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

Drawing Title: GTM86100-1005-W2E, ITE / Medical Power Supply, Efficiency Level: VI, Case Color/Style: GlobTek Black, Wall Plug-in, AC Adaptor Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60Hz, Euro Plug Fixed, Output Rating: 10W, 5V@2A, Output Configuration: 1500 mm, 22/2 Cond, UL 2468, Female Barrel 5.5\*2.1\*11mm w/ Spring Clip & Locking Notch or Equal, Ferrite: None, GlobTek Black, GT Cord # C20062, Pin Out: Center Positive (+V), Blades/Input Cord: Fixed Blades European 7/7 2 Conductor, Approvals: CB 60335; CE; China RoHS; Double Insulation; Level VI; RoHS; VCCI; WEEE; S-Mark IEC/EN 60601-1; EAC. CB 62368; Ukraine;

Model No. GTM86100-1005-W2E

Part No./Ordering No. WR9MA2000CCPMFR6B

Rev C

## **REVISION HISTORY**

REV	DESCRIPTION	SUB	DATE	APPROVED
С	Update O/P cord from 20AWG to 22AWG		03/22/2018	QA
В	Update model from GTM86100-1005-W2-USB to GTM86100-1005-W2E		03/05/2018	QA
Α	Initial release		11/20/2017	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: Wall Plug-in

TECHNOLOGY: AC Adaptor Power Supply AC Adaptor

CASE COLOR: GlobTek Black

100-240V~, 50-60Hz, 0.3A NAMEPLATE RATED INPUT:

INPUT CONFIG: Euro Plug Fixed

WATTS: 10.0 VOLTS OUT: 5 CURRENT OUT (Amps): 2 BLADE/CORD INCLUDED: FBEuro2 BLADE/CORD INSTALLED: FBEuro2

**INGRESS PROTECTION:** 

GROUNDING CONFIGURATION: (F1) Class II / Double Insulated

**EFFICIENCY LEVEL:** 

1500 mm, 22/2 Cond, UL 2468, Female Barrel 5.5\*2.1\*11mm w/ Spring Clip & Locking Notch or Equal, **OUTPUT CONFIGURATION:** 

Ferrite: None, GlobTek Black, GT Cord # C20062

CONNECTOR PIN OUT: Center Positive (+V) LABEL SPECS: Standard GT,L-1186

SPECIAL BARCODE LABEL

MATERIAL:

PACK SPEC: Standard DT, Individually Box, GT User Manual **USER MANUAL:** 809-DESKTOPUSERMANUAL 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.

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Model No. GTM86100-1005-W2E

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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): 100 mVpp max, measured at the end of a 1 meter USB cordset employing #20 Gauge conductors. 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: 4A maximum with auto-recovery function
- 02. Over-voltage protection: 10VDC maximum with zener clamp
- 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

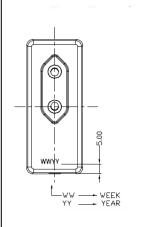
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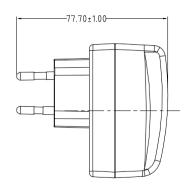
Model No. GTM86100-1005-W2E

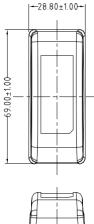
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- 02. Markings: Label and/or Pad Printed and/or Molded in the case
- F) OPTIONS:
- 01. Green Power On Indicator LED
- 02. NEMA 1-15P or European Schuko 7-16 AC Plug Configuration
- 03. Increased DC Output Voltage (up to 5.4V) to allow for long output cables
- 04. Special International Safety Approvals
- 05. Housing Color, special markings









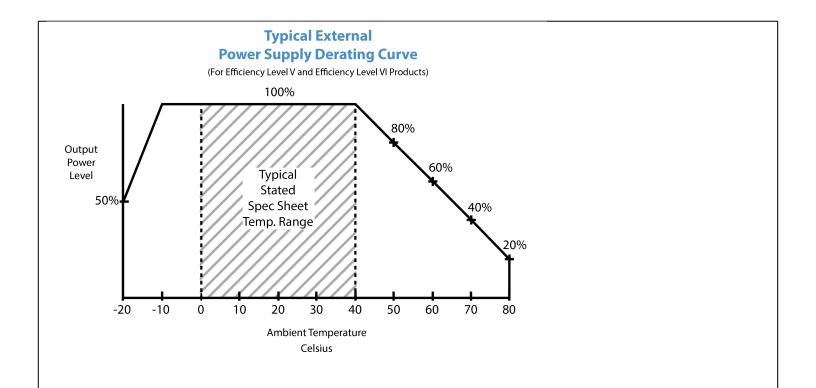
**DERATING CURVE** 

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#### INPUT CONFIGURATION

(F1) Class II / Double Insulated



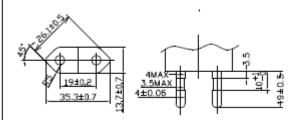
Alternate grounding configurations available upon request.

Blades/Cord Included:FBEuro2:

Blades/Cord Installed:FBEuro2:

European CEE 7/16 configuration: Europlug 2 PIN

The prongs of the Europlug are 19 mm long. They consist of a 9 mm long conductive tip of 4 mm diameter with a rounded ending, followed by a 10 mm long flexible insulated shaft of not more than 3.8 mm diameter. The two prongs are not exactly parallel and converge slightly; their centres are 19 mm apart at the tip and 18.6 mm apart at the base. The elasticity of the converging prongs provides sufficient contact force for the Europlug's current rating with a variety of socket-hole arrangements. The entire plug is 35.3 mm wide and 13.7 mm high, and must not exceed these dimensions within 18 mm behind its front plane (this allows for the recesses on many European socket types). The left and right side of the plug are formed by surfaces that are at 45° relative to the horizontal plan.



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**OUTPUT CORD AND CONNECTOR:** CL1/C20062

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

**CABLE TYPE** UL 2468 CABLE LENGTH (mm) 1500 +150-0 CABLE TOLERANCE (mm) WIRE GAUGE (AWG) 22 **CONDUCTORS** 2 HANK DIMENSION (mm) 80 ± 10

CABLE / CONNECTOR OVERMOLD COLOR GlobTek Black

FERRITE TYPE / DIMENSION None FERRITE # OF TURNS(Definition) 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

**OUTPUT CONNECTOR SEX** 

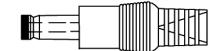
**OVERMOLDED** 

OVER MOLD ORIENTATION Straight

CONNECTOR PIN OUT: Center Positive (+V)

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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LABEL:L-1186

LABEL P/N: Standard GT

Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in MATERIAL:

BACKGROUND COLOR: Black if housing is Black, White or Silver if housing is White or Gray.

White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and TEXT COLOR:

Housing is White or Gray

LABEL WIDTH (mm): 37.0 LABEL HEIGHT (mm): 19.0

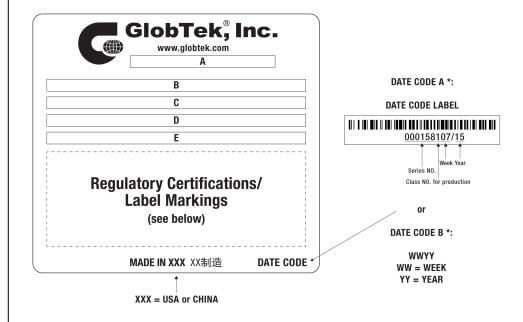
SPECIAL BARCODE LABEL

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) WR9MA2000CCPMFR6B C=Model (型号) GTM86100-1005-W2E D=Input (输入) 100-240V~, 50-60Hz, 0.3A E=Output (输出)5 V === 2 A, 10.0W

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

CE EC-Declaration for Medical http://globtek.force.com/models/ec\_declaration?id=a0O0c00000PGY55EAH CE EC-Declaration for Industrial/Commercial/ITE http://globtek.force.com/models/ec\_declaration?id=a0O0c00000PGY55EAH

CE EC-Declaration for Household Contact GlobTek for more information

https://www.globtek.com/pdf/rohs\_cert/01t0c000006JBx9AAG RoHS/RoHS3 Declaration https://www.globtek.com/pdf/iso\_certificates/REACH.pdf **REACH Declaration 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/a0O0c00000PGY55

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

(F1) Class II / Double Insulated

O ← ⊕ Center Positive (+V)

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## **PACKAGING**

Packing Spec P/N: Standard DT, Individually Box, GT User Manual

Box Qty:

Gift Box Size (mm): 90\*48\*82 Gift Box Color: White

Master Carton

470 x 310 x 278 Size (mm):

Master Carton Cubic

Volume (m³):

0.04

Master GW (Kg): 12.0 kg **BLADES INCLUDED:** FBEuro2: BLADE/CORD

FBEuro2: INSTALLED:

**USER MANUAL:** 809-DESKTOPUSERMANUAL on A4 paper

**USER MANUAL WEB** 

https://en.globtek.com/pdf/809-DESKTOPUSERMANUA... LINK:

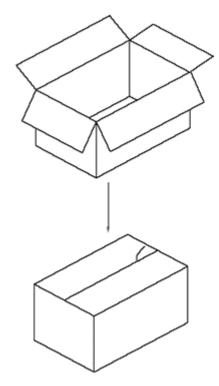
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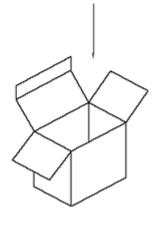
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If specific packaging is required, this section must specify all requirements and note "no exceptions". If this section does not specify packaging, it is subject to change without notice at GlobTek's discretion







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#### INSTRUCTIONS TO THE OEM SYSTEMS ENGINEER

It is the responsibility of the OEM systems engineer to provide the end system user instructions and warnings for the use of this product in the end system.

If an input cord is required for this product, AC Mains voltage should be provided to the power supply by a power supply cord approved to the national standards of the country in which it will be used.

This power supply is not designed to be repaired. No serviceable parts inside. A blown internal fuse is an indication of catastrophic failure of circuit component(s). If a Failure Analysis is required for a failed power supply/battery charger, please return the damaged unit to Globtek for an accurate determination of the root cause of the failure.

EMC Compliance of the complete OEM product, including the GlobTek power supply/battery charger needs to be verified by the OEM systems engineer.

# INSTRUCTION SHEET

N/A