GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, 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, https://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, 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, Blades/Input Cord: Q-Series N. American, Approvals:		
	Model No. GT-46120-1005		
	Part No./Ordering No. WR9QA2000CCPNA-N(R6B	Rev B	

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/

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 (attached to the end of this document), which supersede all other agreements, terms, and conditions (https://www.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/battery packs 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.

# 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:

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Tel. (201) 784-1000
Fax (201) 784-0111

Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, 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, https://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, 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, Blades/Input Cord: Q-Series N. American, Approvals:

Model No. GT-46120-1005

Part No./Ordering No. WR9QA2000CCPNA-N(R6B

Rev B

# **REVISION HISTORY**

REV	DESCRIPTION	SUB	DATE	APPROVED
В	Update packaging Update Ukraine No.	rchiu	10/23/2017	QA
Α	Initial Release	jwarn	05/02/2017	QA

## 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, 0.6A		
INPUT CONFIG	Interchangeable Blades		
WATTS	10.00		
VOLTS OUT	5.0		
CURRENT OUT (Amps)	2.0		
BLADE/CORD INCLUDED	Q-NA(R) Q-Series N. American		
BLADE/CORD INSTALLED	Q-NA(R) Q-Series N. American		
INGRESS PROTECTION	IP52		
GROUNDING CONFIGURATION	(F1) Floating output, Class II / double insulated		
EFFICIENCY LEVEL	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 - Europe Code of Conduct on Energy Efficiency of External Power Supplies - Version 5		
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		
OVERMOLDED	Yes		
OUTPUT CONNECTOR GENDER	Female		
CONNECTOR PIN OUT	Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926		
LABEL SPECS	Standard GT,L-1186		
SPECIAL BARCODE LABEL MATERIAL	No		
PACK SPEC	Standard WPI, Individually Box, User manual		
USER MANUAL	809-PSUQKITUSERMANUAL on A4 paper		

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	Model No. GT-46120-1005		
	Part No./Ordering No. WR9QA2000CCPNA-N(R6B	Rev B	

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec)  DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE			
	1		

Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, 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, https://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, 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, Blades/Input Cord: Q-Series N. American, Approvals:

Model No. GT-46120-1005

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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. Output Regulation: +/- 5% measured at the output connector
- 04. Line Voltage Regulation: +/- 1% typical measured at the output connector
- 05. Average Efficiency: 82.96% Min (CEC & DOE LEVEL VI Compliant); 83.26% Min (ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant)
- 06. 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 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
- 08. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% step load
- 09. Turn-ON Delay: 1 Sec,typical
- 10. Hold-Up Time: 8 mS typical at nominal input voltage and full load
- 11. Inrush Current: 30A typical at 115VAC input; 60A typical at 230VAC input
- 12. Switching Frequency: 65 KHz typical

# B) PROTECTION

- 01. Over-Voltage: Protected Zener clamp across the output
- 02. Short Circuit: Protected unit will auto recover upon removal of fault
- 03. Input Protection: Input line fusing

#### C) SAFETY

- 01. Dielectric Withstand Voltage: 4242Vdc from primary to secondary
- 02. Touch Current: <0.25mA @ 240Vac input voltage

#### D) EMC

01. Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4

Conducted Emissions: Class B, FCC Part 15, Class B

Radiated Emissions: Class B, FCC Part 15, Class B

- 02. Line Frequency Harmonics EN61000-3-2, Class A
- 03. Voltage Fluctuations/Flicker EN61000-3-3
- 04. Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2

Static Discharge Immunity EN61000-4-2, 4kV Contact Discharge, 8kV air discharge

Radiated RF Immunity EN61000-4-3, 3V/m 80-1000MHz, 80% 1KHz AM.

EFT/Burst Immunity EN61000-4-4, 1kV/100kHz.

Line Surge Immunity EN61000-4-5, 1kV differential, 2kV common-mode

Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM

Power Frequency Magnetic Field Immunity EN61000-4-8, 1A/m

Voltage Dip Immunity EN61000-4-11, Criteria

# E) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature

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Model No. GT-46120-1005

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- 02. Operating Temperature: 0°C to 40°C ambient temperature
- 03. Humidity: 0% to 90% relative humidity
- 04. Storage Temperature: -10°C to 80°C
- 05. Cooling: Convection
- F) ENCLOSURE
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Size: 64.0\*40.5\*31.5 +/-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://r.globtek.info/3QeaqtD

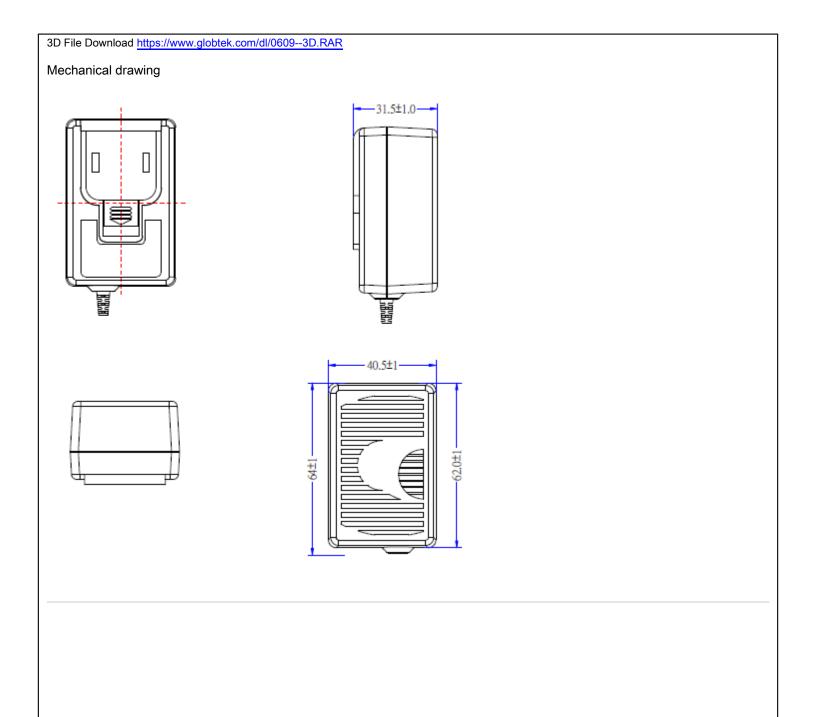
**INGRESS PROTECTION: IP52** 

Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, 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, https://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, 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, Blades/Input Cord: Q-Series N. American, Approvals:

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Fax (201) 784-0111	Part No./Ordering No. WR9QA2000CCPNA-N(R6B	Rev B	

Product Image
Web Overview
https://www.globtek.com/_0/WR9QA2000CCPNA-N(R6B/o

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Model No. GT-46120-1005

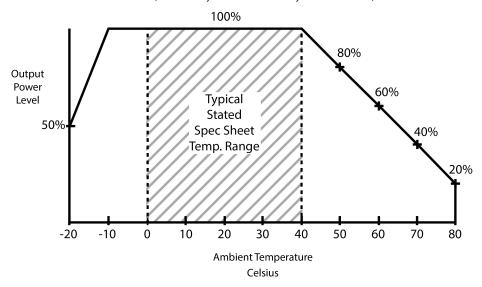
Part No./Ordering No. WR9QA2000CCPNA-N(R6B

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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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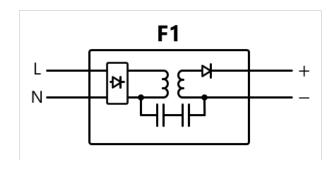
Model No. GT-46120-1005

Part No./Ordering No. WR9QA2000CCPNA-N(R6B

Rev B

#### INPUT CONFIGURATION

(F1) Floating output, Class II / double insulated



Alternate grounding configurations available upon request.

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

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

Q Blades (Interchangeable)

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

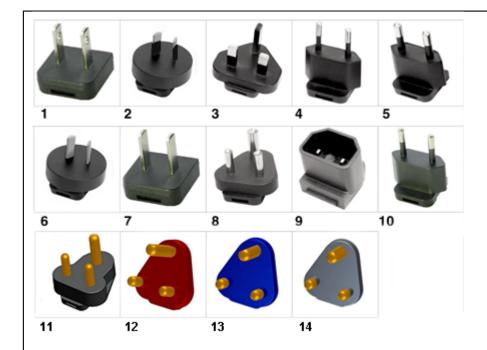
Video: Q-Blade Style Instruction Video

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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/ IEC PLUG Type A [WORKS IN PLUG B] configuration: NA 2 blades, Class II; US/CA/JP P/N: Q-NA(R)
- 02. Australian AS 3112 configuration: SAA 2 blade/ IEC TYPE I, Class II; AU P/N: Q-SAA(R)
- 03. UK BS 1363 configuration: UK 3 blade with dummy Ground/ IEC TYPE G, Class II; GB P/N: Q-UK(R)
- 04. European CEE 7/16 configuration: Europlug 2 pins/ IEC TYPE C [WORKS IN TYPE E&F], Class II; EU P/N: Q-EU(R)
- 05. Korean KS C8305 configuration: 2 pins/SIMILAR TO IEC TYPE C, Class II; KR P/N: Q-KR(R)
- 06. Argentina IRAM 2073 configuration: 2 blades/SIMILAR TO IEC TYPE I; AR P/N: Class II Q-AR(R)
- 07. China GB 2099 configuration: 2 blades/SIMILAR TO TYPE A, Class II; CN P/N:Q-CN(R)
- 08. India IS 1293 6A/BS546 configuration: 5A, 3 pins with Dummy Ground, Class II/IEC TYPE D; IN P/N: Q-IN(R)
- 09. IEC60320/C18 Inlet, Class II; P/N: Q-C18(R)
- 10. Brazilian NBR6147 configuration: 2 pins, Class II; SIMILAR TO IEC TYPE C BR P/N: Q-BR(R)
- 11. South Africa SABS164-1 and India IS 1293, IS694, 16A type plug, 3 round prongs, Class II + dummy ground, IEC TYPE M P/N: Q-SANS164-1-16A(R)
- 12. South Africa SABS164-4, 3 round prongs with a notched prong @ 0°, Class II + dummy ground, IEC TYPE M Red, P/N:
- Q-SANS164-4C-16A(R)
- 13. South Africa SABS164-4, 3 round prongs with a notched prong @ -53°, Class II + dummy ground, Blue, IEC TYPE M,

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# P/N:

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

14. South Africa SABS164-4, 3 round prongs with a notched prong @ +53°, Class II + dummy ground, Black, IEC TYPE M 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

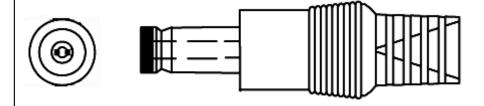
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OUTPUT CORD AND CONNECTOR:	CL1/C2916
ACTUAL CONNECTORS, OVERMOLDS, FER	RITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW
CABLE TYPE	UL 1185
CABLE LENGTH (mm)	1230
CABLE TOLERANCE (mm)	+150 -0
WIRE GAUGE (AWG)	18
CONDUCTORS	1C + Shield
HANK DIMENSION (mm)	70 ±10
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE AND DIMENSION	None
FERRITE NUMBER OF TURNS(Definition)	N/A
FERRITE DIMENSION FROM STRAIN RELIE	F N/A
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal
OUTPUT CONNECTOR GENDER	Female
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT	Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926



## BARREL-PLUG-ADAPTER-RING(R)

(sold separately) to add a spacer for applications requiring a shorter barrel such as 9.5mm

Mates with jacks:

JACK-C-PC-10A-RA(R) JACK-C-PANEL-8A(R) JACK-C-SMT-10A-RA(R)

ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT https://www.globtek.com/en/connectors STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT https://www.globtek.com/en/connectors CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: https://www.globtek.com/r2/PtqjjL

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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
FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT:  https://www.globtek.com/en/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies

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Model No. GT-46120-1005

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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)	29.8
LABEL HEIGHT (mm)	20.8
SPECIAL BARCODE LABEL MATERIAL	No

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=ICT/ITE Power Supply

B=P/N: (料号) WR9QA2000CCPNA-N(R6B

C=Model (型号) GT-46120-1005

D=Input (输入)100-240V~, 50-60 Hz, 0.6A E=Output (输出)5.0 V == 2.0 A, 10.00W

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northyale, NJ 07647	Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/178. GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, Interchangeable Blacktys://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with no. 5926, Output Configuration: 1230 mm, 18/1C + Shield Cond, UL 1185, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal GlobTek Black, GT Cord # C2916, Blades/Input Cord: Q-Series N. American, Approvals:	ides, IEC 60417 symbol
Tel. (201) 784-1000	Model No. GT-46120-1005	
	Part No./Ordering No. WR9QA2000CCPNA-N(R6B	Rev B

AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GT-46120-WWVV/	
CE EC-Declaration for Medical	Contact GlobTek for more information	
CE EC-Declaration for Industrial/Commercial/ITE	https://cs.globtek.info/ec_declaration_product?id=01ta0000007dRly&i=2	
CE EC-Declaration for Household	Contact GlobTek for more information	
UKCA-Declaration for Medical	Contact GlobTek for more information	
UKCA-Declaration for Industrial/Commercial/ITE	https://cs.globtek.info/ukca_declaration_product?id=01ta0000007dRly&i=2	
UKCA-Declaration for Household	Contact GlobTek for more information	
Morocco SDoC Declaration	https://cs.globtek.info/Morocco_SDoC_Declaration?id=a0Oa000000Nrw14EAB	
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01ta0000007dRIyAAM	
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf	
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf	
Prop 65 Statement	https://www.globtek.com/prop-65-statement.pdf	
IPXY rating is based on 3rd party testing and cus	tomers should check suitability and test system level IPXY rating before ordering.	
Regulatory Certifications/Label M		
Regulatory Certifications/Label M	Cations and marks for this specific product. National standards as well as certification marks and symbols applicable to this product. Various standards, marks and symbols	
Regulatory Certifications/Label Management Management Properties of the Selow follows a link to the latest regulatory certification constantly changing and so is the set of certification certificates are subject to change at any time with	Cations and marks for this specific product. National standards as well as certification marks and symbols applicable to this product. Various standards, marks and symbols	

and LATEST PRODUCT/MODEL CERTIFICATIONS: https://www.globtek.com/ds/VD5QUFNUED4/xMVkcFEtQk5.html#datasheet AGENCY ONLINE DOCUMENTS http://www.globtek.info/certs/GT-46120-WWVV/ (F1) Floating output, Class II / double insulated Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926

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Model No. GT-46120-1005

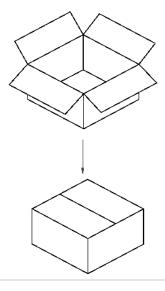
Part No./Ordering No. WR9QA2000CCPNA-N(R6B

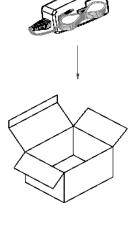
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PACKAGING	
Packing Spec P/N	Standard WPI, Individually Box, User manual
Packing Quantity/Multiple/MPQ	80
Gift Box Size (mm)	90.5*73*53
Gift Box Color	White
Master Carton Size (mm)	375 x 368 x 225
Master Carton Cubic Volume (m³)	0.03
Master GW (Kg)	15.4 kg
BLADES INCLUDED	Q-NA(R): Q-Series N. American
BLADE/CORD INSTALLED	Q-NA(R): Q-Series N. American
USER MANUAL*	809-PSUQKITUSERMANUAL on A4 paper
USER MANUAL WEB LINK	https://www.globtek.com/pdf/809-PSUQKITUSERMANUAL.ipg

<sup>\*</sup> 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.

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, Northyale, NJ 07647	no. 5926, 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: No.	ides, IEC 60417 symbol
Tel. (201) 784-1000 Fax (201) 784-0111	Model No. GT-46120-1005	
	Part No./Ordering No. WR9QA2000CCPNA-N(R6B	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 product 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.

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186 Veterans Drive,
Northvale, NJ 07647
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Fax (201) 784-0111

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#### 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-UK(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

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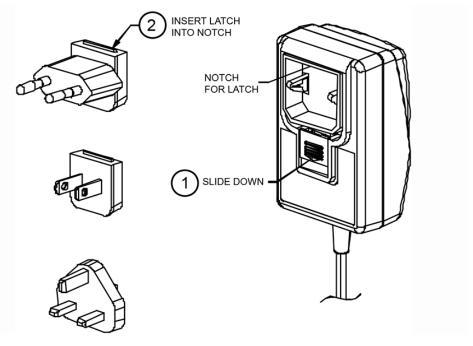
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FUSING: Internal fuse for Line is provided in the power supply. A blown internal fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by GlobTek, Inc. authorized personnel. Fuses must be replaced with same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



 $\Lambda$ 

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

## Please note:

The blades shown above are for representation of the installation process and do not indicate which AC blades are included with this power supply. Please reference the specifications "Power Supply Information" (page 2) and "Input Configuration (page 6) for information regarding the actual blade included with this power supply, if any.

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# TERMS AND CONDITIONS

THESE TERMS AND CONDITIONS GOVERN THE SALE OF ALL PRODUCTS AND SERVICES ("PRODUCTS") BY GlobTek, Inc. ("GlobTek") AND APPLY NOTWITHSTANDING ANY CONFLICTING, CONTRARY OR ADDITIONAL TERMS AND CONDITIONS IN ANY PURCHASE ORDER OR OTHER DOCUMENT OR COMMUNICATION ("PURCHASE ORDER") FROM BUYER. THESE TERMS AND CONDITIONS MAY ONLY BE WAIVED OR MODIFIED IN A WRITTEN AGREEMENT SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE SELLER. NEITHER SELLER'S ACKNOWLEDGEMENT OF A PURCHASE ORDER NOR SELLER'S FAILURE TO OBJECT TO CONFLICTING, CONTRARY OR ADDITIONAL TERMS AND CONDITIONS IN A PURCHASE ORDER SHALL BE DEEMED AN ACCEPTANCE OF SUCH TERMS AND CONDITIONS OR A WAIVER OF THE PROVISIONS HEREOF.

# **ORDERS:**

1. Buyer must issue a Purchase Order or otherwise place an order by means acceptable to GlobTek. Orders shall identify the Products, unit quantities, part numbers, descriptions, applicable prices, ship to address and requested delivery dates. All orders are subject to acceptance by GlobTek. No order may be cancelled or rescheduled without GlobTek's consent. Consent may be given by GlobTek in its sole discretion. GlobTek reserves the right to add a Rescheduling Fee should Seller deem applicable. Seller reserves the right to allocate sales of Products among its customers in its sole discretion.

## RESTOCKING TERMS:

- 1. Returning of stock items only: All claims must be made within ten (10) days of receipt of goods. GlobTek must authorize all returns. No return of product will be accepted without GlobTek's Return Merchandise Authorization (RMA) number. All authorized returns will be subject to a minimum of 25% restocking charge\* and buyer must pay return freight to GlobTek. Parts must be in original condition and packaging.
- 2. \*Custom items and/or dedicated production lots are not returnable.

## RETURNED MERCHANDISE:

1. Replacement or credit will not be allowed for products returned without prior consent. No return of product will be accepted without a GlobTek RMA number. RMA requests for all goods that are found to be not in compliance with Seller's specifications shall be made according to Seller's RMA procedure within thirty (30) days of invoice/shipment date and may be replaced, repaired, or credited at GlobTek's option. All RMA claims reported more than thirty (30) days after the invoice/shipment date are not eligible for return, replacement or credit at subject to GlobTek's Terms and Conditions. GlobTek will not issue credit if the Product has been altered, repaired, or opened by persons other than those authorized by GlobTek, become defective due to acts of God or negligence, become defective due to being subjected to abnormal conditions during installation, application or maintenance or if warranty has expired. Acceptance of Buyer's debit will not be made until material has been received and evaluated by the GlobTek. To determine the "Root Cause of Failure", the product may be destroyed during evaluation. If this occurs all of the above Terms and Conditions will remain in effect. All freight costs for returns, both from customer back to GlobTek and GlobTek back to customer will not be borne by GlobTek. GlobTek requires all goods to be returned freight, duty, and taxes prepaid to the location provided in the RMA authorization notification and repaired or replaced goods will be provided

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on an EX WORKS return location. GlobTek shall not be responsible, under any circumstances, for any rework or modification fee's or costs not previously authorized in writing by GlobTek. If returned goods do not match the quantity or descriptions provided in the RMA application, any non conforming goods will not be qualified for repair, return, or replacement. Goods with illegible date code/serial # information may not be eligible for repair, return, replacement

## PRICES/TAXES/TARIFFS:

1. Prices shall be as specified by Seller and shall be applicable for the period specified in GlobTek's quote. If no period is specified, prices shall be applicable for thirty (30) days. Notwithstanding the foregoing, prices shall be subject to increase in the event of an increase in GlobTek's costs or other circumstances beyond GlobTek's reasonable control. Prices are exclusive of taxes, impositions, tariffs, fees, and other charges, including, without limitation, sales, use, excise, value added, and ad valorem taxes, as well as tariffs of all types (including any tariffs imposed pursuant to any Section 301 Action by the United States Trade Representative) and similar taxes, fees, imposts, or charges of whatsoever kind, imposed now or in the future by any foreign or domestic governmental authority, international shipping charges, forwarding agent's and broker's fees, consular fees, document fees and import duties. If GlobTek shall be liable to collect and/or pay, or if the GlobTek shall pay, any of the foregoing, Buyer shall pay same to GlobTek in addition to the price of the Products.

# TERMS OF PAYMENT:

1. Payment shall be net thirty (30) days from date of invoice or as otherwise specified by GlobTek. Buyer agrees to pay the entire net amount of each invoice from Seller pursuant to the terms of each such invoice without offset or deduction. Orders are subject to credit approval by GlobTek, which may in its sole discretion at any time change the terms of Buyer's credit, require payment in cash, bank wire transfer, or by official bank check and/or require payment of any or all amounts due or to become due for Buyer's order before shipment of any or any of the Products. If GlobTek believes in good faith that Buyer's ability to make payments may be impaired or if Buyer shall fail to pay any invoice when due, GlobTek may suspend delivery of any order or any remaining balance thereof until such payment is made or cancel any order or any remaining balance thereof, and Buyer shall remain liable to pay for any Products already shipped and all Products ordered by Buyer. Buyer agrees to submit such financial information from time to time as may be reasonably requested by GlobTek for the establishment and/or continuation of credit terms. Checks are accepted subject to collection and the date of collection shall be deemed the date of payment. Any check received from Buyer may be applied by GlobTek against any obligation owing from Buyer to GlobTek, regardless of any statement appearing on or referring to such check, without discharging Buyer's liability for any additional amounts owing from Buyer to GlobTek, and the acceptance by GlobTek of such check shall not constitute a waiver of GlobTek's right to pursue the collection of any remaining balance. Buyer shall pay interest on any invoice not paid when due according to the due date at the rate of eighteen (18%) percent annually or the highest rate allowable by law. If Buyer fails to make payment when due, GlobTek may pursue any legal or equitable remedies, in which event GlobTek shall be entitled to reimbursement for costs of collection and reasonable attorneys fees.

# REFUSED OR DAMAGED SHIPMENTS:

1. All products returned to GlobTek due to refusal of acceptance by buyer, without GlobTek authorization, will be subject to minimum of 25% restocking charge\* and buyer must pay return freight to GlobTek. Parts must be in original condition and packaging. Seller takes extra precautions to insure that shipments are made under the Highest Quality Standards. In the event a

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shipment is received in damaged condition, Buyer shall contact the carrier to submit claim, keep Products in original boxes pending carrier's inspection and place a replacement order with the Seller.

2. \*Custom items and/or dedicated production lots are not returnable.

# TECHNICAL ADVICE AND DATA:

1. Any technical advice offered or given in connection with the use of any goods is an accommodation to Buyer without charge and GlobTek shall have no responsibility or liability whatsoever for the content or use of such advice. Without GlobTek's prior written consent, Buyer shall not use, duplicate or disclose any technical data delivered or disclosed by GlobTek to Buyer for any purposes other than for installation, operation or maintenance of goods purchased by Buyer. Any use made of GlobTek classifications, whether it be ECCNs or any variation of Harmonized Tariff codes, is without recourse to GlobTek and at the user's risk. Export classifications are subject to change. If you export or re-export, your company, as the exporter of record, is responsible for determining the correct classification of any item at the time of export. Any export classification by GlobTek is for GlobTek's internal use only and shall not be construed as a representation or warranty regarding the proper export classification nor relied upon to make licensing determinations.

# Tariff Surcharge - Section 301 and Related Import Duties

GlobTek, Inc. hereby notifies all customers that a tariff surcharge fee is applied to cover import duties and tariffs, including but not limited to those imposed under Section 301 of the U.S. Trade Act of 1974, affecting Chinese-origin goods imported into the United States between 2018 and 2025.

Customers receiving delivery from U.S.-based shipping points were and are informed of the tariff surcharge:

- At the time of quotation;
- During order entry; and
- Through routine updates issued during the order process.

Due to the volatility of tariff rates and ongoing changes in U.S. trade policy, GlobTek reserves the right to adjust the tariff surcharge fee:

- To match the current applicable tariff rates, or
- To reflect the maximum applicable tariff rate assessed on the product(s) in question, depending on the date of importation into the U.S.

By placing an order with GlobTek for goods that are produced in china built to order and imported from China, the customer expressly acknowledges and agrees to pay the applicable tariff surcharge fee. This surcharge is non-negotiable and is considered a part of the total purchase price for applicable transactions.

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# **FORCE MAJEURE:**

1. GlobTek shall not be liable for failure to fulfill the obligations herein or for delays in delivery due to causes beyond its reasonable control, including, but not limited to, acts of God, natural disasters, acts or omissions of other parties acts or omissions of civil or military authority, Government priorities, changes in law, material shortages, fire, strikes, floods, epidemics, quarantine restrictions, riots, war, acts of terrorism, delays in transportation or inability to obtain labor or materials through its regular sources. GlobTek's time for performance of any such obligation shall be extended for the time period of such delay or GlobTek may, at its option cancel any order or remaining part thereof without liability, advising in writing notice of such cancellation to Buyer.

# LIMITATION OF LIABILITIES:

1. BUYER SHALL NOT IN ANY EVENT BE ENTITLED TO, AND SELLER SHALL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE INCLUDING, WITHOUT LIMITATION BUSINESS INTERRUPTION COSTS, REMOVAL AND/OR REINSTALLATION COSTS, REPROCUREMENT COSTS, LOSS OF PROFIT OR REVENUE, LOSS OF DATA, PROMOTIONAL OR MANUFACTURING EXPENSES, OVERHEAD, INJURY TO REPUTATION OR LOSS OF CUSTOMERS. EVEN IF GLOBTEK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BUYER'S RECOVERY FROM SELLER FOR ANY CLAIM SHALL NOT EXCEED BUYER'S PURCHASE PRICE FOR THE PRODUCT GIVING RISE SUCH CLAIM IRRESPECTIVE OF THE NATURE OF THE CLAIM, WHETHER IN CONTRACT, TORT, WARRANTY OR OTHERWISE. GLOBTEK SHALL NOT BE LIABLE FOR AND BUYER SHALL INDEMNIFY, DEFEND AND HOLD GLOBTEK HARMLESS FROM ANY CLAIMS BASED ON GLOBTEK'S COMPLIANCE WITH BUYER'S DESIGNS, SPECIFICATIONS OR INSTRUCTIONS, OR MODIFICATION OF ANY PRODUCTS BY PARTIES OTHER THAN SELLER, OR USE IN COMBINATION WITH OTHER PRODUCTS. GLOBTEK INC. WILL NOT BE LIABLE FOR THE SAFETY AND PERFORMANCE OF THESE PRODUCTS IF UNAUTHORIZED USE, ACCESS AND/OR REPAIR. END USER SHOULD CONSULT APPLICABLE UL, CSA OR EN STANDARDS FOR PROPER INSTALLATION INSTRUCTIONS. GLOBTEK PRODUCTS 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 GLOBTEK SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

# **GENERAL:**

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Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, 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, https://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, Output Configuration: 1230 mm, 18/IC + 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, Blades/Input Cord: Q-Series N. American, Approvals:

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GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northyale, NJ 07647	Drawing Title: GT-46120-1005, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/178. GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, Interchangeable Blahttps://www.globtek.com/interchangeable-blades.php, Output Rating: 10.00W, 5.0V@2.0A, Pin Out: Center Positive (+V), symbol compliant with no. 5926, Output Configuration: 1230 mm, 18/1C + Shield Cond, UL 1185, Female Barrel 5.5*2.1*11mm w/ Spring Clip & Locking Notch or Equal GlobTek Black, GT Cord # C2916, Blades/Input Cord: Q-Series N. American, Approvals:	des, IEC 60417 symbol
Fax (204) 704 0444	Model No. GT-46120-1005	
	Part No./Ordering No. WR9QA2000CCPNA-N(R6B	Rev B

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