

GloTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-46600-6012-T2, ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GloTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 , Output Rating: 60W, 12.0V@5.0A, Output Configuration: 1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GloTek Black, GT Cord # C4805, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: 230V CoC Tier 2; Saudi; CB 60335; EAC; CB 60950; NrCAN (12V and 15V); Morocco; CB 62368; FCC; cULus; CE; CE; China RoHS; Double Insulation; Level VI; LPS 60950; PSE; RoHS; Ukraine; VCCI; WEEE; CCC; PSE; RCM; SGS (GS);	
	Model No. GT-46600-6012-T2	
	Part No./Ordering No. TR9KE5000CCP-N(R6B)	Rev F1

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
F1	Update approvals: CCC, add approvals: Morocco, EAC, NRCAN Nemko		05/13/2020	QA
F	Update ferrite core location to 50±10 from connector.		11/13/2017	QA
E1	Update Ukraine No.		11/02/2017	QA
E	Changing master carton size from 483*375*212mm to 520*370*205mm.		10/03/2016	QA
D	Update drawing for O/P cord		09/21/2016	QA
C	Change output connector drawing overmold dimensions.		09/15/2016	QA
B	Add critical DC connector overmold dimensions.		07/26/2016	QA
A	Initial Release		08/24/2015	QA

In Addition to GlobTek Inc.'s renewed ISO9001:2015 - Quality Management System Certification, GlobTek Inc. is now certified to:

ISO13485:2016 - Medical Devices Quality Management System Certification

ISO14001:2015 - Environmental Management System Certification

ISO Certificates are available online at <https://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 (<https://en.globtek.com/terms-and-conditions/>).

The purchaser of this product (Customer) agrees that it is their sole responsibility to determine suitability/fitness of the product described in this specification for their application and to take precautions for protection against any hazards attendant to the handling and use of the product.

### 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.

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## POWER SUPPLY INFORMATION

<b>TYPE:</b>	Desktop/External
<b>TECHNOLOGY:</b>	Regulated Switchmode AC-DC Power Supply AC Adaptor
<b>CASE COLOR:</b>	GlobTek Black
<b>NAMEPLATE RATED INPUT:</b>	100-240V~, 50-60 Hz, 1.5A
<b>INPUT CONFIG:</b>	IEC 60320/C8
<b>WATTS:</b>	60.0
<b>VOLTS OUT:</b>	12.0
<b>CURRENT OUT (Amps):</b>	5.0
<b>INGRESS PROTECTION:</b>	IPX0
<b>GROUNDING CONFIGURATION:</b>	(F1) Class II / Double Insulated
<b>EFFICIENCY LEVEL:</b>	
<b>OUTPUT CONFIGURATION:</b>	1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C4805
<b>OVERMOLDED:</b>	Yes
<b>CONNECTOR PIN OUT:</b>	Center Positive (+V)
<b>LABEL SPECS:</b>	Standard GT,L-1186
<b>SPECIAL BARCODE LABEL</b>	
<b>MATERIAL:</b>	
<b>PACK SPEC:</b>	
<b>USER MANUAL:</b>	

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	<p>Part No./Ordering No. TR9KE5000CCP-N(R6B) <span style="float: right;">Rev F1</span></p>

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec):  
DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

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## ELECTRICAL SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Input Rated Current: 1.5A RMS Max
04. Inrush Current: No damage at 240VAC Cold Start
05. Average Efficiency: 88% Min (CEC & DOE LEVEL VI Compliant); 89% Min (ErP Tier2 Compliant)
06. Input Power(no load): <0.21W (CEC &DOE Level VI Compliant); <0.15W (ErP Tier2 Compliant)
07. Line regulation:  $\pm 1\%$
08. Ripple Voltage: 200mV (p-p) (100-240V AC Input). Measuring is done by 20MHz bandwidth oscilloscope and terminated each output with a 10uf aluminum electrolytic capacitor and 0.1uf ceramic capacitor.

### B) PROTECTION

01. Over-Voltage: Electronically Protected Zener clamp across the output
02. Short Circuit: Electronically Protected unit will auto recover upon removal of fault
03. Over Temperature Protection: There shall be no ignition or smoke and deformation of case
04. 08. Over voltage protection: for 12V - 16V; for 15V - 20.25V, for 19V - 25.65, for 24V - 32.4V

### C) SAFETY

01. Dielectric Withstand Voltage: 4242Vdc from primary to secondary
02. Touch Current: <0.25mA @ 240Vac input voltage
03. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

### D) OTHER:

01. MTBF: 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Humidity: 10% to 90% relative humidity
04. Storage Temperature: -10°C to 70°C
05. Cooling: Convection
06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 121\*52\*33 +/-1.0 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT:

<https://en.globtek.com/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

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INGRESS PROTECTION: IPX0

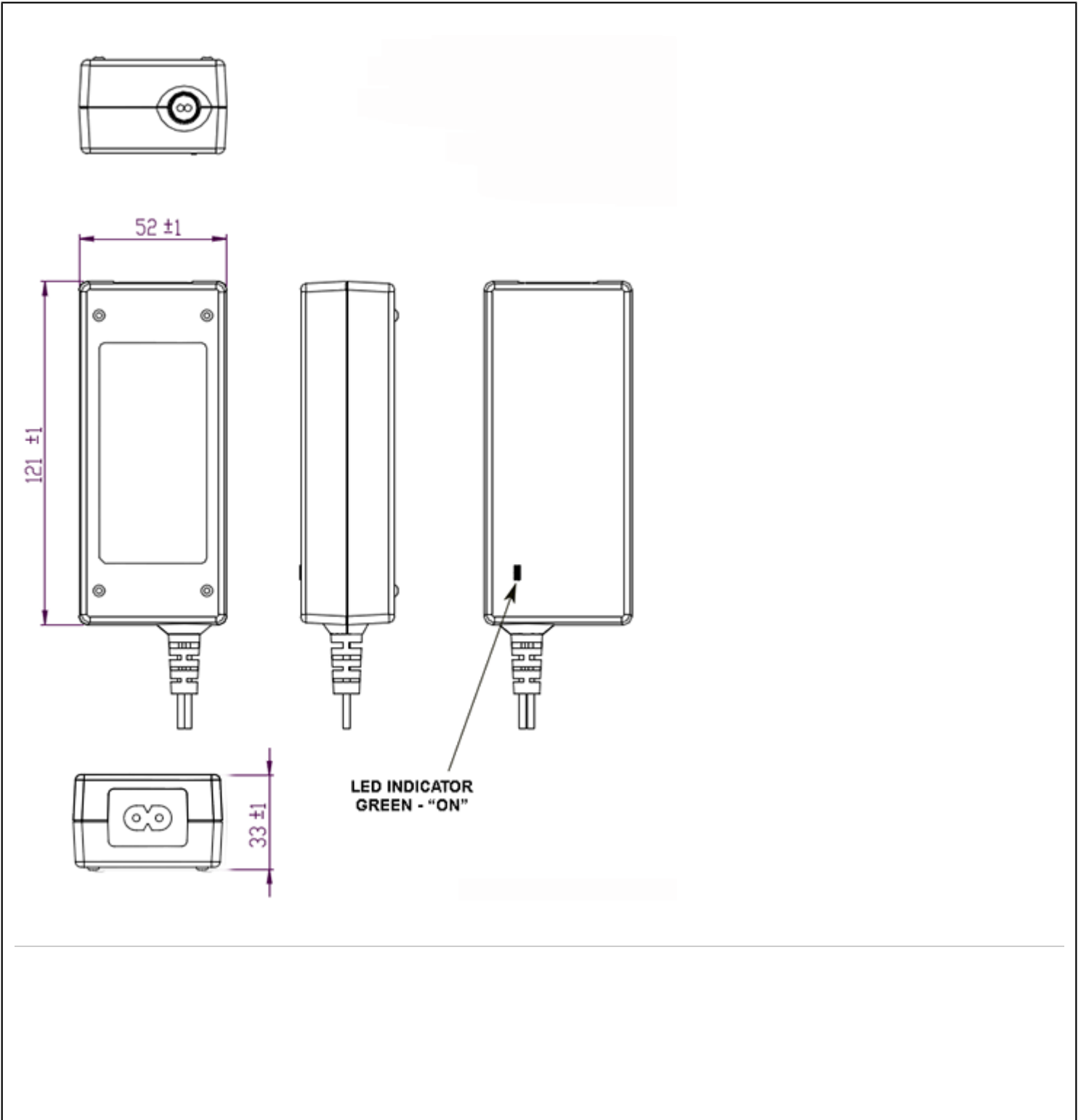
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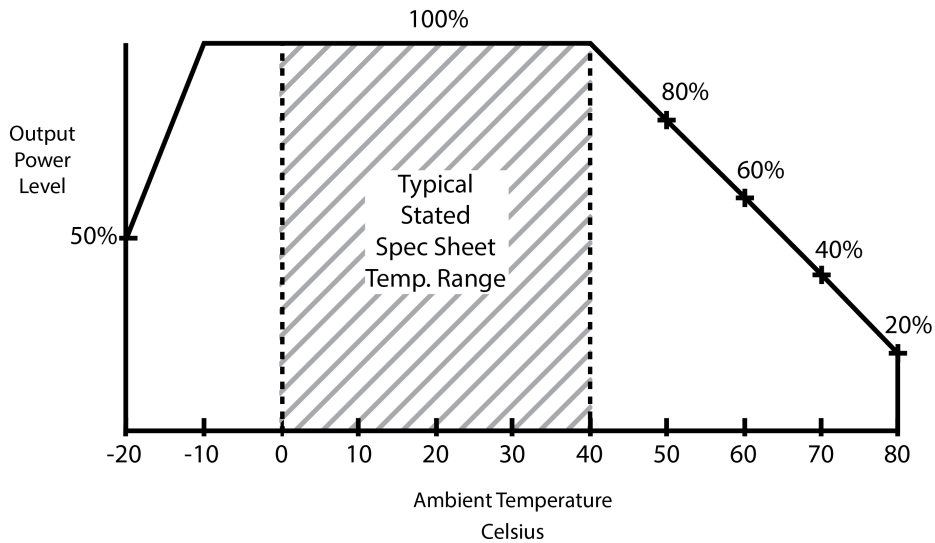
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DERATING CURVE

**Typical External  
Power Supply Derating Curve**

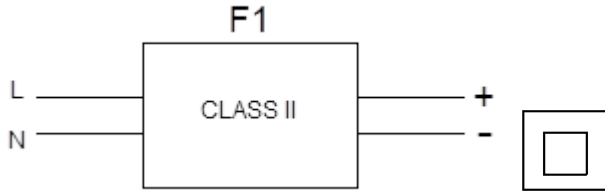
(For Efficiency Level V and Efficiency Level VI Products)



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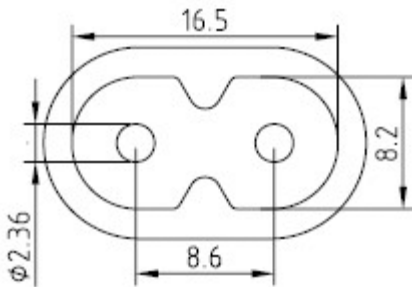
### INPUT CONFIGURATION

(F1) Class II / Double Insulated



[Alternate grounding configurations](#) available upon request.

IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8")



Mates with IEC 60320/C7 Plug

Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power supply. Please 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/C7 Cordsets](#)

<a href="#">2094112M703(R)</a>	Argentina (Type I)	IRAM 2063	IEC 320/C7 20007
<a href="#">5014112M703A(R)</a>	Australian (Type I)	AS 3112	IEC 320/C7 20007
<a href="#">207B4111M8703(R)</a>	Brazil (Type N)	NBR14136	IEC 320/C7 18006
<a href="#">4533501M8703(R)</a>	China (Type A)	GB 2099.1	IEC 320/C7 18306
<a href="#">2074112M703A(R)</a>	European (Type C)	CEE 7/16	IEC 320/C7 20007
			IEC

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<a href="#">2084111M8703(R)</a>	India (Type M)	BS 546	320/C7	18006
<a href="#">451J3401M8703(R)</a>	Japan (Type A)	JIS 8303	IEC 320/C7	18306
<a href="#">2044112M703A(R)</a>	Korea (Type C)	KS C8305	IEC 320/C7	20007
<a href="#">4511116F703A(R)</a>	N. American (Type A)	NEMA 1-15P	IEC 320/C7	18306
<a href="#">4033401M8703A(R)</a>	Taiwan (Type A)	CNS690	IEC 320/C7	18306
<a href="#">6104112M703A(R)</a>	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	20007

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**OUTPUT CORD AND CONNECTOR: CL1/C4805**

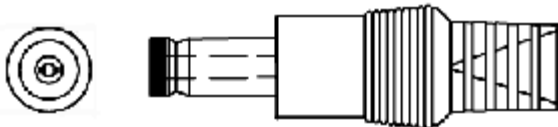
ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW

CABLE TYPE	UL 2468
CABLE LENGTH (mm)	1200
CABLE TOLERANCE (mm)	±100
WIRE GAUGE (AWG)	16
CONDUCTORS	2
HANK DIMENSION (mm)	95 +10 -10
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE / DIMENSION	Core Size: 14.2*28.5*8.2
FERRITE # OF TURNS <a href="#">(Definition)</a>	2 Pass thru core (1 turns)
FERRITE DIMENSION FROM STRAIN RELIEF	N/A
FERRITE DIMENSION FROM PLUG	50±10
PLUG TYPE	Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal
OUTPUT CONNECTOR GENDER	
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	Center Positive (+V)

**ADDITIONAL REQUIREMENTS**



Connector overmold dimensions are critical and may not be changed!



ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT <https://www.globtek.com/connectors/>  
STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT <https://www.globtek.com/connectors/>  
CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: <https://en.globtek.com/output-cable-regulation-calculator/>

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	Part No./Ordering No. TR9KE5000CCP-N(R6B)	Rev F1

## OUTPUT CONNECTOR HOOK UP

TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT:

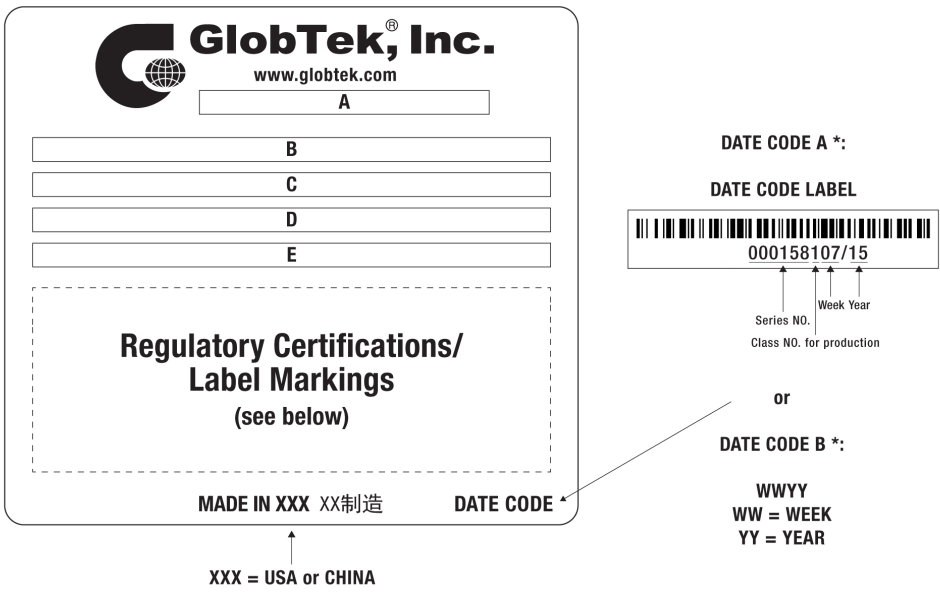
<https://en.globtek.com/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

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**LABEL:L-1186**

<b>LABEL P/N:</b>	Standard GT
<b>MATERIAL:</b>	Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case
<b>BACKGROUND COLOR:</b>	Black if housing is Black, White or Silver if housing is White or Gray.
<b>TEXT COLOR:</b>	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.
<b>LABEL WIDTH (mm):</b>	37.3
<b>LABEL HEIGHT (mm):</b>	77.3
<b>SPECIAL BARCODE LABEL MATERIAL:</b>	

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



- A=ITE Power Supply
- B=P/N: (料号) TR9KE5000CCP-N(R6B)
- C=Model (型号) GT-46600-6012-T2
- D=Input (输入)100-240V~, 50-60 Hz, 1.5A
- E=Output (输出)12.0 V --- 5.0 A, 60.0W

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AGENCY ONLINE DOCUMENTS	<a href="http://www.globtek.info/certs/GT-46600-60VV-X.X/">http://www.globtek.info/certs/GT-46600-60VV-X.X/</a>
CE EC-Declaration for Medical	<a href="#">Contact GlobTek for more information</a>
CE EC-Declaration for Industrial/Commercial/ITE	<a href="http://globtek.force.com/models/ec_declaration_product?id=01ta0000005dayl&amp;i=5">http://globtek.force.com/models/ec_declaration_product?id=01ta0000005dayl&amp;i=5</a>
CE EC-Declaration for Household	<a href="#">Contact GlobTek for more information</a>
UKCA-Declaration for Medical	<a href="#">Contact GlobTek for more information</a>
UKCA-Declaration for Industrial/Commercial/ITE	
UKCA-Declaration for Household	<a href="#">Contact GlobTek for more information</a>
Morocco SDoC Declaration	<a href="https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a00a000000MikA1EAJ">https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a00a000000MikA1EAJ</a>
RoHS/RoHS3 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/01ta0000005dayIAAQ">https://www.globtek.com/pdf/rohs_cert/01ta0000005dayIAAQ</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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/a00a000000MikA1>

AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GT-46600-60VV-X.X/>



(F1) Class II / Double Insulated



Center Positive (+V)

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## PACKAGING

Packing Spec P/N:

Box Qty:	30
Gift Box Size (mm):	EGG CRATE
Gift Box Color:	White
Master Carton Size (mm):	520 x 370 x 205
Master Carton Cubic Volume (m³):	0.04
Master GW (Kg):	15.6 kg
BLADES INCLUDED:	:
BLADE/CORD INSTALLED:	:
USER MANUAL*:	
USER MANUAL WEB LINK:	

\* This specification sheet is considered the user manual for all applications. It is expected that the buyer of this product will use it to formulate their own user manual for their end product and a user manual specifically for the power adapter is not usually required. If a user manual is not specifically listed above then none will be provided with this unit.

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## 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