

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM46402-4024, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, Interchangeable Blades <a href="http://en.globtek.com/interchangeable-blades.php">http://en.globtek.com/interchangeable-blades.php</a> , Output Rating: 40W, 24V@1.66A, Output Configuration: 1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: None, GlobTek Black, GT Cord # C17743, Pin Out: Center Positive (+V), Blades/Input Cord: Q-Series N. American, Approvals: CB CB cETLus 60950 CB cETLus UL1310 UL SELV CB CE Ukraine VCCI RoHS Level VI FCC CAN ICES-3 IP52 Double Insulation WEEE	
	Model No. GTM46402-4024	
	Part No./Ordering No. WR9QI1660CCPN-NAR6B	Rev A

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
A	Initial release	rchiu	12/29/2017	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 (<http://en.globtek.com/terms-and-conditions/>).

### 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 8:55 am, Jan 03, 2018*

GTM46402-4024, 40W, 24V@1.66A, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor

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## POWER SUPPLY INFORMATION

TYPE:	Wall Plug-in
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:	Interchangeable Blades
WATTS:	40.0
VOLTS OUT:	24
CURRENT OUT (Amps):	1.66
BLADE/CORD INCLUDED:	Q-NA(R): Q-Series N. American
BLADE/CORD INSTALLED:	Q-NA(R): Q-Series N. American
GROUNDING CONFIGURATION	Class II / Double Insulated
EFFICIENCY LEVEL:	VI
OUTPUT CONFIGURATION	1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: None, GlobTek Black, GT Cord # C17743
CONNECTOR PIN OUT:	Center Positive (+V)
LABEL SPECS:	Standard GT,L-1186
PACK SPEC:	Standard WPI Q-NA installed, Individually Box

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

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

### PROPRIETARY INFORMATION

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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: 115Vac,(Cold Start) No damage, 230Vac,(Cold Start) No damage
04. Input Rated current: 1.0A RMS Max
05. Efficiency: 87.59% Min (CEC & DOE LEVEL VI Compliant), 88.30% Min (ErP Tier2 Compliant)
06. Input power(no load): <0.1W (CEC & DOE LEVEL VI Compliant), <0.075W (ErP Tier2 Compliant)
07. Load regulation:  $\pm 5\%$
07. Output Voltage: Tolerance  $\pm 5\%$
09. Leakage current: <0.25mA
10. Ripple Voltage: +/-1% or 150 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector at nominal line.

### B) PROTECTION

01. Over voltage protected.
02. Short circuit protection: Output shut down and auto recover
03. Over Load Protected: Output auto recover

### C) SAFETY

01. HI-POT : Input to output : 4000VAC or 5656VDC 10mA 1 minute
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

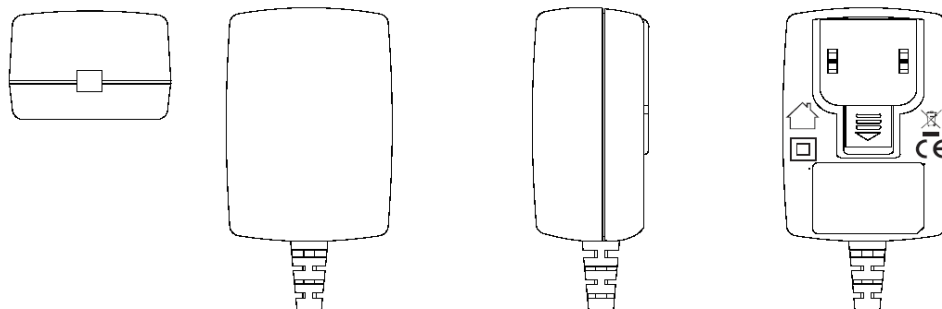
### D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Optional version with -40°C to 40°C operating temperature is available (RFP3927)
04. Humidity Operating : 15% to 95% RH
05. Elevation up to 4000 m
06. Storage Temperature: -10°C to 70°C  
Humidity Storage: 5% to 95% RH
07. RoHS 2: Complies with EU 2011/65/EU and China GB/T26572-2011

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 43.5 x 74.0 x 35.3
03. Markings: Label and/or Pad Printed and/or Molded in the case

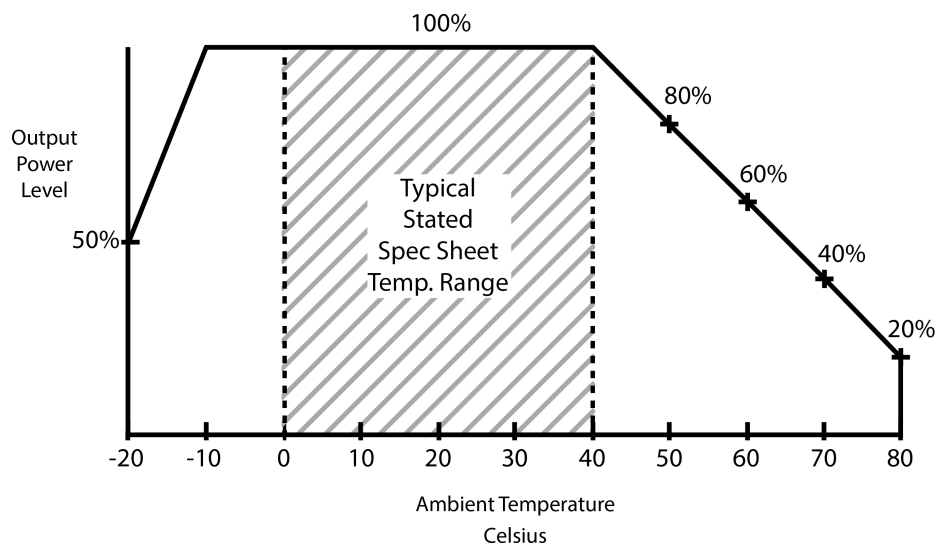
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DERATING CURVE

**Typical External Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



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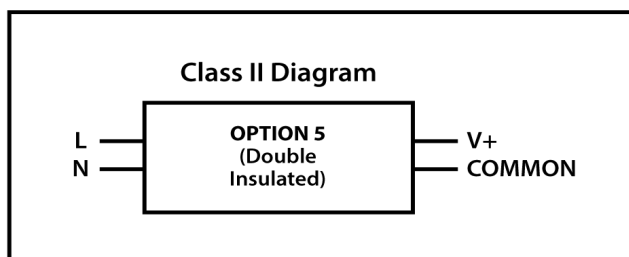
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Rev A

## INPUT CONFIGURATION



Grounding Configuration:

Blades/Cord Included: Q-NA(R): Q-Series N. American

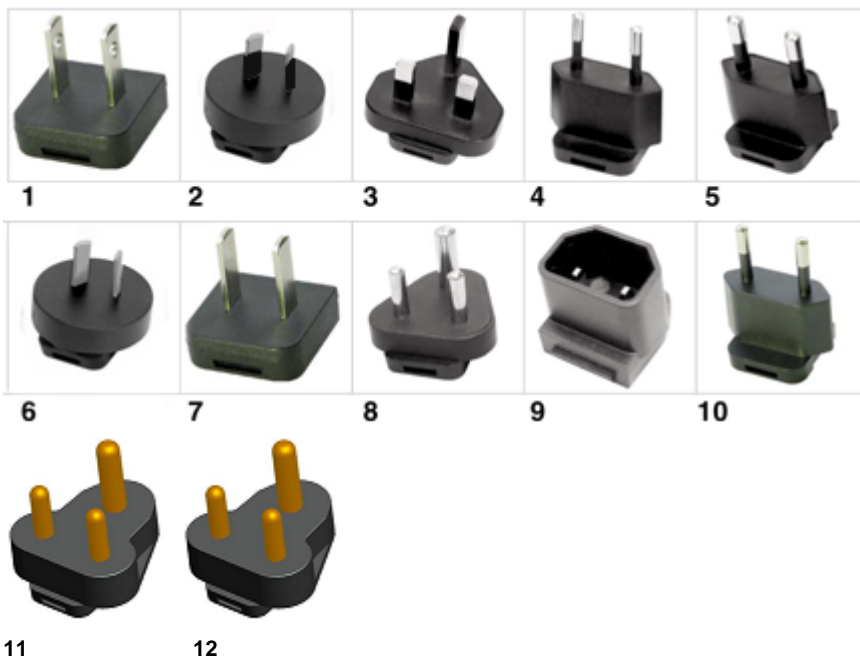
Blades/Cord Installed: Q-NA(R): Q-Series N. American

Blade Options for Q Series Wall Plug-in Power Supplies

Data Sheet: <http://en.globtek.com/interchangeable-blades.php>

Insertion Instructions: <http://www.globtek.com/pdf/Instructions-Interchangeable-Blades.pdf>

Video: [Q-Blade Style Instruction Video](#)



INPUT CONNECTOR: Q-Socket (below are available blades configurations which are "not included" (unless stated above); can be purchased separately, package with power supply or as a separate "Q-KIT" if specified

01. United States / Canada / Japan NEMA 1-15P configuration: NA 2 blades, Class II; US/CA/JP P/N: Q-NA(R)

02. Australian AS 3112 configuration: SAA 2 blade, Class II; AU P/N: Q-SAA(R)

03. UK BS 1363 configuration: UK 3 blade with dummy Ground, Class II; GB P/N: Q-UK(R)

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04. European CEE 7/16 configuration: Europlug 2 pins, Class II; EU P/N: Q-EU(R)
05. Korean KS C8305 configuration: 2 pins, Class II; KR P/N: Q-KR(R)
06. Argentina IRAM 2073 configuration: 2 blades; AR P/N: Class II Q-AR(R)
07. China GB 2099 configuration: 2 blades, Class II; CN P/N:Q-CN(R)
08. India IS 1293 6A/ South Africa SANS 164-3/BS546 configuration: 5A, 3 pins with Dummy Ground, Class II; IN P/N: Q-IN(R)
09. IEC320/C18 Inlet, Class II; P/N: Q-C18(R)
10. Brazilian NBR6147 configuration: 2 pins, Class II; BR P/N: Q-BR(R)

#### Kits

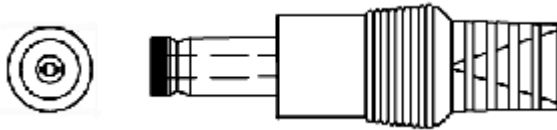
01. Q-KIT: 1,2,3,4 above
02. Q-KIT-INTL: 2,3,4 above
03. Q-KIT-6: 1,2,3,4,5,6 above
04. Q-KIT-7: 1,2,3,4,5,6,7 above
05. Q-KIT-8: 1,2,3,4,5,6,7,8 above

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**OUTPUT CORD AND CONNECTOR: CL1/C17743**

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

CABLE TYPE	UL 2468
CABLE LENGTH (mm)	1200
CABLE TOLERANCE (mm)	+100-0
WIRE GAUGE (AWG)	16
CONDUCTORS	2
HANK DIMENSION (mm)	80 ± 10
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE / DIMENSION	None
FERRITE # OF TURNS ( <a href="#">Definition</a> )	N/A
FERRITE DIMENSION FROM STRAIN RELIEF	N/A
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	Center Positive (+V)
ADDITIONAL REQUIREMENTS	



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

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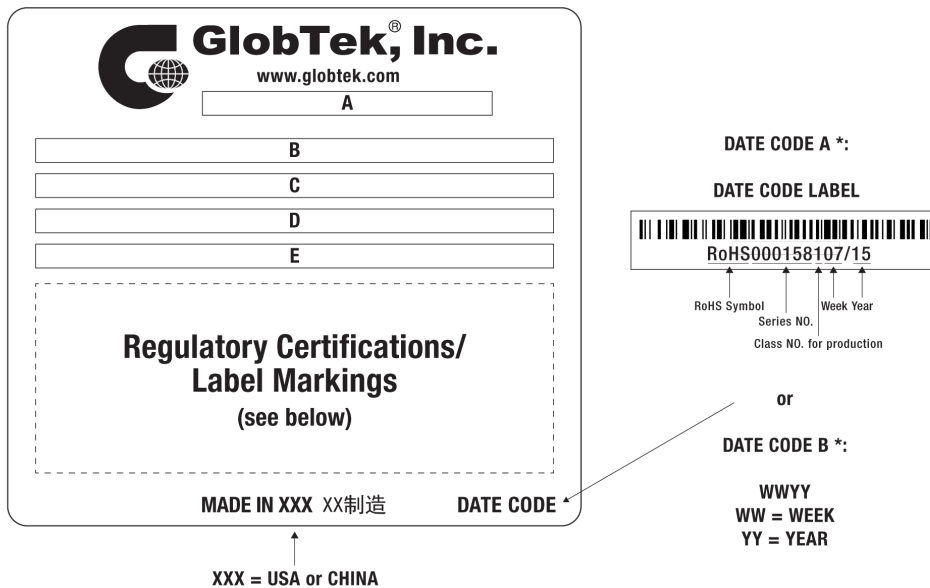
## LABEL:L-1186


LABEL P/N: Standard GT  
 MATERIAL: Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case  
 BACKGROUND COLOR: 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): 30  
 LABEL HEIGHT (mm): 21

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 / Medical Power Supply  
 B=P/N: (料号) WR9QI1660CCPN-NAR6B  
 C=Model (型号) GTM46402-4024  
 D=Input (输入) 100-240V~, 50-60 Hz, 1.0A  
 E=Output (输出) 24 V  1.66 A, 40.0W

## AGENCY ONLINE DOCUMENTS

CE EC-Declaration for Medical

<http://www.globtek.info/certs/GTM46402/>

CE EC-Declaration for Industrial/Commercial/ITE

[http://www.globtek.com/pdf/ec\\_declaration/a0Oa000000FivPcEAJ](http://www.globtek.com/pdf/ec_declaration/a0Oa000000FivPcEAJ)

RoHS/RoHS2 Declaration

[http://www.globtek.com/pdf/rohs\\_cert/01t0c000008kpl3AAA](http://www.globtek.com/pdf/rohs_cert/01t0c000008kpl3AAA)

REACH Declaration

[http://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](http://www.globtek.com/pdf/iso_certificates/REACH.pdf)

Conflict Minerals Declaration

<http://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.

## PROPRIETARY INFORMATION







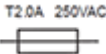

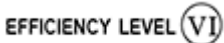
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## Regulatory Certifications/Label Markings

Logo	Description
	Book 60335 up to 36 Volts
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition
No Logo Applicable	IEC 60335-1:2010+A1+A2
No Logo Applicable	CB report to IEC 60950-1:2005 (2nd Edition) +A1:2009 + A2:2013
No Logo Applicable	IEC 62368-1:2014 (Second Edition)
	CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	cETLus-Cert 4007497 UL1310 Recognized Component up to 48 volts
	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27 Ed: 2 Rev: 2014/10/14)
	Information Technology Equipment Safety Part 1: General Requirements (CSA C22.2 No. 60950-1 Issued:2007/03/27 Ed: 2 (R2012) Amd. 1
	Double Insulation - Mark is on the label or Molded in the case
	Compliance of this power supply with FCC Part 15, Class B has been demonstrated with a standard output load. The FCC law stipulates that system-level testing is required to demonstrate compliance with the FCC emission limits with the actual system load.
CAN ICES-3(B)/NMB-3(B)	Fuse 60335 T2.0A 250VAC Up to 36 volts
	Compliance of this PSU with Industry Canada, Class B demonstrated with a standard output load. The ICES law stipulates that system-level testing is required to demonstrate compliance with the ICES-3 emission limits with the actual system load.
IP52	Indoor Use Only - Mark is on the label or Molded in the case
	Ingress Protection: IP52 to IEC60529:2001 Protected against dust - limited ingress (no harmful deposit) and Protected against direct sprays up to 15 degrees from the vertical (with R-Blades)
RoHS	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
SELV	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
	safety/separated extra-low voltage IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006

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**DO NOT REMOVE THE TAG**  
**WARNING/ADVERTISEMENT**  
**RISK OF ELECTRIC SHOCK**  
**DRY LOCATION USE ONLY**  
**FOR INDOOR USE ONLY**  
 Risque de choc électrique  
 Utilisation endroit sec  
 Pour une utilisation en intérieur  
 See instructions if the input  
 plug does not fit the power outlet


 Ukraine UKRSepro (Document: [www.globtek.com/html/iso\\_certificates/GT\\_Ukraine.pdf](http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf))

UL1310 Warning Label Up To 48 Volts with plugs

Japan: Voluntary Control Council for Interference (VCCI)

 WEEE: Complies with EU 2012/19/EU (  
[http://ec.europa.eu/environment/waste/weee/index\\_en.htm](http://ec.europa.eu/environment/waste/weee/index_en.htm))

Mark is on the label or Molded in the case



Center Positive (+V)

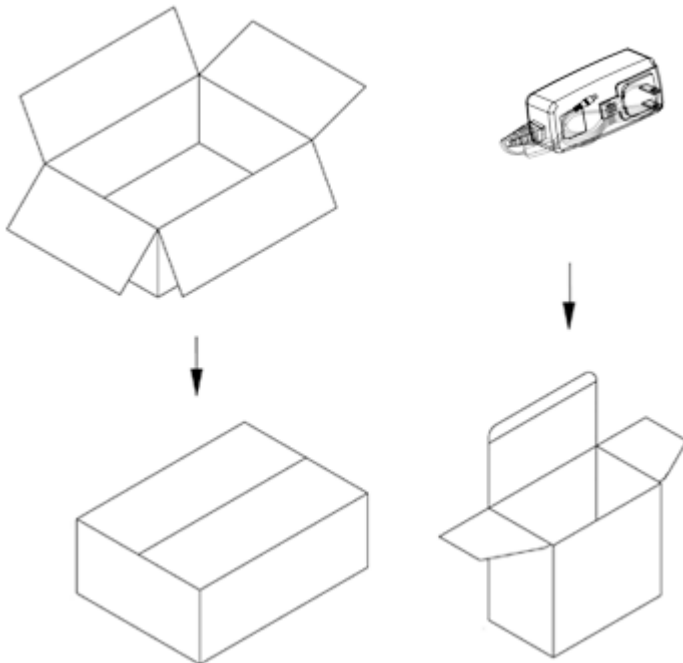
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM46402-4024, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, Interchangeable Blades <a href="http://en.globtek.com/interchangeable-blades.php">http://en.globtek.com/interchangeable-blades.php</a> , Output Rating: 40W, 24V@1.66A, Output Configuration: 1200 mm, 16/2 Cond, UL 2468, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: None, GlobTek Black, GT Cord # C17743, Pin Out: Center Positive (+V), Blades/Input Cord: Q-Series N. American, Approvals: CB CB cETLus 60950 CB cETLus UL1310 UL SELV CB CE Ukraine VCCI RoHS Level VI FCC CAN ICES-3 IP52 Double Insulation WEEE	
	Model No. GTM46402-4024	
	Part No./Ordering No. WR9QI1660CCPN-NAR6B	Rev A

## PACKAGING

Packing Spec P/N:	Standard WPI Q-NA installed, Individually Box
Box Qty:	60
Gift Box Size (mm):	115*75*90
Gift Box Color:	White
Master Carton Size (mm):	478 x 393 x 295
Master Carton Cubic Volume (m³):	0.06
Master GW (Kg):	15.2 kg
BLADES INCLUDED:	Q-NA(R): Q-Series N. American
BLADE/CORD INSTALLED:	Q-NA(R): Q-Series N. American

Power Supply & Blade(s) packaged together; see **above "Blades Included"** for actual blades included in the gift box.

If specific packaging is required, this section must specify all requirements and note "no exceptions". If this section does not specify packaging, it is subject to change without notice at GlobTek's discretion



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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

Q Blades Instruction Sheet (not required to be packaged with product)

Insertion Instructions: <http://www.globtek.com/pdf/Instructions-Interchangeable-Blades.pdf>

This manual is Provided to customer within the product specification - it is the responsibility of

the OEM/customer to provide the end system user instructions + warnings for the use of this product in the end system. By accepting this specification the customer/OEM Agrees to these terms.

## USER MANUAL FOR Q-BLADE SERIES SWITCHING POWER SUPPLIES

Manual del Usuario. Fuentes de Alimentación Series Q-Blade

**WARNING! RISK OF FIRE! SHOCK HAZARD!:** To prevent electric shock, do not remove the cover. No user-serviceable parts inside. This unit contains hazardous voltages and should only be opened by a trained and qualified technician. Do not use if bent, cracked, modified or compromised. To avoid the possibility of electric shock, disconnect electric power to the product before connecting or disconnecting.

**Advertencia! Riesgo de Fuego! Peligro de Choque eléctrico!**

No contiene dentro componentes servibles para el usuario. Desconecte el cable de alimentación antes de quitar la cubierta.

## INDOOR USE ONLY!

Únicamente para uso en el interior.

**POWER SUPPLY BLADE/CORD:** AC Mains voltage should be provided to the power supply by a power supply cords approved to

the national standards in which it will be used. Please use the below table as a guideline for Suitable Power cords.

**CABLE DE ALIMENTACIÓN:** El voltaje de la CA debe proporcionarse a la fuente de alimentación mediante

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los cables de alimentación aprobados conforme a las normas nacionales según las cuales será utilizada. Utilice por favor la tabla mencionada aquí abajo como guía para los cables eléctricos adecuados.

1. Class II model NEMA 1-15P AC power plug with 2 prongs, Q-NA(R)
2. Australian AS 3112 configuration: SAA 2 pins Class II, Q-SAA(R)
3. UK BS 1363 configuration: UK 2 pins Class II, Q-UKY(R)
4. European CEE 7/16 configuration: Europlug 2 PINS, Class II, Q-EU(R)
5. Korean KS C8305 configuration: Q-KR(R)
6. Argentina IRAM 2073 configuration: 2 pins, Class II Q-AR(R)
7. China GR 2099 configuration: 2 pins, Class II Q-CN(R)
8. India configuration: 2 pins, Class II, Q-IN(R)
9. IEC320/C18 Inlet

**FUSING:** Internal fuse for Line is provided in the power supply. A blown internal fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by GlobTek, Inc. authorized personnel. Fuses must be replaced with same type and ratings per GlobTek internal documentation.

**FUSIBLES:** La fuente de alimentación provee un fusible interno para la línea. Un fusible interno quemado es un indicador de una falla catastrófica de los componentes del circuito. La reparación debe ser hecha por personal autorizado de GlobTek, Inc. Los fusibles se deben reemplazar por los mismos tipos y rangos que la documentación interna de GlobTek mencione.

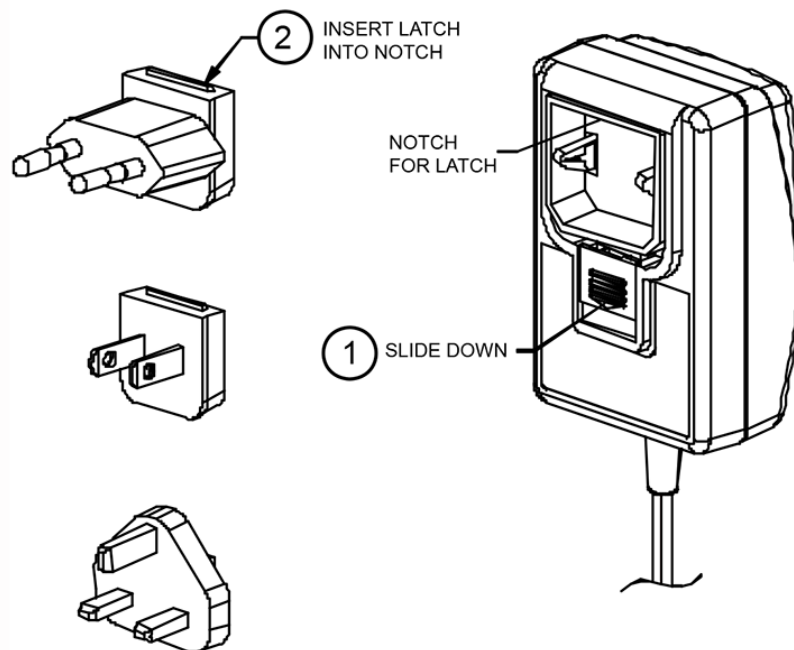
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This symbol on an instrument indicates that the user should refer to the operating instructions located in the manual.