

GloTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96605-GEN2-A1-R2, USB Adaptive Power Source ITE/Medical Power supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Desktop/External, USB Adaptive Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60Hz, IEC 60320/C8 , Output Rating: 60W, 5V, 5.8V, 9V, 12V, 15V, 20VV@4.6A, 4.6A, 4.4A, 4A, 3.6A, 3AA, Output Configuration: 1500 mm, 2C 20 + 3C 28/5C + Shield Cond, N/A, USB Type-C Connector, Ferrite: None, GlobTek Black, GT Cord # C16294, Pin Out: +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, D+:A6, D-:A7, Blades/Input Cord: Not Applicable, Approvals: RCM; EAC; CE; China RoHS; Double Insulation; Level VI; PSE; RoHS; VCCI; WEEE; Ukraine; CB 60601-1 2MOPP; CB 60950; CB 62368; cETLus 60601-1 3rd; ETL; ETL 62368; cETLus 60601; UL 1310; S-Mark IEC/EN 60601-1; S-Mark 60950; CCC; RCM;	
	Model No. GTM96605-GEN2-A1-R2	
	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
C	Update line 'A' on the label: <b>change product name Adaptive Power USB Source to USB Adaptive Power Source ITE/Medical Power supply</b>	QA	08/08/2018	QA
B	Update approvals	QA	06/11/2018	QA
A	Initial Release	svlas	01/15/2018	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/>).

### 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: USB Adaptive Power Supply AC Adaptor  
CASE COLOR: GlobTek Black  
NAMEPLATE RATED INPUT: 100-240V~, 50-60Hz, 1.5A  
INPUT CONFIG: IEC 60320/C8  
WATTS: 60.0  
VOLTS OUT: 5V, 5.8V, 9V, 12V, 15V, 20V  
CURRENT OUT (Amps): 4.6A, 4.6A, 4.4A, 4A, 3.6A, 3A  
BLADE/CORD INCLUDED: N/A  
BLADE/CORD INSTALLED: N/A  
INGRESS PROTECTION:  
GROUNDING CONFIGURATION: (F1) Class II / Double Insulated  
EFFICIENCY LEVEL: VI  
OUTPUT CONFIGURATION: 1500 mm, 2C 20 + 3C 28/5C + Shield Cond, N/A, USB Type-C Connector, Ferrite: None, GlobTek Black, GT Cord # C16294  
OVERMOLDED: Yes  
CONNECTOR PIN OUT: +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, D+:A6, D-:A7  
LABEL SPECS: Standard GT,L-1186  
SPECIAL BARCODE LABEL  
MATERIAL:  
PACK SPEC: Desktop/WPI with Desktop Insert T3, User manual  
USER MANUAL: 809-PSURKITUSERMANUAL on A4 paper

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

### **OUTPUT CAPABILITIES**

**Communication formats supported:** USB Power Delivery (PD) 2.0/3.0, Quick Charge™ 2.0/3.0, Quick Charge™ 4.0/4.0+

#### **Output Parameters (for USB PD 2.0/3.0 applications):**

Communications: Using the 'CC' line in a USB Type-C cable

Initial Output State: 5.0V/2.0A

Advertised USB PD Power Data Objects (PDOs):

A1 Option: 5.0V@4.6A, 5.8V@4.6A, 9.0V@4.4A, 12V@4.0A, 15V@3.6A, 15.1V@3.6A, 20V@3.0A

A2 Option: 5.0V@3.0A, 5.8V@3.0A, 9.0V@3.0A, 12V@3.0A, 15V@3.0A, 15.1V@3.0A, 20V@3.0A

A1 Option (standard configuration): Permanently attached (captive) output cable: 1.5m Length, 20AWG, shielded, 5A rated Type-C connector

A2 Option (non-standard configuration): Detachable output cable. Contact GlobTek for availability.

**Note 1:** Custom PDOs available upon request. PDO1 must be 5.0V. PDO2 through PDO7 may be set to any custom voltage from 3.6V to 20V, with a step size of 100mV.

**Note 2:** For "mission critical" applications requiring power supply authentication, USB PD Vendor Defined Messages (VDMs) may be implemented to prevent system usage with non-certified power sources. Please see our article [Product Security and Risk Mitigation for USB Power Delivery \(PD\) Based Systems](#) for additional information.

#### **Output Parameters (for Quick Charge™ 2.0/3.0 applications):**

Communications: Using the 'D+' and 'D-' lines in a USB Type-C/Micro-B cable

Initial Output State: 5.0V/2.0A

HVDCP Class B Output Voltages/Currents Ratings:

D+	D-	Output
0.6V	GND	5.0V/4.6A
3.3V	0.6V	9.0V/4.4A
0.6V	0.6V	12V/4.0A
3.3V	3.3V	20V/3.0A
0.6V	3.3V	Continuous Mode, adjusts from 3.6V to 20V in 200mV steps

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Permanently attached (captive) output cable: 1.5m Length, 20 AWG, shielded

### **A) GENERAL ELECTRICAL SPECIFICATIONS**

01. Input Voltage: Specified 90-264 V<sub>AC</sub>, Nameplate rated: 100-240V<sub>AC</sub>  
90-264 V<sub>AC</sub> range @ 100% of rated load current  
85-264 V<sub>AC</sub> range @ 85% of rated load current  
110-370 V<sub>DC</sub> range @ 100% of rated load current
02. Input Frequency: Specified: 47-63 Hz (Nameplate rated: 50-60Hz)
03. Output Regulation: ± 4%, measured at the output connector
04. Line Voltage Regulation: ± 0.5% (typ.), measured at full load
05. Green Power-On Indicator LED
06. Output Ripple (V<sub>p-p</sub>): 100 mV, measured at 20 MHz bandwidth, with 0.1 µF ceramic capacitor in parallel with a low impedance 47 µF electrolytic capacitor, connected at the end of the output connector
07. Turn-On/Off Overshoot: 5% (max.), 1 ms (typ) recovery time for 40% to 70% step load
08. Turn-On Delay: 1 second (max.) @ full load and nominal line voltage
09. Hold-Up Time: 8 ms (typ.) @ full load and nominal line voltage
10. Inrush Current: 30A/60A maximum cold start @ 115/230V<sub>AC</sub> input
11. Efficiency: Efficiency Level VI and CoC Tier 2 compliant
12. No Load Standby Power: <0.075 W @ 230V<sub>AC</sub>

### **B) PROTECTIONS**

01. Input Protection: Input line fusing and 300V<sub>AC</sub> MOV
02. Short Circuit/ Overload: Electronically protected, auto-recover upon fault removal  
Output Current Limit: 110% to 135% of rated output current
03. Output Over-Voltage: 25V<sub>DC</sub> max

### **C) SAFETY**

01. Dielectric Withstand Voltage: 4000V<sub>AC</sub> or 5656V<sub>DC</sub> from input to output
02. Earth Leakage Current: 3-conductor input models: <300µA, 2-conductor input models: N/A
03. Touch Current: 3-conductor input models: < 20µA, 2-conductor input models: < 65µA
04. Output Isolation Options:
  - a) C8 Inlet, Class II (Standard)
  - b) C6 or C14 Inlet, Class II FE, Output Isolated from earth contact (Standard)
  - c) C6 or C14 Inlet, Class I, Output directly attached to earth contact
05. Means of Protection: 2 x MOPP

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06. Compliant Standards: See listings at end the end of this specification for details

**D) EMC**

EN 60601-1-2, 4<sup>th</sup> edition

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

Line Frequency Harmonics EN61000-3-2, Class A

Voltage Fluctuations/Flicker EN61000-3-3

Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2

Static Discharge Immunity EN61000-4-2, 10kV Contact Discharge, 20kV air discharge

Radiated RF Immunity EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM.

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

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

Conducted RF Immunity EN61000-4-6, 3V<sub>RMS</sub>, 80% 1KHz AM

Power Frequency Magnetic Field Immunity EN61000-4-8, 3A/m

Voltage Dip Immunity EN61000-4-11, Criteria

**E) OTHER**

01. MTBF: 300,000 Hours @ 25°C ambient temperature

02. Operating Temperature:

-10°C to 40°C ambient temperature at full load

-10°C to 50°C ambient temperature with derating to 80% load

03. Operating Humidity: 0% to 95% relative humidity, non-condensing

04. Storage Temperature: -30°C to 80°C

05. Operating Altitude: 5000m

06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

**F) ENCLOSURE**

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented

02. Markings: Label or Laser Printed

03. AC Input mechanical options:

Desktop C6, C8, C14 or C18 IEC Inlet.

Hybrid option (Desktop or Wall Plug-in) Class I or Class II input

**G) SECURITY**

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*For USB Power Delivery only*

Two non-standard voltage profiles are included: 5.8V and 15.1V. System designers may use these non-standard profiles to prevent system operation with non-GlobTek power supplies. (Note: 12.0V is technically not standard, but is often included in other power supplies.)

The power supply will respond to a USB PD “Discover Identity” VDM with 0x4754 in the “ProductID” field. USB PD host systems may check this value before initiating/allowing power negotiation.

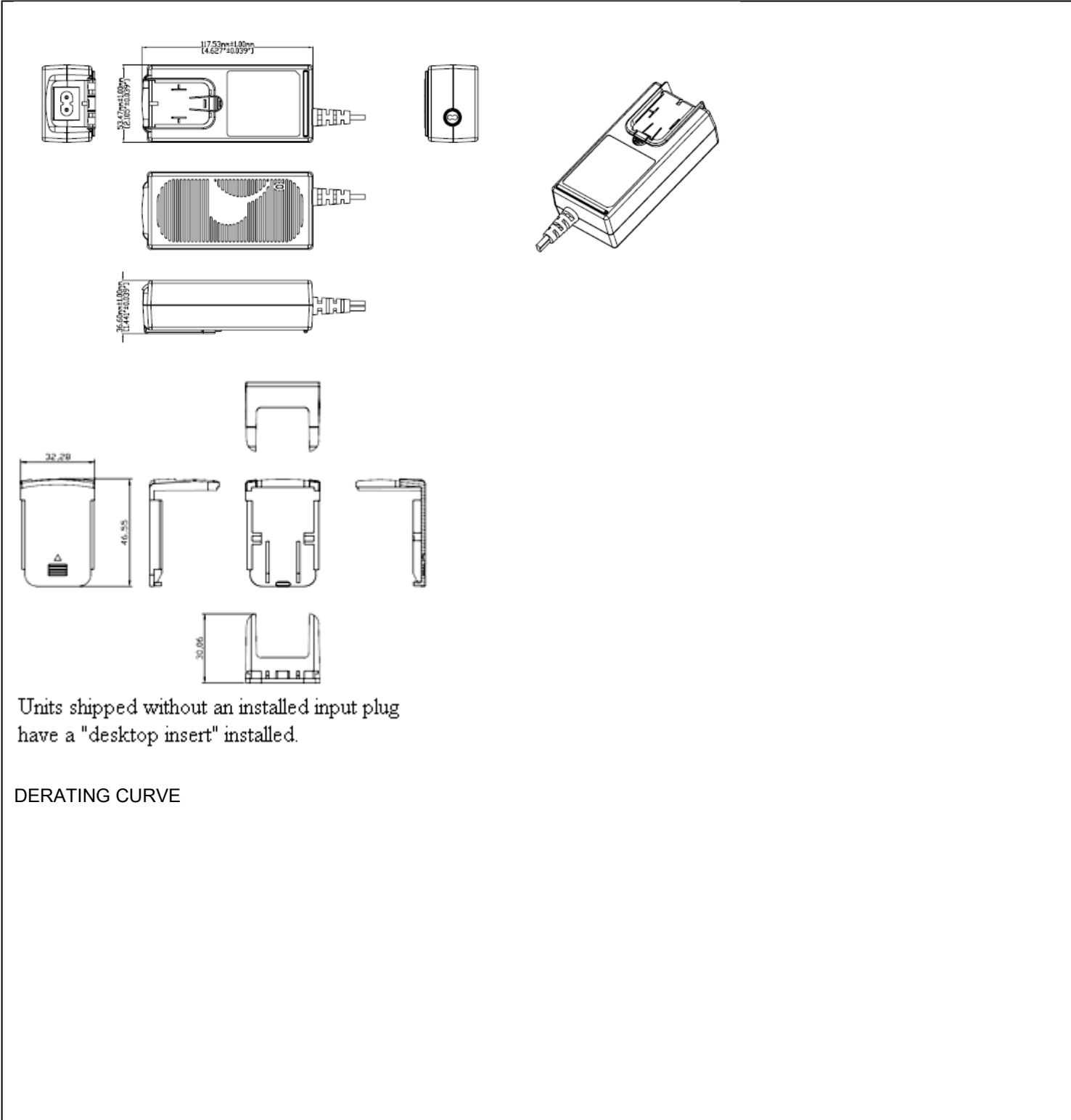
Please see our article [Product Security and Risk Mitigation for USB Power Delivery \(PD\) Based Systems](#) for additional information.

**H) SPECIAL OPTIONS**

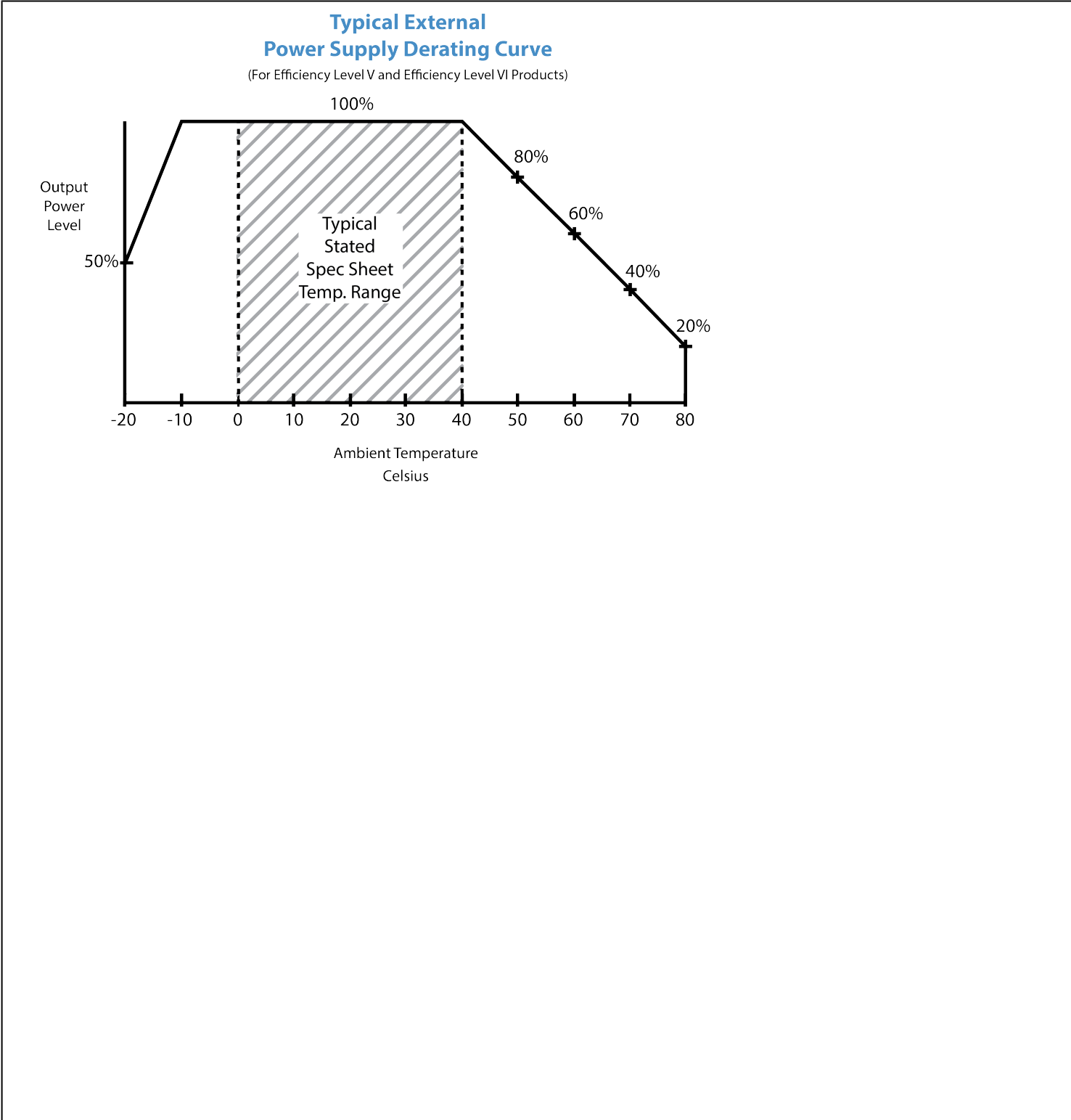
*Non-standard - Contact GlobTek for details*

01. Detachable USB-C output cord
02. Special fixed output cord length: 1m, 2m or 3m lengths
03. Custom PD3.0 PDOs: Output voltages selectable between 3.6V and 20V
04. Custom markings, and marking methods
05. Special housing colors and output cord colors
06. USB Micro-B connector at end of cord for Quick Charge™ 2.0/3.0 applications.
07. Tighter output voltage tolerance
08. Constant current/ constant voltage (CC/CV) battery charging, with max charge duration timer

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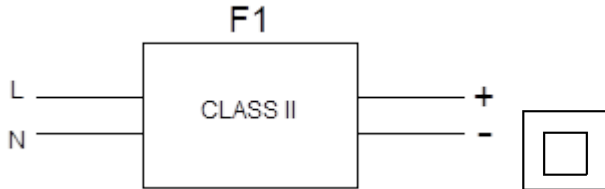




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## INPUT CONFIGURATION

(F1) Class II / Double Insulated



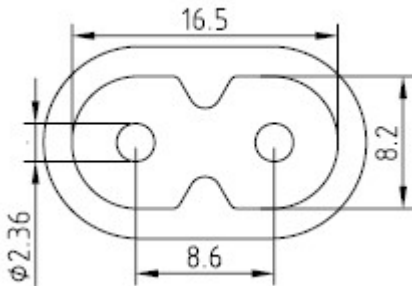
[Alternate grounding configurations](#) available upon request.

Blades/Cord Included:N/A:

Blades/Cord Installed:N/A:

IEC 60320/C8 AC Inlet connector

[Blade Insertion Instructions](#)  
[R-Blade Style Instruction Video](#)



Mates with IEC 60320/C8 Plug

This series of Interchangeable Blade products may be used with Proprietary Interchangeable Blades as described below or with standard international power cords.

Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

1. Class II model NEMA 1-15P AC power plug with 2 prongs, R-NA-2(R)
2. Australian AS 3112 configuration: SAA 2 pins Class II, R-SAA-2(R)
3. UK BS 1363 configuration: UK 2 pins (dummy Ground) Class II, R-UK-2(R)
4. European CEE 7/16 configuration: Europlug 2 PINS, Class II, R-EU-2(R)
5. China GB 2099 configuration: 2 blades, Class II; CN P/N:R-CN-2(R)

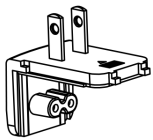
6. Desktop Insert  
 Kits

### PROPRIETARY INFORMATION

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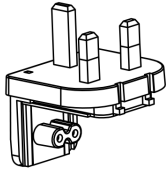
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM96605-GEN2-A1-R2, USB Adaptive Power Source ITE/Medical Power supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Desktop/External, USB Adaptive Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60Hz, IEC 60320/C8 , Output Rating: 60W, 5V, 5.8V, 9V, 12V, 15V, 20VV@4.6A, 4.6A, 4.4A, 4A, 3.6A, 3AA, Output Configuration: 1500 mm, 2C 20 + 3C 28/5C + Shield Cond, N/A, USB Type-C Connector, Ferrite: None, GlobTek Black, GT Cord # C16294, Pin Out: +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, D+:A6, D-:A7, Blades/Input Cord: Not Applicable, Approvals: RCM; EAC; CE; China RoHS; Double Insulation; Level VI; PSE; RoHS; VCCI; WEEE; Ukraine; CB 60601-1 2MOPP; CB 60950; CB 62368; cETLus 60601-1 3rd; ETL; ETL 62368; cETLus 60601; UL 1310; S-Mark IEC/EN 60601-1; S-Mark 60950; CCC; RCM;	
	Model No. GTM96605-GEN2-A1-R2	
	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

05. R-KIT: 1,2,3,4 above  
06. R-KIT-INTL: 2,3,4 above



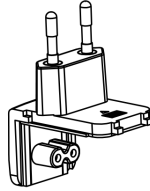
**UL 2P**

P/N: R-NA-2(R)  
NORTH AMERICA  
JAPAN



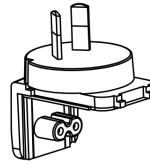
**UK 2P**

P/N: R-UK-2(R)  
UNITED KINGDOM  
HONG KONG  
SINGAPORE



**EU 2P**

P/N: R-EU-2(R)  
EUROPE  
SOUTH AMERICA



**AUS 2P**

P/N: R-SAA-2(R)  
AUSTRALIA

**Standard Cordsets**

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

Part Number	Country	Plug	Connector	Length (mm)	Length (feet)
<a href="#">2094112M703(R)</a>	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
<a href="#">5014112M703A(R)</a>	Australian (Type I)	AS 3112	IEC 320/C7	2000	7
<a href="#">207B4111M8703(R)</a>	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
<a href="#">4533501M8703(R)</a>	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
<a href="#">2074112M703A(R)</a>	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
<a href="#">2084111M8703(R)</a>	India (Type M)	BS 546	IEC 320/C7	1800	6
<a href="#">451J3401M8703(R)</a>	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
<a href="#">2044112M703A(R)</a>	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
<a href="#">4511116F703A(R)</a>	N. American (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
<a href="#">4033401M8703A(R)</a>	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
<a href="#">6104112M703A(R)</a>	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	2000	7

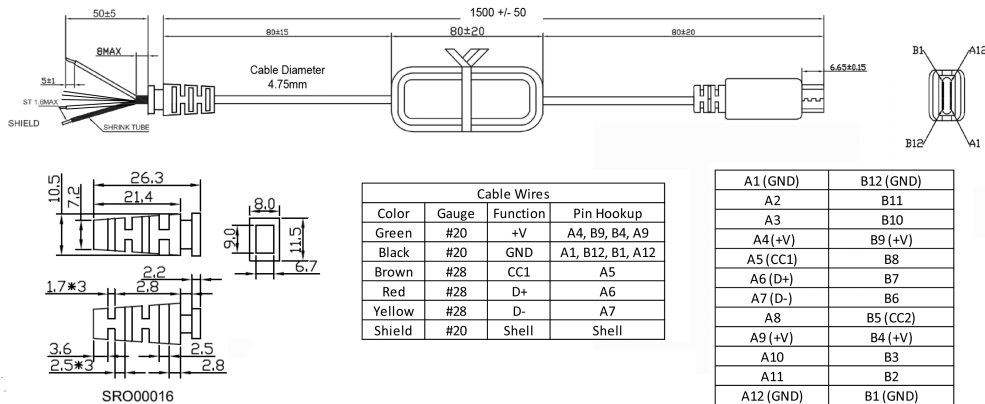
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	Model No. GTM96605-GEN2-A1-R2	
	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

**OUTPUT CORD AND CONNECTOR: USBC31/C16294**

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

CABLE TYPE	N/A
CABLE LENGTH (mm)	1500
CABLE TOLERANCE (mm)	±50
WIRE GAUGE (AWG)	2C 20 + 3C 28
CONDUCTORS	5C + Shield
HANK DIMENSION (mm)	80+/-20
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	USB Type-C Connector
OUTPUT CONNECTOR SEX	
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
	+V: A4, A9, B4, B9, GND: A1, A12, B1, B12,
CONNECTOR PIN OUT:	CC1: A5, D+:A6, D-:A7

**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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	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

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):

LABEL HEIGHT (mm):

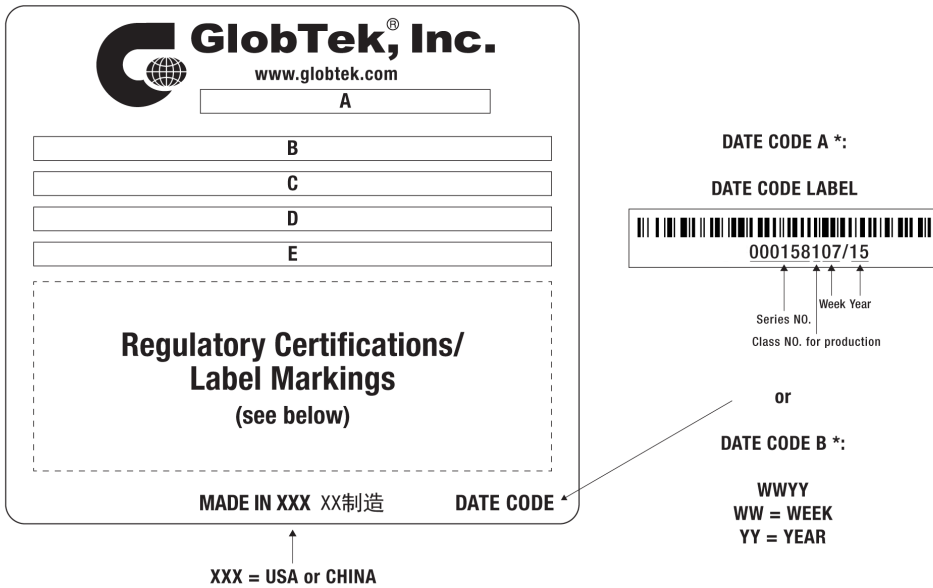
SPECIAL BARCODE LABEL

MATERIAL:

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=USB Adaptive Power Source ITE/Medical Power supply  
B=P/N: (料号) RR9KZ3000USBCFG2R6B  
C=Model (型号) GTM96605-GEN2-A1-R2  
D=Input (输入) 100-240V~, 50-60Hz, 1.5A

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	Model No. GTM96605-GEN2-A1-R2	
	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

E=Output (輸出)	5V	4.6A
	5.8V	4.6A
	9V	4.4A
	12V	4A
	15V	3.6A
	20V	3A

- AGENCY ONLINE DOCUMENTS <http://www.globtek.info/certs/GTM96605-GEN2/>
- CE EC-Declaration for Medical [Contact GlobTek for more information](#)
- CE EC-Declaration for Industrial/Commercial/ITE [http://globtek.force.com/models/ec\\_declaration?id=a000c00000PIBy9EAH](http://globtek.force.com/models/ec_declaration?id=a000c00000PIBy9EAH)
- CE EC-Declaration for Household [Contact GlobTek for more information](#)
- RoHS/RoHS3 Declaration [https://www.globtek.com/pdf/rohs\\_cert/01t0c000008kwIRAAQ](https://www.globtek.com/pdf/rohs_cert/01t0c000008kwIRAAQ)
- REACH Declaration [https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](https://www.globtek.com/pdf/iso_certificates/REACH.pdf)
- Conflict Minerals Declaration <https://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/a000c00000PIBy9>
- AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GTM96605-GEN2/>



(F1) Class II / Double Insulated



+V: A4, A9, B4, B9,  
GND: A1, A12, B1, B12,  
CC1: A5,  
D+:A6,  
D-:A7

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	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

## PACKAGING

Packing Spec P/N:	Desktop/WPI with Desktop Insert T3, User manual
Box Qty:	20
Gift Box Size (mm):	Egg Crate
Gift Box Color:	None
Master Carton Size (mm):	427 x 405 x 158
Master Carton Cubic Volume (m <sup>3</sup> ):	0.03
Master GW (Kg):	15.6 kg
BLADES INCLUDED:	N/A:
BLADE/CORD INSTALLED:	N/A:
USER MANUAL:	809-PSURKITUSERMANUAL on A4 paper
USER MANUAL WEB LINK:	<a href="https://www.globtek.com/pdf/809-PSURKITUSERMANU...">https://www.globtek.com/pdf/809-PSURKITUSERMANU...</a>

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	Model No. GTM96605-GEN2-A1-R2	
	Part No./Ordering No. RR9KZ3000USBCFG2R6B	Rev C

PACKAGE CONTENTS INCLUDED	INSTALLED
R-NA-3(R)	N
R-SAA-3(R)	N
R-UK-3(R)	N
R-EU-3(R)	N
DESKTOP INSERT	Y

**GlobTek, Inc.**  
 CHINA MANUFACTURING  
 MADE IN CHINA  
 GLOBTEK L/R #  
 GLOBTEK PART #  
 Quantity/Case:  
 Carton # of #

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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