

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

Model:GTM86100-10VV-W2

May 2, 2024

## GTM86100-10VV-W2

### Information

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number | GTM86100-10VV-W2                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description  | GTM86100-10VV-W2, ICT / ITE / Medical Power Supply, Wall Plug-in, AC Adaptor Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, NEMA 1-15P, North America Blades, Class II 2 Conductors, Output Rating: 10 Watts, Power rating with convection cooling (W) , 5-5.2V in 0.1V increments, Approvals: CB 60335; 2MOPP; China RoHS; Double Insulation; Level VI; RoHS; VCCI; WEEE; cETLus 60601-1 3rd; EAC; CB 62368; Ukraine; ETL 62368; Conforms to 62368-1; PSE; LPS 62368; IP22; |

### Model Picture



|                               |                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Documents              | <a href="http://www.globtek.info/certs/GTM86100/">http://www.globtek.info/certs/GTM86100/</a>                                             |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O0c00000PGXuqEAH">https://www.globtek.com/pdf/ec_declaration/a0O0c00000PGXuqEAH</a> |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O0c00000PGXuqEAH">https://www.globtek.com/pdf/rohs_cert/a0O0c00000PGXuqEAH</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>                         |

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**MODEL PARAMETERS**

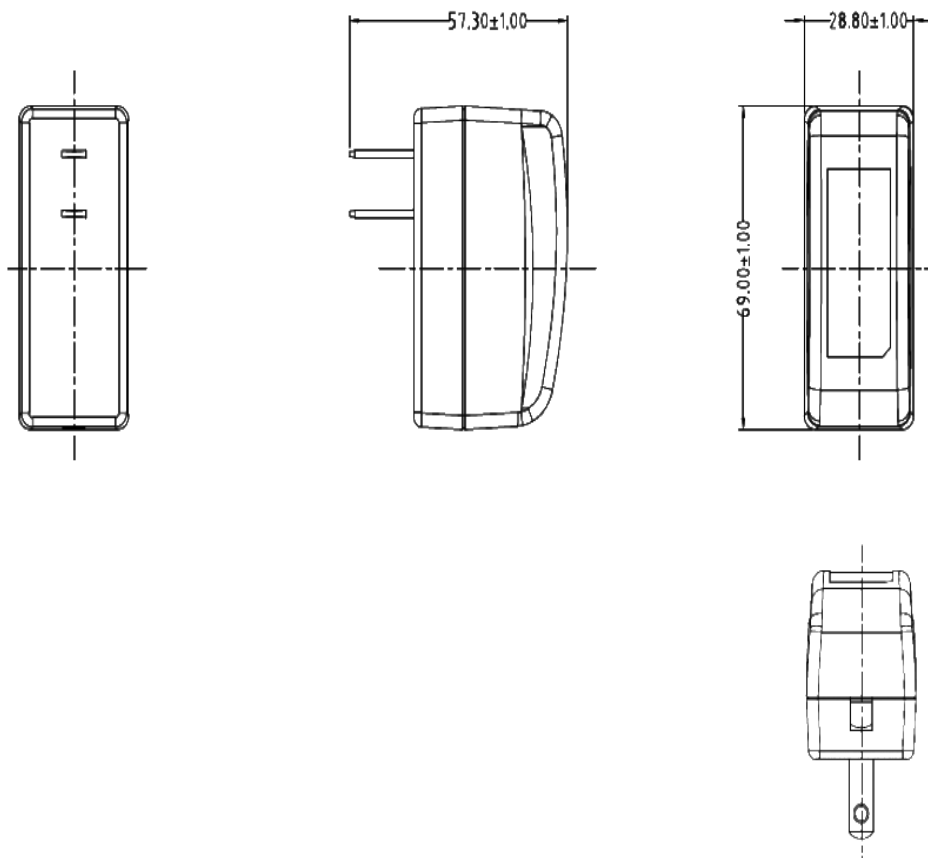
|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Type               | Wall Plug-in                                                        |
| Technology         | AC Adaptor 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 | IP22                                                                |
| Size (mm)          | 69*28.8*40.3                                                        |

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## ENCLOSURE



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## RATING TABLE

| Model Number       | Voltage | Amps(A) | Watts(W) | RFQ                 |
|--------------------|---------|---------|----------|---------------------|
| GTM86100-1005-W2   | 5 V     | 2       | 10.00    | <a href="#">RFQ</a> |
| GTM86100-1005.2-W2 | 5.20 V  | 1.92    | 9.98     | <a href="#">RFQ</a> |

## 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%
04. Line Voltage Regulation: +/- 1%
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

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

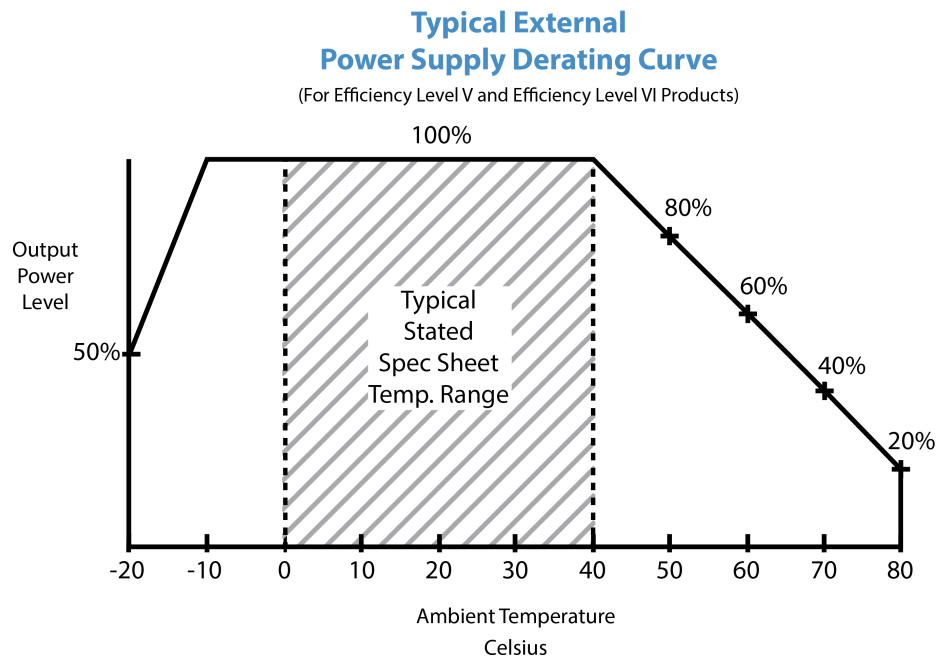
G) OPTIONS:

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 | 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 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                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |                                                                                                                                                                                                                                                                |
| 2MOPP                                                                               | 2 x MOPP (Means of Patient Protection) marked with 2MOPP near model name                                                                                                                                                                                       |
| No Logo Applicable                                                                  | IEC 60335-1:2010+A1+A2                                                                                                                                                                                                                                         |
| No Logo Applicable                                                                  | CB for IEC 62368-1:2014 (Second Edition)                                                                                                                                                                                                                       |
|   | Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2]<br>Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]            |
|  | AAMI ES60601-1 Issued: 2012/08/20 Medical Electrical Equipment - Part 1:<br>CAN/CSA-C22.2 No.60601-1:14, Third Edition Issued: 2014/03/01 - Medical Electrical Equipment - Part 1:<br>IEC 60601-1-11 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip.- Part 1-11: |
|  | CHINA SJ/T 11364-2014, China RoHS Chart:<br><a href="http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf</a>                    |
| Conforms to UL STD. 62368-1<br>Certified to CSA STD C22.2 NO.62368-1                | Conforms to UL STD. 62368-1<br>Certified to CSA STD C22.2 NO.62368-1                                                                                                                                                                                           |
|  |                                                                                                                                                                                                                                                                |
|  | Declaration ДС № EAЭС N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan <a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>       |
|  | Indoor Use Only - Mark is on the label or Molded in the case                                                                                                                                                                                                   |

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|                                                                                                    |                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP22                                                                                               | Ingress Protection: IP22 to IEC 60529:1989+A1:1999+A2:2013 Protected against solids objects over 12mm and Protected against vertically (and up to 15°) falling drops of water                                                                                   |
| <br>GlobTek, Inc. | JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H25,[15V or less]). Please reference the following website for guidelines on PSE regulations:<br><a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a> |
| EFFICIENCY LEVEL VI                                                                                | 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)                                                      |
| LPS                                                                                                | Limited Power Source 62368                                                                                                                                                                                                                                      |
| RoHS                                                                                               | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3)<br><a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                                                                   |
| <br>10276         | Ukraine UKRSepro (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )                                                                                                    |
|                 | Japan: Voluntary Control Council for Interference (VCCI)                                                                                                                                                                                                        |
|                 | WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> )<br>Mark is on the label or Molded in the case                                               |