

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

Model:GTM96300-36VV-P2 (SR with Fixed USA Nema 1-15P 2 pin input cord)

May 11, 2025

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Information

Model Number	GTM96300-36VV-P2 (SR with Fixed USA Nema 1-15P 2 pin input cord)
Description	GTM96300-36VV-P2 (SR with Fixed USA Nema 1-15P 2 pin input cord), Medical/ICT/ITE/Household use 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: 36 Watts, Power rating with convection cooling (W) , 5-54V in 0.1V increments, Approvals: Conforms to 62368-1; Fuse 60335; China RoHS; EAC; Book 60601; Double Insulation; Level V; WEEE;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GOST%20Certificate%20and%20EAC%20declaration%20for%20all%20Models/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a003a00000Lx4CjEAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a003a00000Lx4CjEAJ
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	Potted/Encapsulated in plastic housing
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical/ICT/ITE/Household use Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1A
Wattage (W)	36.0
Vout Range (V)	5-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP68
Size (mm)	

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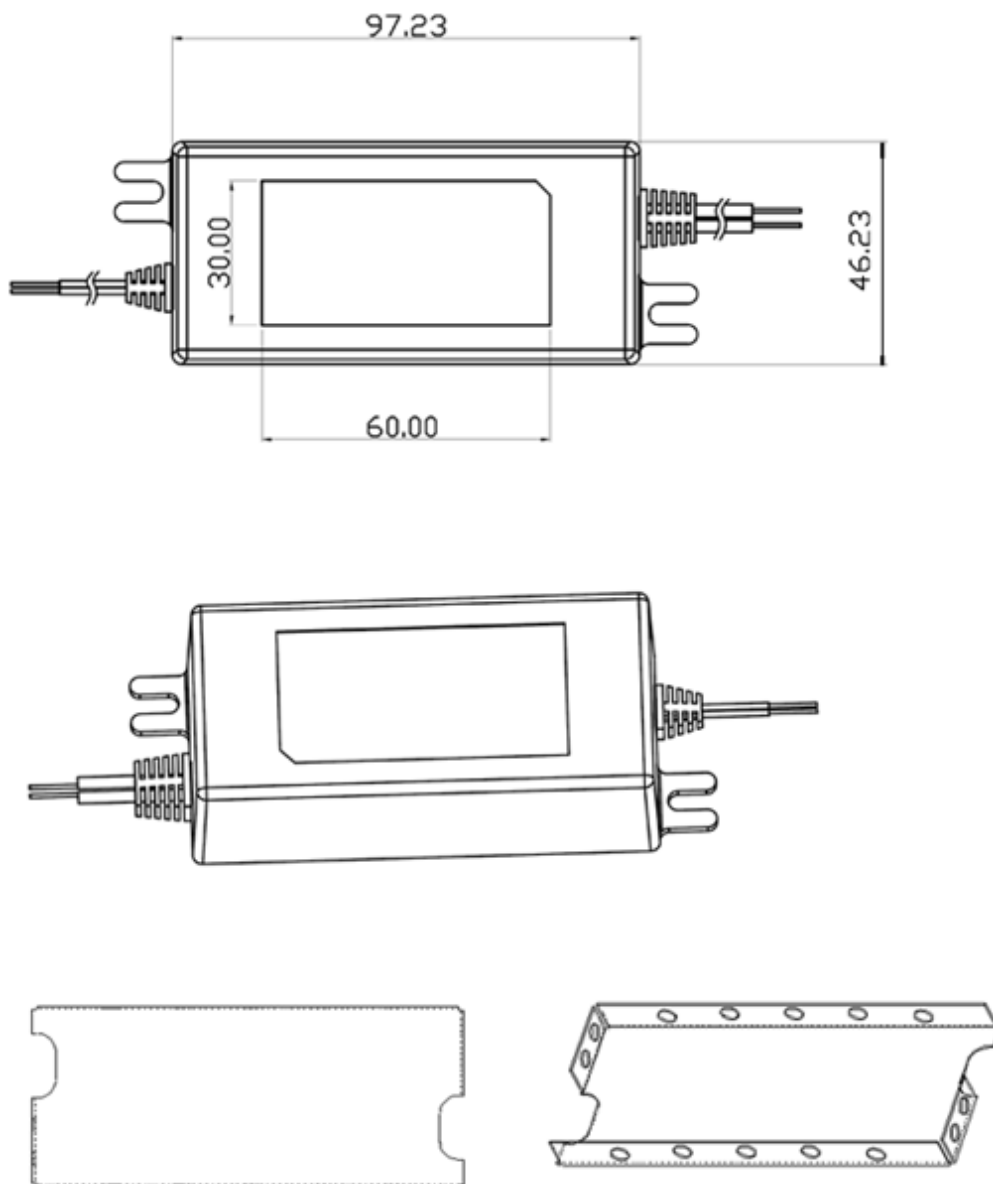
<https://www.globtek.com/ds/kN66qkFkAb9/djKzW7P3f4r.html#datasheet>

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
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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 0.1uF ceramic capacitor in parallel with a low impedance 47uF electrolytic capacitor connected at the end of the output connector
06. Turn-On Overshoot + Transient Response: 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
12. Green LED power indicator

B) PROTECTION

01. Input Protection: Input line fusing and 300Vac MOV
02. Short Circuit/ Overload: Electronically protected; output 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, primary-to-secondary
 - 1768VAC or 2500VDC, primary-to-earth (3-conductor input models only)
 - 1500VAC or 2121VDC, secondary-to-earth (F2 configuration only)
02. Earth Leakage Current:
 - 300µA max. NC & SFC (N/A for 2-conductor input models), tested per IEC60601-1
03. Touch Current: Class I models < 20uA, Class II models < 75uA, tested per IEC60601-1
04. Earth Continuity Test: < 0.1 Ohm between earth pin at AC input and PCB termination point (Class I models only)
05. Means of Protection:
 - 2 x MOPP primary-to-secondary
 - 1 x MOPP primary-to-earth (3-conductor input models only)
 - 1 x MOPP secondary-to-earth (F2 configuration only)
06. Compliant Standards: See listing at end of this specification for specifics
07. 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

D) EMC

- EN 60601-1-2, 4th edition
- Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4, CISPR11 and CISPR22
- 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
 - Voltage Fluctuations/Flicker EN61000-3-3

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<https://www.globtek.com/ds/kN66qkFkAb9/djKzW7P3f4r.html#datasheet>

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Immunity, per EN 55035, 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, Performance Criteria B/C

E) OTHER:

01. MTBF: 1,000,000 Hours @ 40°C ambient temperature, full load

02. GTM96300 Family: -10°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. 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 reliability PCB laminate with plated through holes for IPC610 Class 2 compliance

10. Special housing colors and cordset colors

11. Quasi constant current output, for battery charger applications

12. Back EMF applications, custom solutions. For unusual motor load aps and other high inductance reverse energy flow requirements

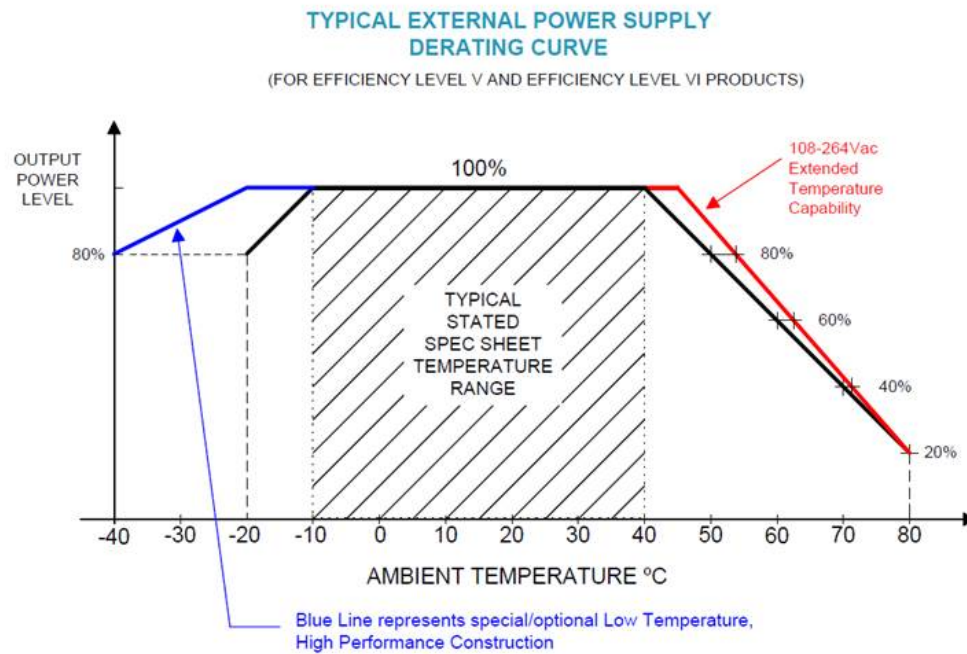
13. Improved ingress protection rating

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DERATING CURVE



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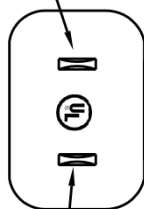
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INPUT CONFIGURATION

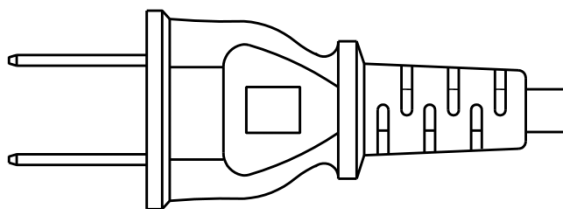
Description

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
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
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
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)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case