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| GlobTek, Inc.<br>www.globtek.com<br>186 Veterans Drive,<br>Northvale, NJ 07647<br>Tel. (201) 784-1000<br>Fax (201) 784-0111 | Drawing Title: GTM86100-1005-W2, ITE / Medical Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek White, Wall Plug-in, AC Adaptor Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60Hz, N. America NEMA 1-15 Fixed , Output Rating: 10W, 5.0V@2.0A, Output Configuration: 1530 mm, 22/2 Cond, UL 2468, USB Type-C Connector, Ferrite: None, GlobTek White, GT Cord # C29437, Pin Out: +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, 22K to +V D+:A6, D-:A7, Blades/Input Cord: Fixed Blades North American 1-15P, Approvals: CB 60335; RCM; China RoHS; Double Insulation; Level VI; RoHS; VCCI; WEEE; cETLus 60601-1 3rd; EAC; CB 62368; Ukraine; ETL 62368; PSE; LPS 62368; |  |  |
|   | Model No. GTM86100-1005-W2   |  |  |
| Part No./Ordering No. WR9HA2000USBCFMEDR6W  |  |  |  |
| Rev B   |  |  |  |

## REVISION HISTORY

| REV | DESCRIPTION  | SUB   | DATE       | APPROVED |
|-----|--|-------|------------|----------|
| B   | Update pinout to USBC pinout with 22K CC1 resistor | QA    | 02/27/2019 | QA       |
| A   | Initial Release                                    | fclif | 11/13/2018 | 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/>).

The purchaser of this product (Customer) agrees that it is their sole responsibility to determine suitability/fitness of the product described in this specification for their application and to take precautions for protection against any hazards attendant to the handling and use of the product.

### Footnote:

GlobTek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

### Limitation of Use:

GlobTek products are intended for use with commercial, medical, and/or industrial equipment only. GlobTek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of GlobTek Inc.

Contents of this document are subject to change without prior notice.

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|   | Model No. GTM86100-1005-W2   |       |
|   | Part No./Ordering No. WR9HA2000USBCFMEDR6W   | Rev B |

## POWER SUPPLY INFORMATION

|                          |   |
|--------------------------|---|
| TYPE:                    | Wall Plug-in  |
| TECHNOLOGY:              | AC Adaptor Power Supply AC Adaptor  |
| CASE COLOR:              | GlobTek White   |
| NAMEPLATE RATED INPUT:   | 100-240V~, 50-60Hz, 0.3A  |
| INPUT CONFIG:            | N. America NEMA 1-15 Fixed  |
| WATTS:                   | 10.0  |
| VOLTS OUT:               | 5.0   |
| CURRENT OUT (Amps):      | 2.0   |
| BLADE/CORD INCLUDED:     | FBNA2   |
| BLADE/CORD INSTALLED:    | FBNA2   |
| INGRESS PROTECTION:      |   |
| GROUNDING CONFIGURATION: | (F1) Class II / Double Insulated  |
| EFFICIENCY LEVEL:        |   |
| OUTPUT CONFIGURATION:    | 1530 mm, 22/2 Cond, UL 2468, USB Type-C Connector, Ferrite: None, GlobTek White, GT Cord # C29437 |
| OVERMOLDED:              | Yes   |
| OUTPUT CONNECTOR SEX:    | Male  |
| CONNECTOR PIN OUT:       | +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, 22K to +V D+:A6, D-:A7                        |
| LABEL SPECS:             | Standard GT,L-1186  |
| SPECIAL BARCODE LABEL    |   |
| MATERIAL:                |   |
| PACK SPEC:               | Standard WPI, Individually Box, User manual DT  |
| USER MANUAL:             | 809-DESKTOPUSERMANUAL on A4 paper   |

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|  | <p>Part No./Ordering No. WR9HA2000USBCFMEDR6W</p>   |
|  | <p>Rev B</p>  |

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

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## ELECTRICAL SPECIFICATIONS

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 end of a 1 meter USB cordset employing #20 Gauge conductors
04. Line Voltage Regulation: +/- 1% typical measured at the end of a 1 meter USB cordset employing #20 Gauge conductors
05. Output Ripple (Vp-p): 1% or 100 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector
06. Hold-up Time: 5 mS minimum
07. Inrush Current: 30A maximum @ 230Vac input
08. Energy Efficiency: Complies to Efficiency Level VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant

### B) PROTECTION

01. Over-current protection: 110%-140% maximum with auto-recovery function
02. Output Over-Voltage: 110% to 130% of nominal output voltage
03. Short-circuit protection: The adapter shall not be damaged by short the DC output to Ground.

### C) SAFETY

01. Dielectric Withstand Voltage: Primary To Secondary: 4000VAC or 5656VDC for 3 seconds
02. Leakage Current: 50uA maximum, at nominal 240Vac input voltage
03. ESD Immunity per EN61000-4-2, ±8 kV contact, ±15 kV air, Perf Criteria A Standard.

### 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, 8kV Contact Discharge, 15kV air discharge
  - Radiated RF Immunity EN61000-4-3, 3V/m 80-2700MHz, 80% 1KHz AM.
  - EFT/Burst Immunity EN61000-4-4, 2kV/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, NA
  - Voltage Dip Immunity EN61000-4-11, Criteria

### E) OTHER:

01. MTBF: 300,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 50°C ambient temperature
03. Operating Humidity: 20 ~ 85 % RH. non-condensing
05. Storage Temperature: -20°C to 60°C
06. Storage Humidity: 5 ~ 95 % RH. non-condensing
07. Cooling: Natural convection cooling
08. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11364-2014

### F) ENCLOSURE

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

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02. Markings: Label and/or Pad Printed and/or Molded in the case

**F) OPTIONS:**

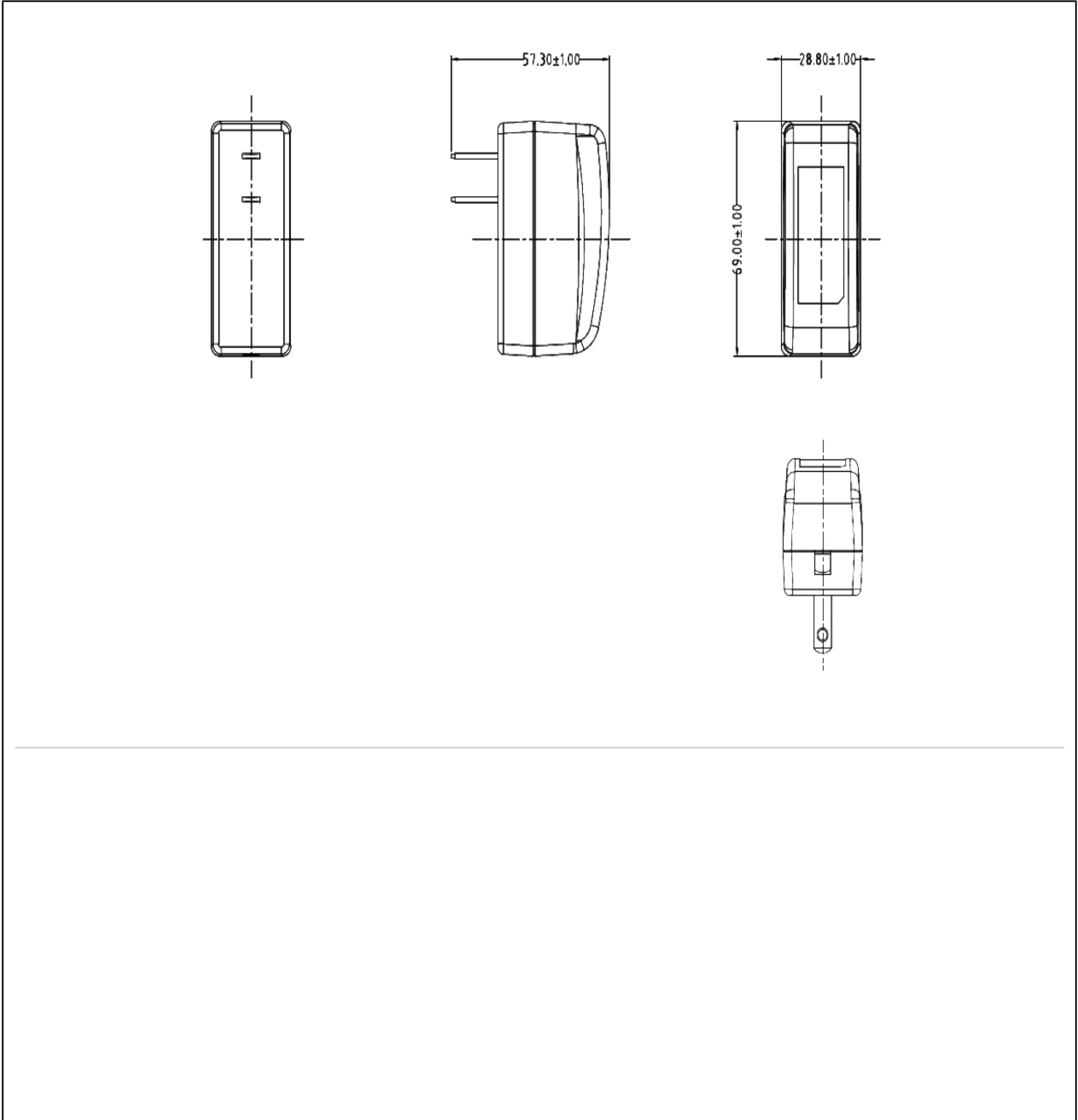
- 01. Green Power On Indicator LED
- 02. NEMA 1-15P or European Schuko 7-16 AC Plug Configuration
- 03. Increased DC Output Voltage (up to 5.4V) to allow for long output cables
- 04. Special International Safety Approvals
- 05. Housing Color, special markings

TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT:

<https://en.globtek.com/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

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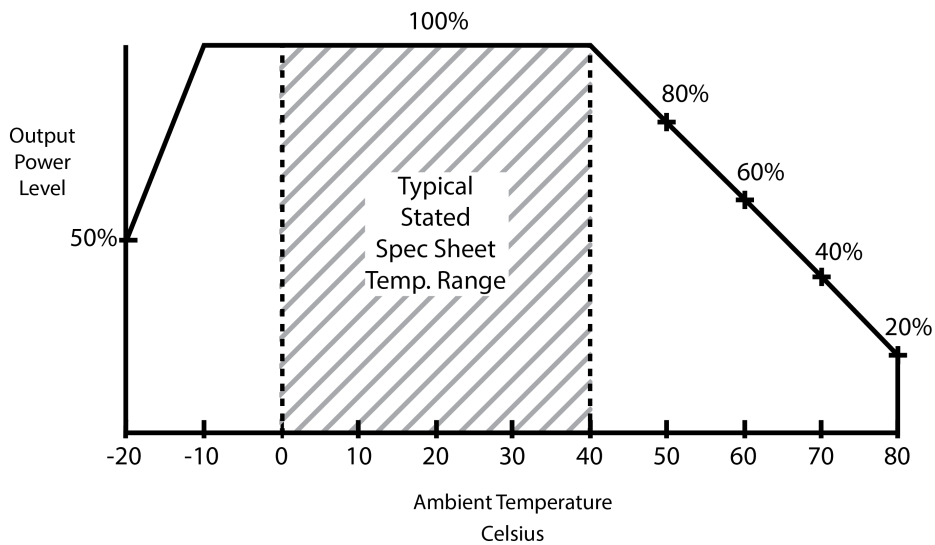


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DERATING CURVE

**Typical External  
Power Supply Derating Curve**

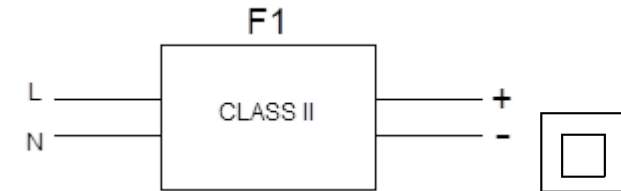
(For Efficiency Level V and Efficiency Level VI Products)



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## INPUT CONFIGURATION

(F1) Class II / Double Insulated



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

Blades/Cord Included:FBNA2:

Blades/Cord Installed:FBNA2:

NEMA 1-15P, North America Blades, Class II 2 Conductors

All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.



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**OUTPUT CORD AND CONNECTOR: USBC31/C29437**

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

|   |   |
|---|---|
| CABLE TYPE                                      | UL 2468                                       |
| CABLE LENGTH (mm)                               | 1530  |
| CABLE TOLERANCE (mm)                            | +150 -0                                       |
| WIRE GAUGE (AWG)                                | 22  |
| CONDUCTORS                                      | 2   |
| HANK DIMENSION (mm)                             | 70 ± 10                                       |
| CABLE / CONNECTOR OVERMOLD COLOR                | GlobTek White                                 |
| 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                            | Male  |
| OVERMOLDED                                      | Yes   |
| OVER MOLD ORIENTATION                           | Straight                                      |
|   | +V: A4, A9, B4, B9,<br>GND: A1, A12, B1, B12, |
| CONNECTOR PIN OUT:                              | CC1: A5, 22K to +V<br>D+:A6,<br>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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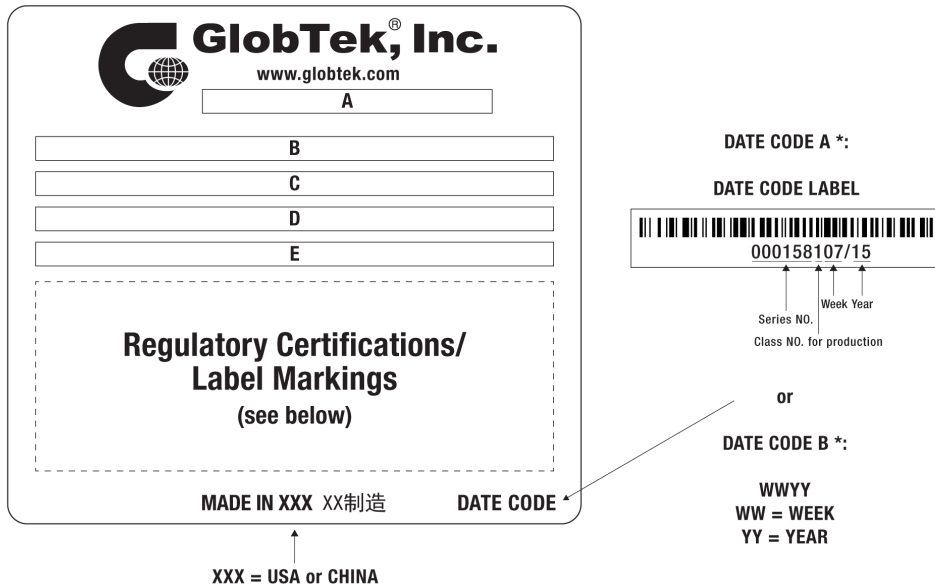
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LABEL:L-1186

|                                 |  |
|---------------------------------|--|
| 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):               | 39.7   |
| LABEL HEIGHT (mm):              | 16.2   |
| 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=ITE / Medical Power Supply  
B=P/N: (料号) WR9HA2000USBCFMEDR6W  
C=Model (型号) GTM86100-1005-W2  
D=Input (输入)100-240V~, 50-60Hz, 0.3A  
E=Output (输出)5.0 V  $\equiv$  2.0 A, 10.0W

|   |  |
|---|--|
| GlobTek, Inc.<br>www.globtek.com<br>186 Veterans Drive,<br>Northvale, NJ 07647<br>Tel. (201) 784-1000<br>Fax (201) 784-0111 | Drawing Title: GTM86100-1005-W2, ITE / Medical Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek White, Wall Plug-in, AC Adaptor Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60Hz, N. America NEMA 1-15 Fixed , Output Rating: 10W, 5.0V@2.0A, Output Configuration: 1530 mm, 22/2 Cond, UL 2468, USB Type-C Connector, Ferrite: None, GlobTek White, GT Cord # C29437, Pin Out: +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, 22K to +V D+:A6, D-:A7, Blades/Input Cord: Fixed Blades North American 1-15P, Approvals: CB 60335; RCM; China RoHS; Double Insulation; Level VI; RoHS; VCCI; WEEE; cETLus 60601-1 3rd; EAC; CB 62368; Ukraine; ETL 62368; PSE; LPS 62368; |
|   | Model No. GTM86100-1005-W2<br>Part No./Ordering No. WR9HA2000USBCFMEDR6W   |

|   |   |
|---|---|
| AGENCY ONLINE DOCUMENTS                         | <a href="http://www.globtek.info/certs/GTM86100/">http://www.globtek.info/certs/GTM86100/</a>   |
| CE EC-Declaration for Medical                   | <a href="http://globtek.force.com/models/ec_declaration_product?id=01t0c000008qCky&amp;m=1">http://globtek.force.com/models/ec_declaration_product?id=01t0c000008qCky&amp;m=1</a>           |
| CE EC-Declaration for Industrial/Commercial/ITE | <a href="http://globtek.force.com/models/ec_declaration_product?id=01t0c000008qCky&amp;i=3">http://globtek.force.com/models/ec_declaration_product?id=01t0c000008qCky&amp;i=3</a>           |
| CE EC-Declaration for Household                 | <a href="#">Contact GlobTek for more information</a>  |
| Morocco SDoC Declaration                        | <a href="https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a000c00000PGXuqEAH">https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a000c00000PGXuqEAH</a> |
| RoHS/RoHS3 Declaration                          | <a href="https://www.globtek.com/pdf/rohs_cert/01t0c000008qCkyAAE">https://www.globtek.com/pdf/rohs_cert/01t0c000008qCkyAAE</a>   |
| REACH Declaration                               | <a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>   |
| Conflict Minerals Declaration                   | <a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>   |

IPXY rating is based on 3rd party testing and customers should check suitability and test system level IPXY rating before ordering.

## Regulatory Certifications/Label Markings

LATEST PRODUCT/MODEL CERTIFICATIONS: <http://en.globtek.com/datasheet/id/a000c00000PGXuq>

AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GTM86100/>



(F1) Class II / Double Insulated



+V: A4, A9, B4, B9,  
GND: A1, A12, B1, B12,

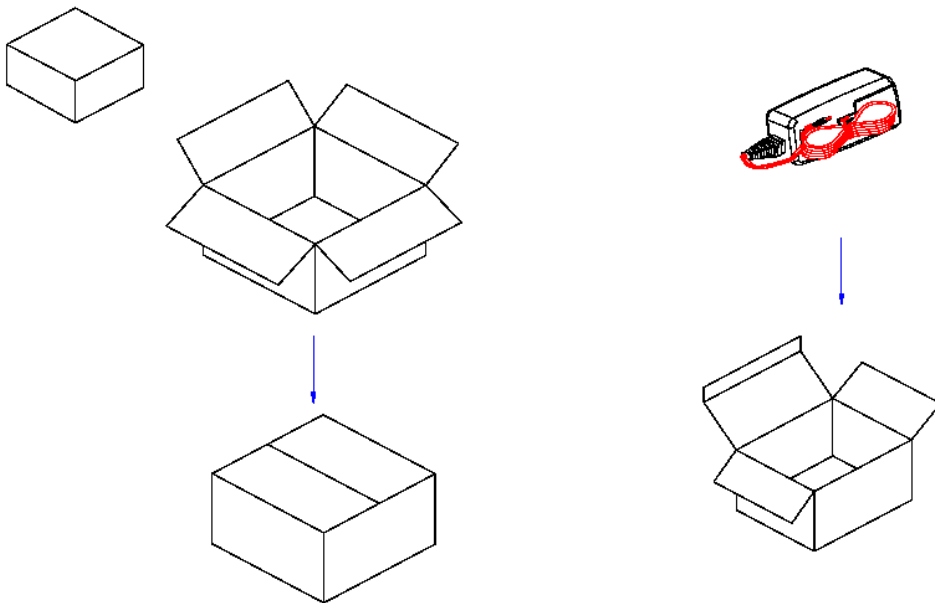
CC1: A5, 22K to +V  
D+:A6,  
D-:A7

|   |   |              |
|---|---|--------------|
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|---|---|--------------|

**PACKAGING**

|                                  |   |
|----------------------------------|---|
| Packing Spec P/N:                | Standard WPI, Individually Box, User manual DT  |
| Box Qty:                         | 120   |
| Gift Box Size (mm):              | 90*48*62  |
| Gift Box Color:                  | White   |
| Master Carton Size (mm):         | 470 x 310 x 284   |
| Master Carton Cubic Volume (m³): | 0.04  |
| Master GW (Kg):                  | 12.0 kg   |
| BLADES INCLUDED:                 | FBNA2:  |
| BLADE/CORD INSTALLED:            | FBNA2:  |
| USER MANUAL:                     | 809-DESKTOPUSERMANUAL on A4 paper   |
| USER MANUAL WEB LINK:            | <a href="https://en.globtek.com/pdf/809-DESKTOPUSERMANUA...">https://en.globtek.com/pdf/809-DESKTOPUSERMANUA...</a> |

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



|  |   |
|--|---|
| <p>GlobTek, Inc.<br/> www.globtek.com<br/> 186 Veterans Drive,<br/> Northvale, NJ 07647<br/> Tel. (201) 784-1000<br/> Fax (201) 784-0111</p> | <p>Drawing Title: GTM86100-1005-W2, ITE / Medical Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek White, Wall Plug-in, AC Adaptor Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60Hz, N. America NEMA 1-15 Fixed , Output Rating: 10W, 5.0V@2.0A, Output Configuration: 1530 mm, 22/2 Cond, UL 2468, USB Type-C Connector, Ferrite: None, GlobTek White, GT Cord # C29437, Pin Out: +V: A4, A9, B4, B9, GND: A1, A12, B1, B12, CC1: A5, 22K to +V D+:A6, D-:A7, Blades/Input Cord: Fixed Blades North American 1-15P, Approvals: CB 60335; RCM; China RoHS; Double Insulation; Level VI; RoHS; VCCI; WEEE; cETLus 60601-1 3rd; EAC; CB 62368; Ukraine; ETL 62368; PSE; LPS 62368;</p> |
|  | <p>Model No. GTM86100-1005-W2</p>   |
|  | <p>Part No./Ordering No. WR9HA2000USBCFMEDR6W</p>   |
|  | <p>Rev B</p>  |

## 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