

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM86100-10VV-W2B-USB

April 15, 2021

GTM86100-10VV-W2B-USB

Information

| | |
|-------------------------------|---|
| Model Number | GTM86100-10VV-W2B-USB |
| Description | GTM86100-10VV-W2B-USB, ICT / ITE / Medical Power Supply, Wall Plug-in, AC/DC Switching Adapter with USB Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, The Brazilian NBR 14136:2002 is standard for Brazilian plugs and receptacle, Output Rating: 10 Watts, Power rating with convection cooling (W) , 5-5.2V in 0.1V increments, Approvals: CB 60335; CE; China RoHS; Double Insulation; Level VI; RoHS; VCCI; WEEE; EAC; CB 62368; |
| Model Picture | . |
| Agency Documents | http://www.globtek.info/certs/GTM86100/ |
| CE EC-Declaration | https://www.globtek.com/pdf/ec_declaration/a0O0c00000PH1q9EAD |
| RoHS/RoHS2 Declaration | https://www.globtek.com/pdf/rohs_cert/a0O0c00000PH1q9EAD |
| REACH Declaration | https://www.globtek.com/pdf/iso_certificates/REACH.pdf |
| Conflict Minerals Declaration | https://www.globtek.com/pdf/conflict-minerals.pdf |

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MODEL PARAMETERS

| | |
|--------------------|---|
| Type | Wall Plug-in |
| Technology | AC/DC Switching Adapter with USB Power Supply AC Adaptor |
| Category | ICT / ITE / Medical Power Supply |
| Input Voltage | 100-240V~, 50-60Hz |
| I/P Amps (A) | 0.3A |
| Wattage (W) | 10.0 |
| Vout Range (V) | 5-5.2 |
| Efficiency Level | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | |
| Size (mm) | 69.6*24.0*39.0 +/-1 |

PROPRIETARY INFORMATION

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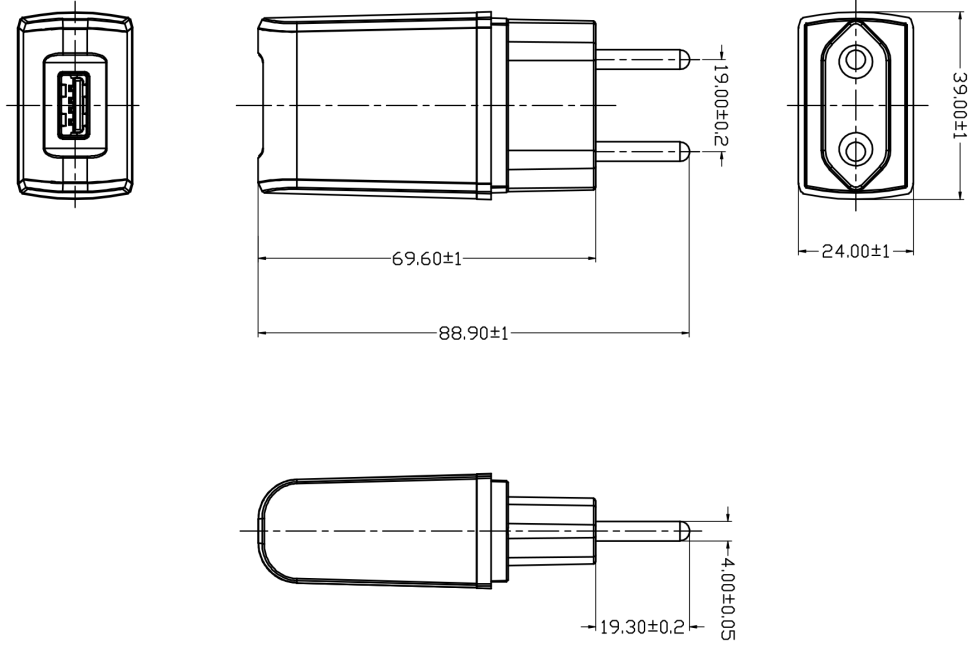
<https://en.globtek.com/datasheet/id/a000c00000PH1q9>

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ENCLOSURE



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RATING TABLE

| Model Number | Voltage | Amps(A) | Watts(W) | RFQ |
|-----------------------|---------|---------|----------|---------------------|
| GTM86100-1005-W2B-USB | 5 V | 2 | 10.00 | RFQ |

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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

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F) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Markings: Label and/or Pad Printed and/or Molded in the case

F) OPTIONS:

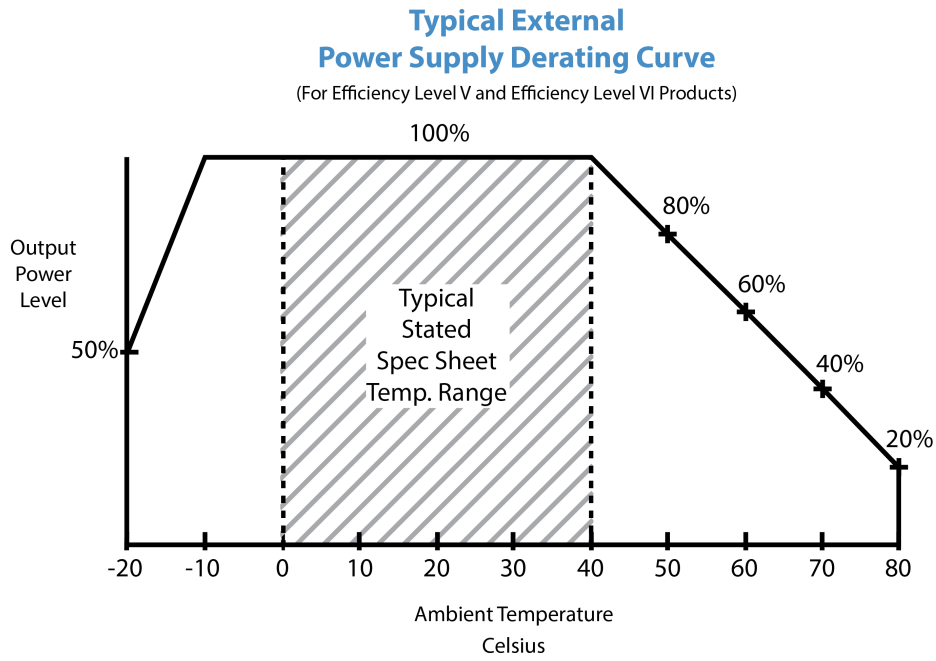
01. Green Power On Indicator LED
 02. NEMA 1-15P or European Schuko 7-16 AC Plug Configuration
 03. Increased DC Output Voltage (up to 5.4V) to allow for long output cables
 04. Special International Safety Approvals
 05. Housing Color, special markings
-

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DERATING CURVE



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INPUT CONFIGURATION

Description The Brazilian NBR 14136:2002 is standard for Brazilian plugs and receptacle

This standard is based on the international IEC 60906-1 standard, developed to encourage countries to adopt one plug and receptacle for global use. The standard does not include a medical grade plug. Brazil uses 110-220 Volts and 60 Hz.

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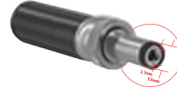
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OUTPUT CONFIGURATION

Common output connector options:


 L Type (Coaxial
5.5x2.5mm plug)

 C Type (Coaxial
5.5x2.1mm plug)

 K Type (Coaxial
3.5x1.3mm plug)

 LL Type (5.5x2.5mm
Locking 760k type)

 CL Type (5.5x2.1mm
Locking S761k type)

 ML2 Type (Molex
housing 43025-0200)

 YL3 Type
(KPPX-3P)


YL4 Type (KPPX-4P)


 EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)

 MSB Type (Micro
USB)

 USBC Type (USB
Type C)

 Inquire for custom
design

 For a comprehensive list of options, [click here](#)








Contact GlobTek for your specific requirements or custom solutions.

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Approvals

| Logo | Description |
|--|---|
| No Logo Applicable | IEC 60335-1:2010+A1+A2 |
| No Logo Applicable | CB for IEC 62368-1:2014 (Second Edition) |
|  | CE Certification |
|  | CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php |
| Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1 | Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1 |
|  | |
|  | Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration |
|  | Indoor Use Only - Mark is on the label or Molded in the case |
| EFFICIENCY LEVEL  | Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe) |
| RoHS | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf |
|  | Japan: Voluntary Control Council for Interference (VCCI) |
| | WEEE: Complies with EU 2012/19/EU (|

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|---|---|
|  | <p>http://ec.europa.eu/environment/waste/weee/index_en.htm Mark is on the label or Molded in the case</p> |
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