

Model:GTM96600-60VV-P2(SR with NA Plug 2 pin)

May 9, 2025

## GTM96600-60VV-P2(SR with NA Plug 2 pin)

### Information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                  | GTM96600-60VV-P2(SR with NA Plug 2 pin)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Description                   | GTM96600-60VV-P2(SR with NA Plug 2 pin), ICT / ITE / Medical Power Supply/Class 2/Household Power Supply, 60601-1-4th Ed. , Potted/Encapsulated in plastic housing, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, North America Blades Class II, (2) Conductors, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: Double Insulation; CE; CB 60950; 230V CoC Tier 2; PSE; PSE; PSE; Level VI; LPS 60950; Ukraine; VCCI; WEEE; IP68; CB 60601-1; cETLus 60601-1; cETLus UL1310 (36V only); CB 62368; EAC; RoHS; China RoHS; |
| Model Picture                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Agency Documents              | <a href="http://www.globtek.info/certs/GTM96600-TZ/">http://www.globtek.info/certs/GTM96600-TZ/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O0c00000PIA97EAH">https://www.globtek.com/pdf/ec_declaration/a0O0c00000PIA97EAH</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O0c00000PIA97EAH">https://www.globtek.com/pdf/rohs_cert/a0O0c00000PIA97EAH</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               | Potted/Encapsulated in plastic housing                              |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | ICT / ITE / Medical Power Supply/Class 2/Household Power Supply     |
| Input Voltage      | 100-240V~, 50-60 Hz                                                 |
| I/P Amps (A)       | 1.5A                                                                |
| Wattage (W)        | 60.0                                                                |
| Vout Range (V)     | 5-48                                                                |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | IP68                                                                |
| Size (mm)          | 114.81*57.11*39.0                                                   |

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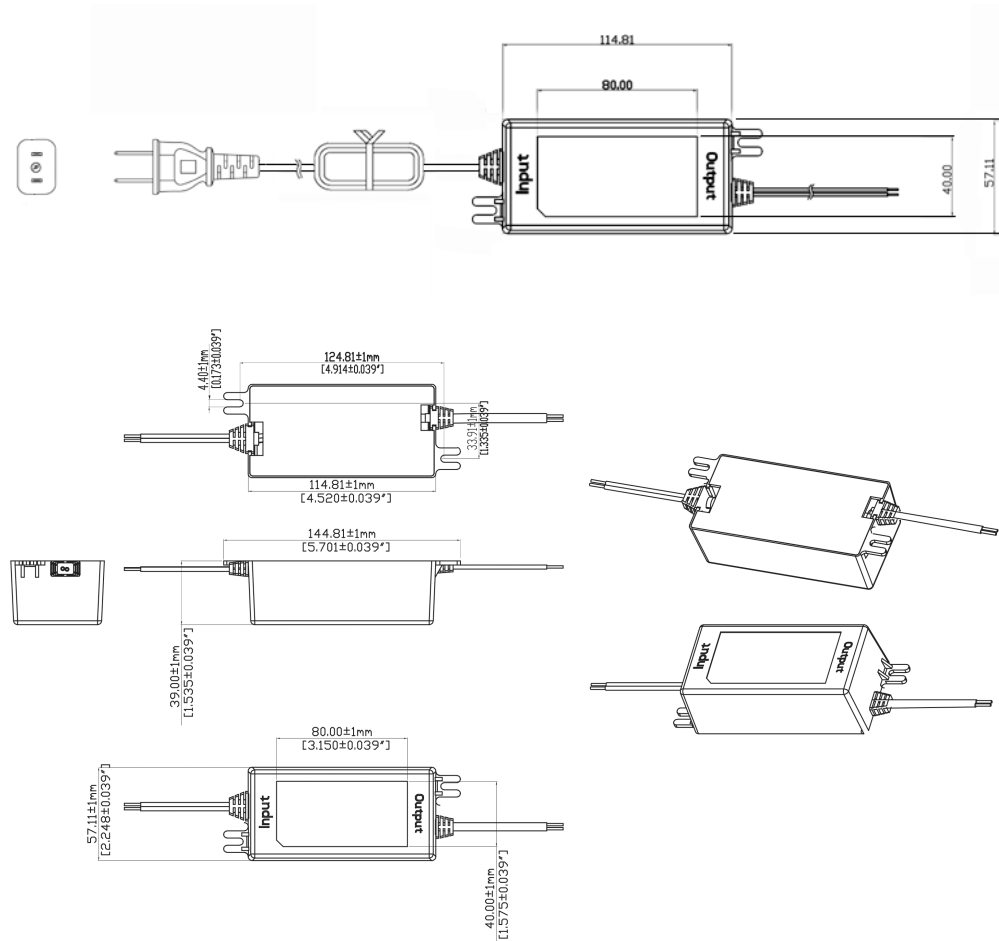
<https://www.globtek.com/ds/hPQpYQz2guD/rmAwxEi3uJ.html#datasheet>

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## ENCLOSURE



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## RATING TABLE

| Model Number     | Voltage | Amps(A) | Watts(W) | RFQ                 |
|------------------|---------|---------|----------|---------------------|
| GTM96600-2305-P2 | 5 V     | 4.5     | 22.50    | <a href="#">RFQ</a> |
| GTM96600-6036-P2 | 36 V    | 1.66    | 59.76    | <a href="#">RFQ</a> |
| GTM96600-6048-P2 | 48 V    | 1.25    | 60.00    | <a href="#">RFQ</a> |

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## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
  - 90-264 Vac range @ 100% of rated load current
  - 85-264 Vac range @ 85% of rated load current
  - 110-370 VDC range @ 100% of rated load current
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 0.5% typical measured at full load
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. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 40% to 70% step load
07. Turn-ON Delay: 1 second maximum @ full load, nominal line
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A/60A maximum cold start @ 115/230Vac input
10. Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
11. No Load Standby Power: <0.075 W @ 230Vac for <= 49W output power rating,  
<0.15W @ 230Vac for > 49W output power rating

### B) PROTECTION

01. Input Protection: Input line fusing and 300Vac MOV
02. Short Circuit/ Overload: Electronically Protected unit will auto recover upon removal of fault
  - Output Current Limit: 110% to 160% of rated output current
  - (upper end of current limit range is determined by normal output power rating, not derated output power level)
03. Output Over-Voltage: 110% to 130% of nominal output voltage

### C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac or 5656Vdc from input to output, On Class I models, 3000Vac or 4242Vdc from input to earth
02. Earth Leakage Current: Class I models < 300uA, N/A for Class II models
03. Touch Current: Class I models < 20uA, Class II models < 85uA, F2 Models < 20uA
04. Output Isolation Options:
  - a) C8 or C18 Inlet, Class II
  - b) C6 or C14 Inlet, Class II FE, Output Isolated from Earth contact
  - c) C6 or C14 Inlet, Class I, Output negative directly attached to Earth contact
05. Earth Continuity Test: < 0.1 Ohm between Earth Pin at AC input and PCB termination point (Class I models only)
06. Means of Protection: 2 x MOPP
07. Compliant Standards: See listings at end of this drawing for specifics

### 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

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## 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, 3Vrms, 80% 1KHz AM

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

Voltage Dip Immunity EN61000-4-11, Criteria

## E) OTHER:

01. MTBF: 1,000,000 Hours @ 40°C ambient temperature, Full Load

02. GTM96600 Family: -20°C to 40°C ambient temperature with full load

Regarding Operating Temperature,

a- See below derating table for output power capability at alternate temperature

b- Extended low end temperature range available as custom option

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

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

05. Operating Altitude: 5000 Meters

06. Ingress Protection: IP40 standard, IP52 available as special option

07. ROHS: Compliant with latest regulations, see approvals section below

## 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 Changeable Blade Wall Plug-in) Class I or Class II input

## G) SPECIAL OPTIONS

01. Cost reduction, removal of LED

02. Custom Cordsets, various cordage types, and connector types

03. Custom Markings

04. Short term Output Surge Capability

05. Reduced Leakage Current versions

06. Tightened output voltage tolerance

07. Reduced output ripple level

08. Reduced output power rating marking

09. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance

10. Low Temperature operation, down to -40°C

11. Special Housing Colors and Cordset Colors

## H) OUTPUT CONNECTORS

Several output connector options are available with various output current ratings.

GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our

10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.

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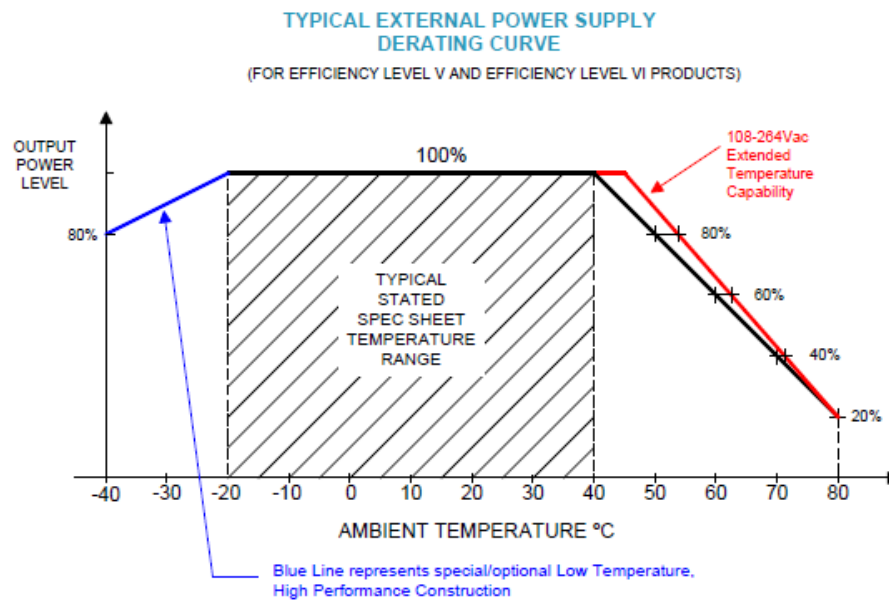
Please visit <https://en.globtek.com/news/high-current-coaxial-barrel-plug-jacks-for-high-wattage-power-supplies> for a real time product offering of mating connectors.

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## DERATING CURVE



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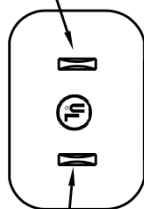
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## INPUT CONFIGURATION

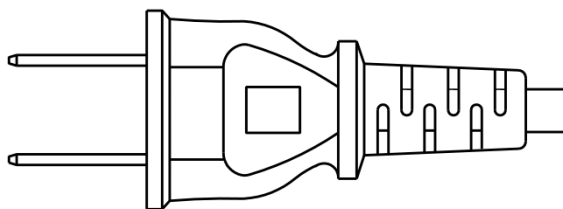
Description

North America Blades Class II, (2) Conductors

WHITE



BLACK



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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                                                                  | EU 230V CoC Tier 2, 278/2009, Mar 2014                                                                                                                                                                                                                   |
| No Logo Applicable                                                                  | CB for IEC 60601-1:2005+A1                                                                                                                                                                                                                               |
| No Logo Applicable                                                                  | CB for IEC 60950-1:2005+A1+A2                                                                                                                                                                                                                            |
| No Logo Applicable                                                                  | CB for IEC 62368-1:2014 (Second Edition)                                                                                                                                                                                                                 |
|  | Test standard:<br>EN 55032:2012+AC:2013<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55024:2010<br>EN 60601-1-2:2015                                                                                                                                  |
|  | Conforms to UL Std. 1310 CLASS 2 Power Units Cert. to CSA Std. C22.2 NO. 223 (36 volts only)                                                                                                                                                             |
|  | 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>              |
|  |                                                                                                                                                                                                                                                          |
|  | 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> |
|                                                                                     |                                                                                                                                                                                                                                                          |

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|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [AAMI ES60601-1:2005 +A1]                                                                                                                            |
| IP68                                                                                                        | Ingress Protection: ?IP68 to IEC60529:2001 Totally dust tight and Protected against long periods of immersion under pressure                                                                                                                                |
| <br>GlobTek, Inc.          | JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a>    |
| <br>GlobTek, Inc.          | JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a>    |
| <br>GlobTek, Inc.         | JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a> |
| <b>EFFICIENCY LEVEL</b>  | 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 60950                                                                                                                                                                                                                                  |
| RoHS                                                                                                        | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <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> ) Mark is on the label or Molded in the case                                              |