0.3		GTSZ PN: 476-02013502(R)								
16~64 64~250	+/-0.12	+/-0.25	+/-0.5	-	<u>5.0</u>	WHERE USED:用刻	¢:		(GlobTek(S	uzhou	l), Co.,L	td
			ar bl-			LOCATION:区域 GTSZ	2	OLERANCES 23	·差: Te	l: +86-512-6279-0301 Fa	x: +86-512-6279	-0355 Web: www.gl	lobtek.cn
GLODIEE 公司小利本語式准而還目修改部件 而影响的安全和性能负责,终端用户必须参考 UL、CSA或IIN标准规定正确的安装。 Ecot Note:			₽°+ ●考	Globtek 产品未按权不得使用于医疗设备中 以及危险环境依试验或者飞机上。除非有 GLOBTEIX 公司首席执行官的书面正式批准。 Limitation of Lea	文件内容未经允许不得更改	INIT.BY: 申请者		- See table : GRADE 5	² Dı	rawing Title: 50W-HEAT	SINK	2	
Globtek Inc. will not be liable for the safety and performance of these parts if unauthorized access and repair occurs. End user about consult anniheshal III. CSA or EN			id FN	Globiek product are not authorized for use as mission official components in life support, hszerdous environment, nuclear or sincraft apolicitions without nor written anonwal	Contents of this document are subject to chance without price police	DRAWN: JOHN 制图 APPROVED:	DATE: 2011.03.2 日期 DATE: 2011.03.2	5 SIZE:A4	мс	DEL NO型号: GTM91099	PART NO: N/A	零件号 :	Rev.版本 A
Crestandards for proper installation instructions + Assen			t Assen	her for the CEO of Global Inc. 11.08 -05.00		批准 JB	日期	SCALE比例:	1:1			SHEET 1 C	DF 1

File E341351

NOTE:

1.All dimensions are in mm.

10

2. Material, 2mm thick, 1060 Aluminum alloy,

or equivalent.

A. It is imperative that measurements be within tolerance table for unit to

function properly.









DATE

2011.03.25

APPROVED

JB

01

	<u>р </u>									
Tolerance table										
RANGE GRADE 1 GRADE 2 GRADE 3 0~4 +/-0.05 +/-0.1 +/-0.7	0-0-2M3				PART NO 零件号	REV.版本		DESCRIPTION	描述	NOTES备注
4~16 +/-0.08 +/-0.15 +/-0.3	31,0				GTSZ PN: 47	6-02013501(R)			
16~64 +/-0.12 +/-0.25 +/-0.5 64~250 +/-0.25 +/-0.4 +/-0.8	P		WHERE USED:用如	t :	TOLERANCES公	± G	lobTek(S	uzhou)	, Co.,L t	td
尾注: Globtek 公司不对去经批准而接自终改部件	禁用:		GTSZ	2	0	Tel:	+86-512-6279-0301 Fax	c: +86-512-6279-0:	355 Web: www.glo	obtek.cn
而影响的安全和性能负责,终端用户必须参考 UL 、CSA 或IN标准规定正确的安装。 Foot Note:	Globtek 严扁未爱权不得使用于监疗设备中 以发危险环境核试验或者飞机上。除非有 GLOBTEX 公司首席执行官的书面正式批准。 Limitation of Use:	文件内容未经允许不制更改	INIT.BY: 申请者	DATE: 2011.03.25 日期	- See tadie : Grade 5	² Dra 6	wing Title: 0W-HEAT	SINK1		
Globtek Inc. will not be liable for the safety and performance of these parts if unauthorized access and repair occurs. End user should consult applicable UL_CSA or EN	Globtek product are not authorized for use as mission oritical components in life support, hazardous environment, nuclear or alcraft anolicitios without order written approval	Contents of this document are subject to change without prior notice	前图 APPROVED:	日期 DATE: 2011.03.28 DATE: 2011.03.28	SIZE:A4	MOD	EL NO型号: GTM91099	PART NO孝 N/A	件号:	Rev.版7 A
Crestandards for proper installation instructions + Assembly	er from the CER of Platety In- 11.08 -05.00		批准 JB	開	SCALE比例:	1:1			SHEET 1 O	F 1
-										

所有权信息: MIS-06 本文件所有权属于 GLOBTEX 公司,任何整体和部分的复制都是禁止和非法的,除非取得 GOLDTEX 公司的授权允许。 PROPRIETARY INFORMATION: PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE REVISION 修订本 REV DESCRIPTION 描述 INITIAL RELEASE Α OR USE OF THIS DRAWING IN WHOLE OR PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

MIS-07

	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: G	lobTek Black, Wall				
GlobTek, Inc.	Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 v	w/ Wall Blades				
www.globtek.com	Option , Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Japan, Approvals: CB					
186 Veterans Drive,	Ve, 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WE					
Northvale, NJ 07647	PSE PSE					
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A					
rax (201) 764-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B				

	REVISION HISTORY			
REV	DESCRIPTION	SUB	DATE	APPROVED
в	Changed output cord from 16AWG to 18AWG meeting engineering spec and proper match with ferrite core.	jsund	07/17/2018	QA
Α	INITIAL RELEASE	jsund	07/10/2018	QA

In Addition to GlobTek Inc.'s renewed ISO9001:2008 - Quality Management System Certification, GlobTek Inc. is now certified to:

ISO13485:2003 - Medical Devices Quality Management System Certification ISO14001:2004 - Environmental Management System Certification

ISO Certificates are available online at http://www.globtek.com/iso-certificates/

Customer Approval of Specification:

Please approve, sign and send back to GlobTek so we can complete order processing.

A delay in receipt of this form will delay delivery schedule. Company Name: Customer P/N: Quote Number: Date:

Authorized Representative Name:

Authorized Representative Signature:

The acceptance of this specification and use of the product described in this document indicates the acceptance and binding of the customer to Globtek terms and conditions, which supersede all other agreements, terms, and conditions (<u>http://en.globtek.com/terms-and-conditions/</u>).

Footnote:

GlobTek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

Limitation of Use:

GlobTek products are intended for use with commercial, medical, and/or industrial equipment only. GlobTek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of GlobTek Inc. Contents of this document are subject to change without prior notice.

RELEASED By N Frost at 3:49 pm Jul 17, 2018

PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSHEE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC. ANY REPRODUCTION, DISCLOSHEE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.



MIS-07

	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: G	lobTek Black, Wall				
GlobTek, Inc.	Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ W					
www.globtek.com	Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equa	I, Ferrite: Core Size:				
186 Veterans Drive,	230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WE					
Northvale, NJ 07647	PSE PSE					
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A					
rax (201) 764-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B				

POWER SUPPLY INFORMATION

TYPE: TECHNOLOGY: CASE COLOR:	Wall Plug-in+Desktop Combination Regulated Switchmode AC-DC Power Supply AC Adaptor GlobTek Black					
NAMEPLATE RATED	100-240V~, 50-60 Hz, 1.5 A					
INPUT CONFIG:	IEC 60320/C6 w/ Wall Blades Option					
WATTS:	60.0					
VOLTS OUT:	12					
CURRENT OUT (Amps):	5					
BLADE/CORD INCLUDED:	R-NA-3: R-Series 5-15P N.Amer,China, Japan					
BLADE/CORD INSTALLED: R-NA-3: R-Series 5-15P N.Amer,China, Japan						
GROUNDING CONFIGURATION	(F2) Isolated Functional Earth for GTM96 series, Improved EMC					
EFFICIENCY LEVEL:	VI					
OUTPUT	1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2,					
CONFIGURATION	GlobTek Black, GT Cord # C21657					
OVERMOLDED	No					
CONNECTOR PIN OUT:	Red Lead (+), Black Lead (-)					
LABEL SPECS:	Standard GT,L-1186					
PACK SPEC:	C-240000XX with R-NA-3(R) packing					

2018.07.28 、工程部

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec):

OUTPUT REGULATION: +/-5%, from No load to 5A Load condition, measured at the output connector CRITICAL!!

1. IMPORTER NAME FOR TUV PSE MUST SHOW DIGI INTERNATIONAL ON LABEL.



Digi International 株式会社

2. PRE-INSTALLED NORTH AMERICAN BLADE, R-NA-3(R) -- DESKTOP INSERT IS NOT INCLUDED.

3. CUSTOMER SPECIFIC PACKAGING REQUIRED, NO EXCEPTIONS

WHITE GIFT BOX 142*115*60mm, BOX QTY: 30

4. SUPPLEMENTARY LABEL AND MASTER LABEL INFORMATION.

5. Operating Temperature: -20°C to 40°C ambient temperature, @ Full Load.

(Meets rated at 25W from -40C to 55C and derate to 19.2W at -40C to 74C)

PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 2 of 19 WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)
e E341351		MIS-07	
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, I Plug-in+Desktop Combination, Regulat Option, Output Rating: 60W, 12V@5A, 14.2*28.5*8.2, GlobTek Black, GT Cord 230V CoC Tier 2 ETL South African ET PSE PSE	TE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: ed Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50 Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tim I # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 'L S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Lev	VI, Case Color/Style: GlobTek Black, Wall -60 Hz, IEC 60320/C6 w/ Wall Blades ned 9 +/- 2mm or Equal, Ferrite: Core Size: 5-15P N.Amer,China, Japan, Approvals: CE el VI LPS RoHS Ukraine VCCI WEEE PSE
Tel. (201) 784-1000	Model No. GTM96600-6012-F	R3A	
Fax (201) 784-0111	Part No./Ordering No. RR9LE		Rev B
SUPPLEMENTARY	label:	<u> </u>	
	Label to be applied to housing an	id White box	
	Т	DP OF LABEL	
		/	
	- 25.4 -		
	4		
	YYWW CoO:China	CN	
	<u> </u>		
	a	1 2	
APPLICABLE LA	BEL INFORMATION (To include	layout, lines, barcodes, etc.) :	
 Country of or Text Label R Digi Part Nur 	rigin: CHINA CN evision: - mber: PN:(1P) 24000141 , (NOT	E: Revísion not to be incorporated in Barcode)	
4) #1 ### #11#			
1P24000	1111 (Data encoded in the Ba	Toda no enger)	
Code 20	or 128 0.22" bigh	ir Code - no spaces)	
5) YYWW	(YY = last 2 digits of year, WW)	= week all font 0.06" x 0.04")	
		_	
		A SALAN AND A S	
		文件发行 兼	
		2018.07.28	
		工程部	

PROPRIETARY INFORMATION PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/ Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 603 Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm of 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,C 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS PSE PSE	Style: GlobTek Black, Wal 320/C6 w/ Wall Blades or Equal, Ferrite: Core Size China, Japan, Approvals: C 8 Ukraine VCCI WEEE PS
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A	
rax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B
MASTER PACKA a. Each master pactor to facilitate re-cy b. The content of e 1. Digi Part Nur 2. Digi Purchase 3. Quantity per a 4. Container nur 5. Country of Or 6. Digi Part Nur Note: Items 1 7. The bar-code 8. Character size inches (12.7 r 9. Any other infi	IGE LABELING: (age / container shall be marked using a printed paper label stock and wax based ink vcleability of kraft paper containers. ach container label, at a minimum, shall contain the following information: aber (PN:), Order Number (P.O.NO:), container, aber and total number of containers, igin, aber revision (Rev:), , 2 and 3 shall be displayed in human readable and code 3 or 9 or code 128 bar-code. identifiers (1P), (R), (K) and (Q) shall be added as a 'prefix header' to the bar-code. - human readable shall be 0.25 inches (6.35 mm) in height, bar-codes shall be 0.5 mm) in height. Dimension tolerances are \pm 15%. Sommation on the label is at the discretion of the vendor. TOP OF LABEL	
ALL BARCODE- CODE 39 PO # TO BE PROVIDED WITH EACH PO	Digi PN: (1P) 24000141 Rev: (R) - P.O. NO: (K) Quantity: (Q) 30	
TO BE PROVIDED WITH SHIPMENT	Container NO: Containers Date: XXX of XXX MM/DD/YY Product Description, etc.: Image: Control of Origin: China, CN	
cont.	文件发行 2018.07. 工程部	28
ROPRIETARY INFORMA	-10N	

WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option , Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE PSE PSE		
	Model No. GTM96600-6012-R3A		
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B	



CIPROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS PROVIDE ON WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC. QA (07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option , Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE PSE PSE	
	Model No. GTM96600-6012-R3A	
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B



e E341351	MIS-07	
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60 Option , Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoH PSE PSE	r/Style: GlobTek Black, Wall 3320/C6 w/ Wall Blades n or Equal, Ferrite: Core Size: ,China, Japan, Approvals: CB IS Ukraine VCCI WEEE PSE
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A	
Fax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B
		ļ.
ELECTRICAL SPI	ECIFICATIONS	
 A) ELECTRICAL SPI 01. Input Voltage: Sp 90-264 Vac ran 85-264 Vac ran 110-370 VDC r. 02. Input Frequency: 03. Output Regulatio 04. Line Voltage Reg 05. Green Power On 06. Output Ripple (V) impedance 47 uf elect 07. Turn-ON/OFF Ov 08. Turn-ON Delay: 1 09. Hold-Up Time: 8 10. Inrush Current: 3 11. Efficiency: Comp 12. No Load Standby 	ECIFICATIONS: ecified 90-264 Vac, Nameplate rated: 100-240Vac ge @ 100% of rated load current ge @ 85% of rated load current Specified 47-63 Hz, Nameplate rated 50-60Hz n: +/- 5% measured at the output connector ulation: +/- 0.5% typical measured at full load Indicator LED >-p): 1% or 100 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in trolytic capacitor connected at the end of the output connector ershoot: 5% maximum, 1 mS typical recovery time for 40% to 70% step load second maximum @ full load, nominal line mS typical @ nominal input voltage and full load 0A/60A maximum cold start @ 115/230Vac input iant with Efficiency Level VI and CoC Tier 2 standards Power: <0.075 W @ 230Vac for <= 49W output power rating, <0.15W @ 230Vac for > 49W output power rating	parallel with a low
 B) PROTECTION 01. Input Protection: 02. Short Circuit/ Ove Output Current I (upper end of cu not derated output 03. Output Over-Volt 	Input line fusing and 300Vac MOV Prload: Electronically Protected unit will auto recover upon removal of fault Limit: 110% to 160% of rated output current Irrent limit range is determined by normal output power rating, Sout power level) age: 110% to 130% of nominal output voltage	
C) SAFETY 01. Dielectric Withsta On Class I models, 3 02. Earth Leakage C 03. Touch Current: C 04. <u>Output Isolation (</u> a) C8 or C18 Inlet, b) C6 or C14 Inlet, c) C6 or C14 Inlet, 05. Earth Continuity 06. Means of Protect 07. Compliant Standa	nd Voltage: 4000Vac or 5656Vdc from input to output, 000Vac or 4242Vdc from input to earth urrent: Class I models < 300uA, N/A for Class II models lass I models < 20uA, Class II models < 75uA <u>Options:</u> Class II Class II FE, Output Isolated from Earth contact Class I, Output negative directly attached to Earth contact Fest: < 0.1 Ohm between Earth Pin at AC input and PCB termination point (Class I models only) ion: 2 x MOPP ards: See listings at end of this drawing for specifics	文件发行来 2018.07.28 工程部
D) EMC EN 60601-1-2, 4 th ec Emissions, per EN 55 Conducted Emission Radiated Emissions	lition 5032, EN 61000-6-3, EN 61000-6-4 ns: Class B, FCC Part 15, Class B : Class B, FCC Part 15, Class B	

PROPRIETARY INFORMATION C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

Line Frequency Harmonics EN61000-3-2, Class A Voltage Fluctuations/Flicker EN61000-3-3

le E341351	MIS-07	
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, II Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N. 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS PSE PSE	Color/Style: GlobTek Black, Wall EC 60320/C6 w/ Wall Blades 2mm or Equal, Ferrite: Core Size: Amer,China, Japan, Approvals: CB S RoHS Ukraine VCCI WEEE PSE
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A	
Fax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B
Immunity, per EN 550 Static Discharge Imi Radiated RF Immun	124, EN 61000-6-1, EN 61000-6-2 nunity EN61000-4-2, 10kV Contact Discharge, 20kV air discharge ity EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM.	
EFT/Burst Immunity Line Surge Immunity Conducted RF Immu Power Frequency M Voltage Dip Immunit	EN61000-4-4, 4kV/100kHz. / EN61000-4-5, 2kV differential, 4kV common-mode unity EN61000-4-6, 3Vrms, 80% 1KHz AM agnetic Field Immunity EN61000-4-8, 3A/m y EN61000-4-11, Criteria	
 E) OTHER: 01. MTBF: 1,000,000 02. Operating Tempe GTM96600 mod -20°C to 50°C ar 03. Operating Humidi 04. Storage Tempera 05. Operating Altitude 06. Ingress Protection 07. ROHS: Complian 	Hours @ 40°C ambient temperature, Full Load rature: els: -20°C to 40°C ambient temperature at full load, nbient temperature with derating to 80% load ty: 0% to 95% relative humidity, non-condensing ture: -30°C to 80°C e: 5000 Meters n: IP40 standard, IP52 available as special option t with latest regulations, see approvals section below	
F) ENCLOSURE 01. Housing: High im 02. Markings: Label o 03. AC Input mechan Hybrid option (De	pact plastic, 94V0 polycarbonate, non-vented r Laser Printed ical options: Desktop C6, C8, C14 or C18 IEC Inlet. esktop or Changeable Blade Wall Plug-in) Class I or Class II input	
G) SPECIAL OPTION 01. Cost reduction, re 02. Custom Cordsets 03. Custom Markings 04. Short term Outpu 05. Reduced Leakage 06. Tightened output 07. Reduced output r 08. Reduced output p 09. High Rel PCB lan 10. Low Temperature 11. Special Housing 0	IS moval of LED , various cordage types, and connector types : Surge Capability e Current versions voltage tolerance pple level ower rating marking ninate with Plated through Holes for IPC610 Class 2 Compliance operation, down to -40°C Colors and Cordset Colors	文件发行来 2018.07.28 工程部

H) OUTPUT CONNECTORS

Several output connector options are available with various output current ratings. GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our 10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.

- 2.1mm PCB DC Power Jack ordering code: JACK-C-PC-10A-RA(R)
- 2.5mm PCB DC Power Jack ordering code: JACK-L-PC-10A-RA(R)



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSHIE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC. Page 8 of 19 QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE		
	Model No. GTM96600-6012-R3A		
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B	



GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option , Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE PSE PSE		
	Model No. GTM96600-6012-R3A		
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B	



GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE PSE		
	Model No. GTM96600-6012-R3A		
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B	
INPUT CONFIGUI	RATION		



Blades/Cord Included: R-NA-3: R-Series 5-15P N.Amer, China, Japan

Blades/Cord Installed: R-NA-3: R-Series 5-15P N.Amer,China, Japan

IEC 60320/C6 AC Inlet Connector, Class I, Earth Ground (aka "Mickey Mouse")

Blade Insertion Instructions R-Blade Style Instruction Video



Mates with IEC 60320/C5 Plug

This series of Interchangeable Blade products may be used with Proprietary Interchangeable Blades as described below or with standard international power cords.

Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

1. Class I model NEMA 5-15P, Class I AC power plug with 2 blades & ground pin, R-NA-3(R)

2. Australian AS 3112 configuration: SAA 3 pins Class I, R-SAA-3(R)

3. UK BS 1363 configuration: UK 3 pins (Ground) Class I, R-UK-3(R)

4. European CEE 7/16 configuration: Europlug 3 PINS, Class I, R-EU-3(R)

5. Desktop Insert Kits 05. R-3-KIT: 1,2,3,4 above 06. R-3-KIT-INTL: 2,3,4 above



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSHEE OR USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 11 of 19 WRITING BY GLOBTEK, INC.

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GI Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Ja 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine PSE PSE	obTek Black, Wall v/ Wall Blades , Ferrite: Core Size: apan, Approvals: CB e VCCI WEEE PSE
	Model No. GTM96600-6012-R3A	
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B



Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or package with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material. Standard International IEC 320/C Cordsets

<u>3021066F712(R)</u>	N. American	NEMA 5-15P	IEC 320/C5	1880	6
<u>1191068F0712(R)</u>	N. American	NEMA 5-15P Hospital	IEC 320/C5	2459	8
2064262M0712(R)	Australian	AS3112 / 3 PRONG	IEC 320/C5	2050	7
204B4262M0712(R)	Brazil	BRAZILIAN; WS-002	IEC 320/C5	2050	7
<u>6023592M5712(R)</u>	China	CCC GR2099	IEC 320/C5	2500	8
23144262M0712(R)	Europe	CEE 7/7	IEC 320/C5	2050	7
2084262M0712(R)	India/S.Africa	India/S.Africa	IEC 320/C5	2050	7
<u>23024262M0712(R)</u>	Italy	CEI 23-16/VII	IEC 320/C5	2050	7
<u>3003316F0712(R)</u>	Japan	JIS 8303 / 3 PINS	IEC 320/C5	1830	6
23214262M0712(R)	Switzerland	SEV 1011 (EL 203)	IEC 320/C5	2050	7
6104262M0712(R)	UK	BS1363	IEC 320/C5	2050	7

PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS PROVIDE ON WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 12 of 19 WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GI Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 v Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Ja 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine PSE PSE	obTek Black, Wall w/ Wall Blades , Ferrite: Core Size: apan, Approvals: CB e VCCI WEEE PSE
	Model No. GTM96600-6012-R3A	
	Part No./Ordering No. RR9LE5000A00141R6B	Rev B



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 13 of 19 WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE PSE	
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A	
rax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B
OUTPUT CORD A	ND CONNECTOR: A02A/C21657	



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 14 of 19 WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	lobTek, Inc. ww.globtek.com 36 Veterans Drive, orthvale, NJ 07647	Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 v Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-Smm; Tinned 9 +/- 2mm or Equal 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Ja 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine PSE PSE	v/ Wall Blades , Ferrite: Core Size: apan, Approvals: CB e VCCI WEEE PSE
Tel. (201) 704-1000		Model No. GTM96600-6012-R3A	
rax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B	

ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT <u>http://www.globtek.com/connectors/</u> STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT <u>http://www.globtek.com/connectors/</u>



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 15 of 19 WRITING BY GLOBTEK, INC.

QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784, 1000	Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 v Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Ja 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukrain PSE PSE	v/ Wall Blades I, Ferrite: Core Size: apan, Approvals: CB e VCCI WEEE PSE
	Model No. GTM96600-6012-R3A		
	Fax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B

LABEL:L-1186	
LABEL P/N: MATERIAL: BACKGROUND COLOR:	Standard GT Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case Black if housing is Black, White or Silver if housing is White or Gray.
TEXT COLOR:	White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is White or Gray
LABEL WIDTH (mm): LABEL HEIGHT (mm):	44.5 49.5

Below is the minimum information which will appear on the label. NOTE: in the logo area additional/actual positioning of symbols and text is subjected to change as per agency updates/requirements or additional model approvals become available. Regulatory certifications/label markings may be in logo area on the label or molded into the case housing outside the label area. Information will be shown via label and/or pad printed and/or molded and/or laser engraved in the case. * Date code markings at GlobTek option.

XXX = USÅ or CHINA A=ITE / Medical Power Supply/Class 2/Household Power Supply B=P/N: (料号) RR9LE5000A00141R6B C=Model (型号) GTM96600-6012-R3A D=Input (输入) 100-240V~, 50-60 Hz, 1.5 A E=Output (输出)12 V == 5 A, 60.0W AGENCY ONLINE DOCUMENTS <u>http://www.globtek.info/certs/GTM96600-TZ/</u> CE EC-Declaration for Medical <u>http://globtek.force.com/models/ec_declaration?id=a0Oa000000Mmj3wEAB</u> CE EC-Declaration for Industrial/Commercial/ITE <u>http://globtek.force.com/models/ec_declaration?id=a0Oa000000Mmj3wEAB</u> CE EC-Declaration for Industrial/Commercial/ITE <u>http://globtek.force.com/models/ec_declaration?id=a0Oa00000Mmj3wEAB</u>	GlobTek, [®] In www.globtek.com A B C D E Regulatory Certifications Label Markings (see below) MADE IN XXX XX制造	C. DATE CODE A *: DATE CODE LABEL UI IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	XXX = USA or CHINA A=ITE / Medical Power Supply/Class 2/Household B=P/N: (料号) RR9LE5000A00141R6B C=Model (型号) GTM96600-6012-R3A D=Input (输入) 100-240V~, 50-60 Hz, 1.5 A E=Output (输出)12 V == 5 A, 60.0W AGENCY ONLINE DOCUMENTS CE EC-Declaration for Medical CE EC-Declaration for Industrial/Commercial/ITE CE EC-Declaration for Household	i Power Supply

CPROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSHIPE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 16 of 19 WRITING BY GLOBTEK, INC.

QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northyale, NJ 07647	GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE	
Tel. (201) 784-1000		Model No. GTM96600-6012-R3A	
ri	rax (201) 764-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B

RoHS/RoHS3 Declaration REACH Declaration https://www.globtek.com/pdf/rohs_cert/01t0c000008PAdEAAW https://www.globtek.com/pdf/iso_certificates/REACH.pdf

(F2) Isolated Functional Earth for GTM96 series, Improved EMC

Conflict Minerals Declaration

https://www.globtek.com/pdf/conflict-minerals.pdf

IPXY rating is based on 3rd party testing and customers should check suitability and test system level IPXY rating before ordering.

Regulatory Certifications/Label Markings

LATEST PRODUCT/MODEL CERTIFICATIONS: http://en.globtek.com/datasheet/id/a0Oa00000Mmj3w

AGENCY ONLINE DOCUMENTS:

http://www.globtek.info/certs/GTM96600-TZ/

É

Red Lead (+), Black Lead (-)



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSHIRE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN PAGE 17 of 19 WITTING BY GLOBTEK, INC.

	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: Gi	lobTek Black, Wall	
GlobTek, Inc.	Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades		
www.globtek.com	Option , Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size:		
186 Veterans Drive	4.2°28.5°8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer, China, Japan, Approvals: CB		
Northvale, NI 07647	2309 Coc Tier 2 ETL South African ETL S-Mark CB ETL Class FRCM CCC CB S-Mark EAC ETL CE China ROHS Level VI LPS ROHS Ukraine VCCI WEEE PSE 17 Dec Dec		
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A		
Fax (201) 784-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B	

PACKAGING

Packing Spec P/N:	C-240000XX with R-NA-3(R) packing
Box Qty:	30
Gift Box Size (mm):	142*115*60
Gift Box Color:	White
Master Carton Size (mm):	442 x 330 x 275
Master Carton Cubic Volume (m ³):	0.04
Master GW (Kg):	15.2 kg
BLADES INCLUDED:	R-NA-3: R-Series 5-15P N.Amer,China, Japan
BLADE/CORD INSTALLED:	R-NA-3: R-Series 5-15P N.Amer,China, Japan

Specific packaging is required, "no exceptions".



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS DRAWING IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 18 of 19 WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647	Drawing Title: GTM96600-6012-R3A, ITE / Medical Power Supply/Class 2/Household Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C6 w/ Wall Blades Option, Output Rating: 60W, 12V@5A, Output Configuration: 1200 mm, 18/2 Cond, UL 2464, Stripped 30 +/-5mm; Tinned 9 +/- 2mm or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C21657, Pin Out: Red Lead (+), Black Lead (-), Blades/Input Cord: R-Series 5-15P N.Amer,China, Japan, Approvals: CB 230V CoC Tier 2 ETL South African ETL S-Mark CB ETL Class I RCM CCC CB S-Mark EAC ETL CE China RoHS Level VI LPS RoHS Ukraine VCCI WEEE PSE	
Tel. (201) 784-1000	Model No. GTM96600-6012-R3A	
rax (201) 764-0111	Part No./Ordering No. RR9LE5000A00141R6B	Rev B

INSTRUCTIONS TO THE OEM SYSTEMS ENGINEER

It is the responsibility of the OEM systems engineer to provide the end system user instructions and warnings for the use of this product in the end system.

If an input cord is required for this product, AC Mains voltage should be provided to the power supply by a power supply cord approved to the national standards of the country in which it will be used.

This power supply is not designed to be repaired. No serviceable parts inside. A blown internal fuse is an indication of catastrophic failure of circuit component(s). If a Failure Analysis is required for a failed power supply/battery charger, please return the damaged unit to Globtek for an accurate determination of the root cause of the failure.

EMC Compliance of the complete OEM product, including the GlobTek power supply/battery charger needs to be verified by the OEM systems engineer.

INSTRUCTION SHEET

N/A



PROPRIETARY INFORMATION

C PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION. DISCLOSURE OF USE OF THIS PROVIDE ON WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN Page 19 of 19 WRITING BY GLOBTEK, INC. QA /07/17/2018 2:48:55 PM CLONED FROM RR9LA6000SHY132(RVB)

