

GloBtek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-46400-4024-T2, ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GloBtek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 , Output Rating: 40W, 24.0V@1.66A, Output Configuration: 1230 mm, 18/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm WITH internal Spring Clip and Locking Notch or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GloBtek Black, GT Cord # C6142, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: FCC; China RoHS; CE; CAN ICES-3; NOM; EAC; 230V CoC Tier 2; PSE; CB 60950; SGS (GS); cULus; WEEE; VCCI; Ukraine; RoHS; PSE; LPS; Level VI; IP40; Double Insulation;	
	Model No. GT-46400-4024-T2	
	Part No./Ordering No. TR9KI1670CCP-N(R6B)	Rev B

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
B	Change 1.67A to 1.66A Update Ukraine	rchiu	09/25/2017	QA
A	Initial release	dhock	08/25/2017	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

TYPE:	Desktop/External
TECHNOLOGY:	Regulated Switchmode AC-DC Power Supply AC Adaptor
CASE COLOR:	GlobTek Black
NAMEPLATE RATED INPUT:	100-240V~, 50-60 Hz, 1.0A
INPUT CONFIG:	IEC 60320/C8
WATTS:	40.0
VOLTS OUT:	24.0
CURRENT OUT (Amps):	1.66
INGRESS PROTECTION:	Indoor Use
GROUNDING CONFIGURATION:	(F1) Class II / Double Insulated
EFFICIENCY LEVEL:	
OUTPUT CONFIGURATION:	1230 mm, 18/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm WITH internal Spring Clip and Locking Notch or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C6142
OVERMOLDED:	Yes
CONNECTOR PIN OUT:	Center Positive (+V)
LABEL SPECS:	Standard GT,L-1186
SPECIAL BARCODE LABEL	
MATERIAL:	
PACK SPEC:	
USER MANUAL:	

### PROPRIETARY INFORMATION

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	<p>Model No. GT-46400-4024-T2</p>
	<p>Part No./Ordering No. TR9KI1670CCP-N(R6B) <span style="float: right;">Rev B</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. Inrush Current: NO Damage
04. Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
05. No Load Standby Power: <0.075W @ 230Vac
06. Load regulation:  $\pm 5\%$
07. Output Voltage: Tolerance  $\pm 5\%$
08. Ripple Voltage: 120mV (p-p): Input :(100V-240VAC ), Output:full load  
Ripple&Noise test: Use 20MHz band width frequency oscilloscope.Add 0.1uF/47uF Capacitor output connector terminal

### B) PROTECTION

01. Over voltage protection:  $\leq 16V$
02. Short circuit protection: Output shut down and auto- recover
03. Over Load Protection:  $\leq 5A$  output load

### C) SAFETY

01. HI-POT : Input to output : 3000VAC 10mA 1 minute (for Class II), 1500VAC 10mA 1 minute(for Class I)
02. Insulation resistance: Input to output: 500vdc to test the input to output resistance not be less 100M ohm
03. Touch Current: <0.25mA @ 240Vac input voltage

### D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Humidity Operating : 20% to 80%. 0% to 90% relative humidity
04. Storage Temperature: -10°C to 70°C  
Humidity Storage: 10% to 90%
05. RoHS 2: Complies with EU 2011/65/EU andChina SJ/T 11364-2014

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 111.0 x 52.0 x 32.3 +/-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>

INGRESS PROTECTION: Indoor Use

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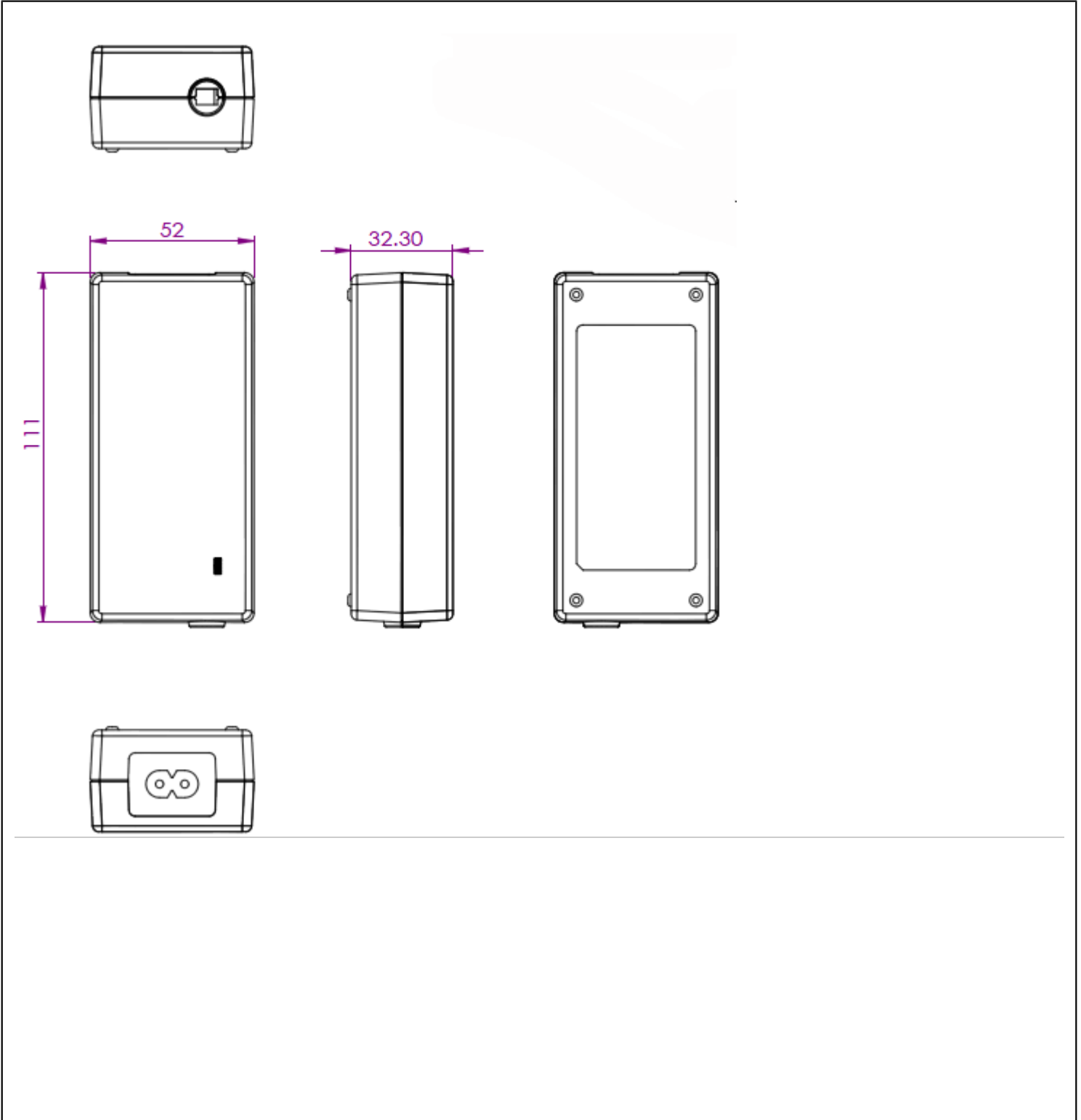
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Rev B



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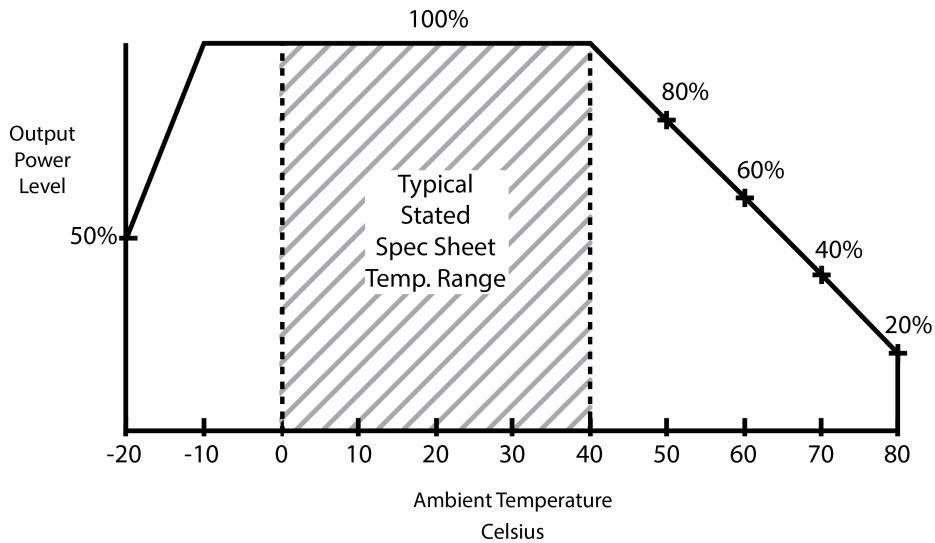
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DERATING CURVE

**Typical External  
Power Supply Derating Curve**

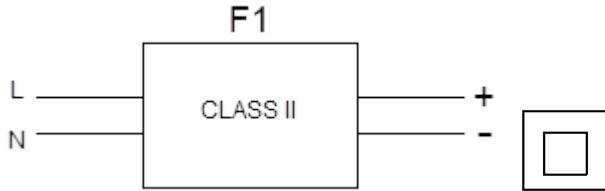
(For Efficiency Level V and Efficiency Level VI Products)



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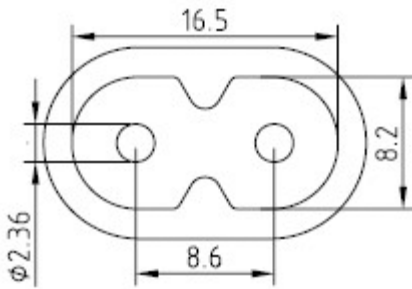
### INPUT CONFIGURATION

(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



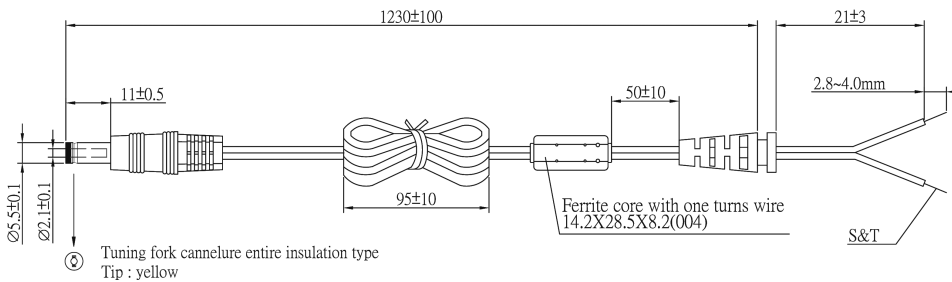
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**OUTPUT CORD AND CONNECTOR: C1S/C6142**

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

CABLE TYPE	UL 2468
CABLE LENGTH (mm)	1230
CABLE TOLERANCE (mm)	±100
WIRE GAUGE (AWG)	18
CONDUCTORS	2
HANK DIMENSION (mm)	95±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	50 +/-10
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Female Barrel 5.5*2.1*11mm WITH internal Spring Clip and Locking Notch or Equal
OUTPUT CONNECTOR SEX	
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	Center Positive (+V)

**ADDITIONAL REQUIREMENTS**



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/>

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**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

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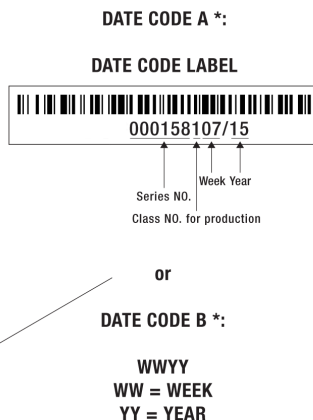
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<b>LABEL:L-1186</b>	
<b>LABEL P/N:</b>	Standard GT
<b>MATERIAL:</b>	Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case
<b>BACKGROUND COLOR:</b>	Black if housing is Black, White or 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>	37.5
<b>LABEL HEIGHT (mm):</b>	77.5
<b>SPECIAL BARCODE LABEL MATERIAL:</b>	

<b>GlobTek, Inc.</b> www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-46400-4024-T2, ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 , Output Rating: 40W, 24.0V@1.66A, Output Configuration: 1230 mm, 18/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm WITH internal Spring Clip and Locking Notch or Equal, Ferrite: Core Size: 14.2*28.5*8.2, GlobTek Black, GT Cord # C6142, Pin Out: Center Positive (+V), Blades/Input Cord: Not Applicable, Approvals: FCC; China RoHS; CE; CAN ICES-3; NOM; EAC; 230V CoC Tier 2; PSE; CB 60950; SGS (GS); cULus; WEEE; VCCI; Ukraine; RoHS; PSE; LPS; Level VI; IP40; Double Insulation;	
	Model No. GT-46400-4024-T2	
	Part No./Ordering No. TR9KI1670CCP-N(R6B)	Rev 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) TR9KI1670CCP-N(R6B)  
 C=Model (型号) GT-46400-4024-T2  
 D=Input (输入)100-240V~, 50-60 Hz, 1.0A  
 E=Output (输出)24.0 V 1.66 A, 40.0W

AGENCY ONLINE DOCUMENTS	<a href="http://www.globtek.info/certs/GT-46400-WWVV-X.X-TZ/">http://www.globtek.info/certs/GT-46400-WWVV-X.X-TZ/</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=01ta0000006FhAS&amp;i=5">http://globtek.force.com/models/ec_declaration_product?id=01ta0000006FhAS&amp;i=5</a>
CE EC-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=a0Oa000000Mih2SEAR">https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a0Oa000000Mih2SEAR</a>
RoHS/RoHS3 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/01ta0000006FhASAA0">https://www.globtek.com/pdf/rohs_cert/01ta0000006FhASAA0</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.

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	Model No. GT-46400-4024-T2	
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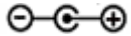
## Regulatory Certifications/Label Markings

LATEST PRODUCT/MODEL CERTIFICATIONS: <http://en.globtek.com/datasheet/id/a00a00000Mih2S>

AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GT-46400-WVVV-X.X-TZ/>



(F1) Class II / Double Insulated



Center Positive (+V)

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## PACKAGING

Packing Spec P/N:

Box Qty:	54
Gift Box Size (mm):	167*58*60
Gift Box Color:	White
Master Carton Size (mm):	520 x 370 x 205
Master Carton Cubic Volume (m³):	0.04
Master GW (Kg):	16.0 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