

GlobTek, Inc.  
 www.globtek.com  
 186 Veterans Drive,  
 Northvale, NJ 07647  
 Tel. (201) 784-1000  
 Fax (201) 784-0111

Drawing Title: GT-46060-0612, ITE 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 <http://en.globtek.com/interchangeable-blades.php>, Output Rating: 6W, 12V@0.5A, Output Configuration: 1230 mm, 18/1C + Shield Cond, UL 1185, Female Barrel 5.5\*2.1\*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: None, GlobTek Black, GT Cord # C2916, Pin Out: Center Positive (+V), Blades/Input Cord: (Order Separately), Approvals: 230V CoC Tier 2 EAC BIS FCC SGS (GS) CE CE China RoHS Double Insulation IP40 Level VI LPS PSE RoHS Ukraine VCCI WEEE cULus CB CCC RCM PSE PSE PSE CAN ICES-3 Korea(12V Only)

Model No. GT-46060-0612

Part No./Ordering No. WR9QE500CCP-N(R6B)

Rev A

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
A	Initial Release	jwarn	05/02/2017	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 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.

GT-46060-0612, 6W, 12V@0.5A, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor

PROPRIETARY INFORMATION

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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, 0.3 A  
INPUT CONFIG: Interchangeable Blades  
WATTS: 6.0  
VOLTS OUT: 12  
CURRENT OUT (Amps): 0.5  
BLADE/CORD INCLUDED: None:  
BLADE/CORD INSTALLED: None:  
GROUNDING CONFIGURATION (F1) Class II / Double Insulated  
EFFICIENCY LEVEL: VI  
OUTPUT CONFIGURATION 1230 mm, 18/1C + Shield Cond, UL 1185, Female Barrel 5.5\*2.1\*11mm w/ Spring Clip & Locking Notch or Equal,  
CONNECTOR PIN OUT: Center Positive (+V)  
LABEL SPECS: Standard GT,L-1186  
PACK SPEC: Standard WPI, Individually Box

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. On power when switching on/off repeatedly under any condition.
04. Average Efficiency: 75% Min. (CEC & DOE LEVEL VI Compliant), 75.1% Min. (ErP **European** Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant)
05. Input power(no load): < 0.1W (CEC & DOE LEVEL VI Compliant), <0.075W (ErP **European** Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant)
07. Output Voltage tolerance:  $\pm 5\%$
08. Line regulation:  $\pm 3\%$
09. Ripple Voltage: 150mV (p-p): Input :(100V-240VAC ), Output:full load
10. Output Ripple (Vp-p): +/-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 protection: Output shut down and auto restart
02. Short circuit protection: Output shut down and auto restart
03. Insulation resistance: Input to output: 500Vdc to test the input to output resistance not be less 100M Ohm

### C) SAFETY

01. HI-POT : Input to output : 3000VAC or 4242VDC 10mA 1 minute
02. 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 and China SJ/T 11364-2014

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 40.5 x 64.0 x 30.0 +/-1.0 mm
03. Weight : 68.5 g
04. Markings: Label and/or Pad Printed and/or Molded in the case

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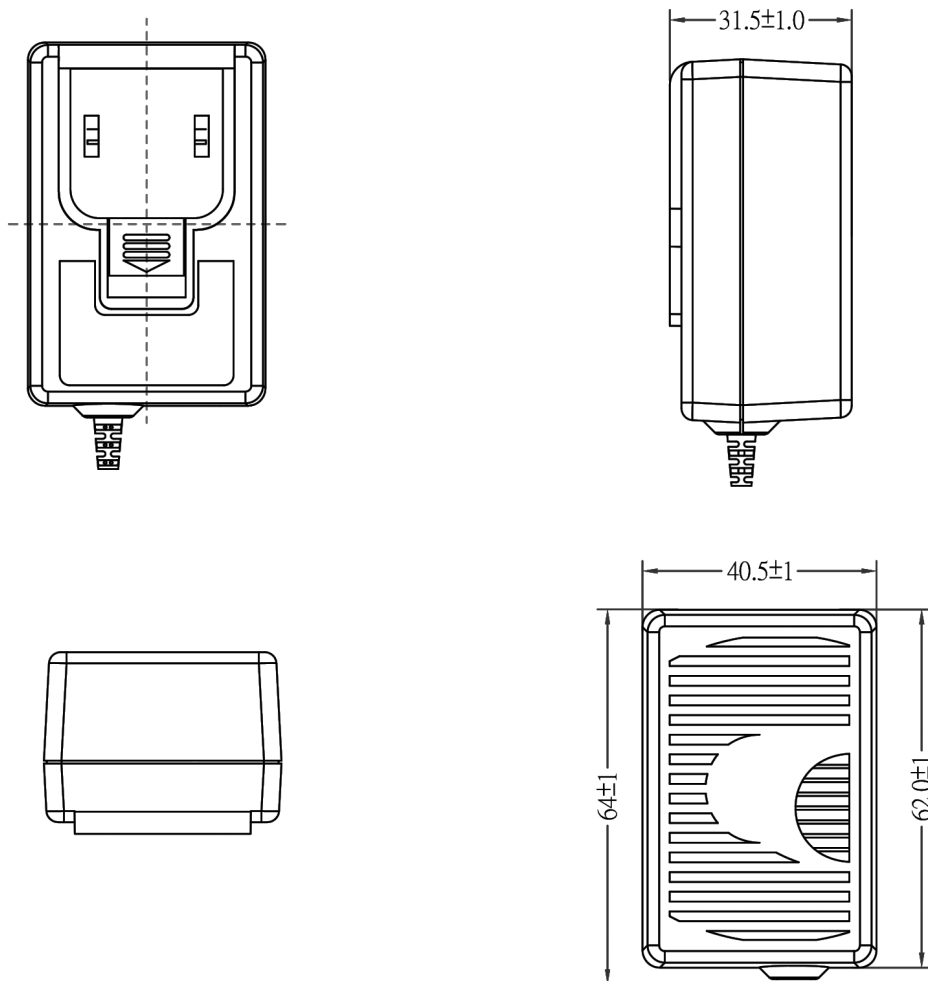
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DERATING CURVE

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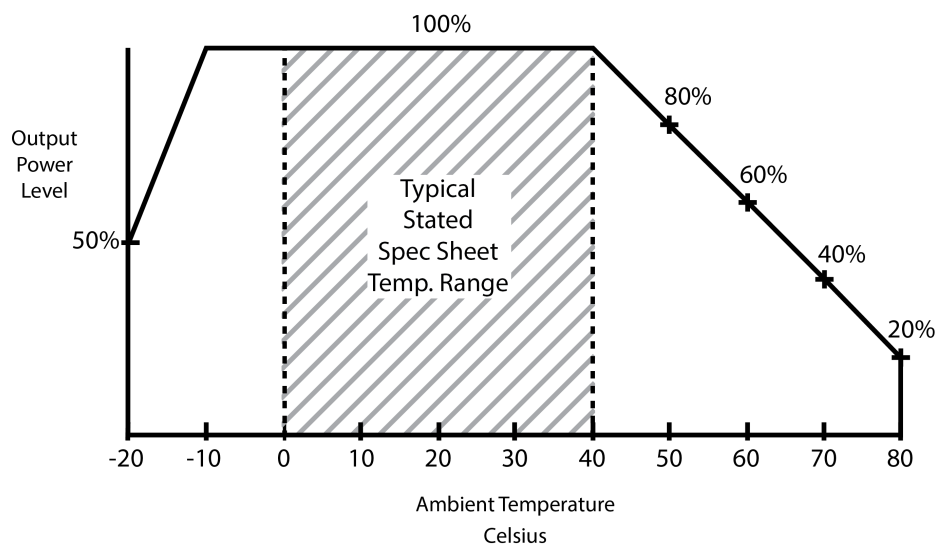
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### Typical External Power Supply Derating Curve

(For Efficiency Level V and Efficiency Level VI Products)



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## INPUT CONFIGURATION

Grounding Configuration:

Blades/Cord Included: None:

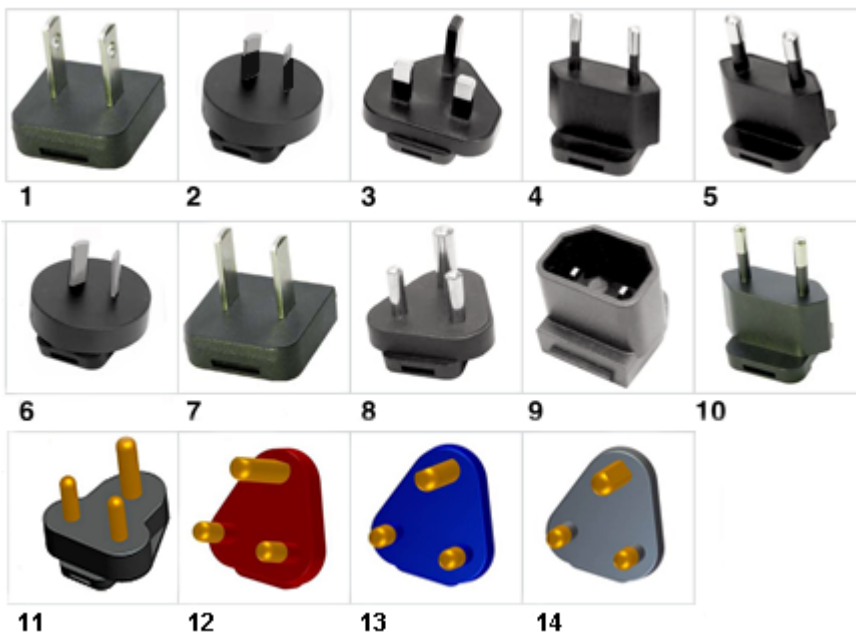
Blades/Cord Installed: None:

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)
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/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)
11. South Africa SABS164-1, 3 round prongs, Class II + dummy ground, P/N: Q-SANS164-1-16A(R)
12. South Africa SABS164-4, 3 round prongs with a notched prong @ 0°, Class II + dummy ground, Red, P/N: Q-SANS164-4L-16A(R)
13. South Africa SABS164-4, 3 round prongs with a notched prong @ -53°, Class II + dummy ground, Blue, P/N:

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Q-SANS164-4C-16A(R)

14. South Africa SABS164-4, 3 round prongs with a notched prong @ +53°, Class II + dummy ground, Black, P/N:

Q-SANS164-4R-16A(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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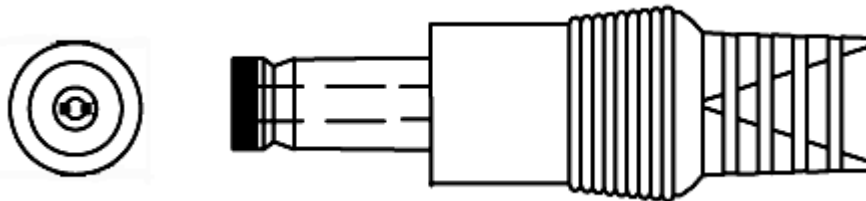
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Rev A

**OUTPUT CORD AND CONNECTOR: CL1/C2916**

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

CABLE TYPE	UL 1185
CABLE LENGTH (mm)	1230
CABLE TOLERANCE (mm)	+150 -0
WIRE GAUGE (AWG)	18
CONDUCTORS	1C + Shield
HANK DIMENSION (mm)	70 ±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): 33.6  
 LABEL HEIGHT (mm): 25.1

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 = USA or CHINA

**DATE CODE A \*:**

**DATE CODE LABEL**



↑ ↑ ↑  
 Series NO. Week Year  
 Class NO. for production

or

**DATE CODE B \*:**

WWYY  
 WW = WEEK  
 YY = YEAR

A=ITE Power Supply  
 B=P/N: (料号) WR9QE500CCP-N(R6B)  
 C=Model (型号) GT-46060-0612  
 D=Input (输入) 100-240V~, 50-60 Hz, 0.3 A  
 E=Output (输出) 12 V 0.5 A ,6.0W

- AGENCY ONLINE DOCUMENTS <http://www.globtek.info/certs/GT-46060-06VV-X.X/>
- CE EC-Declaration for Medical [Contact GlobTek for more information](#)
- CE EC-Declaration for Industrial/Commercial/ITE [http://www.globtek.com/pdf/ec\\_declaration/a00a000000MF1MaEAL](http://www.globtek.com/pdf/ec_declaration/a00a000000MF1MaEAL)
- RoHS/RoHS2 Declaration [http://www.globtek.com/pdf/rohs\\_cert/01ta0000007dRIaAAM](http://www.globtek.com/pdf/rohs_cert/01ta0000007dRIaAAM)
- REACH Declaration [http://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](http://www.globtek.com/pdf/iso_certificates/REACH.pdf)

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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.

## Regulatory Certifications/Label Markings

LATEST PRODUCT/MODEL CERTIFICATIONS: <http://en.globtek.com/datasheet/id/a0Oa000000MF1Ma>

AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GT-46060-06VV-X.X/>



Center Positive (+V)

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## PACKAGING

Packing Spec P/N: Standard WPI, Individually  
Box

Box Qty: 120

Gift Box Size (mm): 43\*90\*60

Gift Box Color: White

Master Carton Size (mm): 471\*279\*267

Master GW (Kg): 8.4 kg

BLADES INCLUDED: None:

BLADE/CORD INSTALLED: None:

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



GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-46060-0612, ITE 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: 6W, 12V@0.5A, Output Configuration: 1230 mm, 18/1C + Shield Cond, UL 1185, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: None, GlobTek Black, GT Cord # C2916, Pin Out: Center Positive (+V), Blades/Input Cord: (Order Separately), Approvals: 230V CoC Tier 2 EAC BIS FCC SGS (GS) CE CE China RoHS Double Insulation IP40 Level VI LPS PSE RoHS Ukraine VCCI WEEE cULus CB CCC RCM PSE PSE PSE CAN ICES-3 Korea(12V Only)	
	Model No. GT-46060-0612	
	Part No./Ordering No. WR9QE500CCP-N(R6B)	Rev A

**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

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

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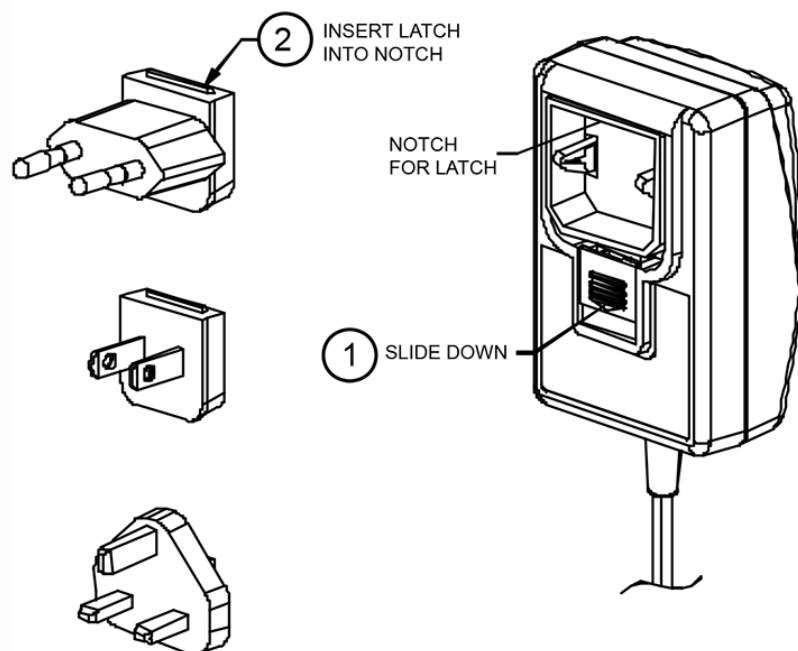
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of circuit component(s). Repair must be performed by GlobTek, Inc. authorized personnel. Fuses must be replaced with same type and ratings per GlobTek internal documentation.

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.



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