May 11, 2025

Model:GTM96900P90VV.V-P3



GTM96900P90VV.V-P3	
Information	
Model Number	GTM96900P90VV.V-P3
Description	GTM96900P90VV.V-P3, ICT / ITE / Medical Power Supply, Potted/Encapsulated in plastic housing, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, See "Blade/Cord Installed" section. Contact GlobTek for customization requests such as Molded country plugs, Molex or TE connectors, or IEC connectors mounted on any type of cable in any customer specified lengths., Output Rating: 90 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: IP68; CB 61347; CB 62368; IRAM; UKCA; Conforms to 62368-1; S-Mark; Morocco;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM96900P90VV.V/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O0c00000PzQpoEAF
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O0c00000PzQpoEAF
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf



Model:GTM96900P90VV.V-P3

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Туре	Potted/Encapsulated in plastic housing
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0
Wattage (W)	90.0
Vout Range (V)	12-54
Efficiency Level	VI
Ingress Protection	IP68
Size (mm)	178.0*76.0*39.5 +/- 1.0 mm



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May 11, 2025 **ENCLOSURE**





RATING TABLE

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Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM96900P8412-P3Z	12 V	7	84.00	RFQ
GTM96900P8412-P3	12 V	7	84.00	RFQ
GTM96900P9024-P3	24 V	3.75	90.00	RFQ



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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

- 01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
 - 90-264Vac range @ 100% of rated load current
 - 85-264 Vac range @ 90% of rated load current
 - 90-370 VDC range @ 100% of rated load current
- 02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50/60Hz
- 03. Power Factor: 0.90 minimum @ 230Vac, 0.97 minimum @ 115Vac
- 04. Output Type: LPS (Limited Power Source), limited to less than 8A and 100W
- 04. Output Regulation: +/- 4% measured at the output connector
- 05. Line Voltage Regulation: +/- 0.5% typical measured at full load
- 06. Green Power On Indicator LED
- 07. Output Ripple (Vp-p): 1% or 200 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 at nominal line
- 08. Turn-ON/OFF Overshoot: 8% maximum, 1 mS typical recovery time for 25% to 50% step load
- 09. Turn-ON Delay: 1 second typical
- 10. Hold-Up Time: 20 mS minimum
- 11. Inrush Current: 30A maximum at 115Vac input and 60A maximum at 230 Vac input
- 12. Switching Frequency: Varies from 25KHz to 125KHz
- 13. Efficiency: Compliant with Efficiency Level VI Standard and 230 CoC Tier 2 Limits
- 14. No Load Standby Power: <0.15 W @ 230Vac

B) PROTECTION

- 01. Input Protection: Input line fusing and 300Vac rated MOV
- 02. Non-LPS version: Current Limited to 110% to 160% of rated output current
- 03. LPS version: Short Circuit/Overload limited to less than 8A and 100W (add Z suffix in model #)
- 04. Over-Temperature: Inherently protected against continuous overload at high temperature
- 05. Output Over-Voltage: 110% to 135% of nominal output voltage under full load condition, and less than 60V max. Latching protection, cycle AC OFF to reset.

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 < 70uA
- 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. Primary to Secondary Bridging Capacitance: Two IEC60384-14 certified Y1 type capacitors in series
- 08. Compliant Standards: See listings at end of this drawing for specifics

D) EMC

EN 60601-1-2, 4th edition

PROPRIETARY INFORMATION

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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

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, 18kV 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: 500,000 Hours @ 40°C ambient temperature, Full Load
- 02. Operating Temperature:

GTM96900P Family: 0°C to 50°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. Humidity: 0% to 95% relative humidity, non-condensing
- 04. Storage Temperature: -30°C to 80°C
- 05. Cooling: Convection
- 06. ROHS: Compliant with latest regulations, see approvals section below
- 07. Operational Altitude: 5000M

F) ENCLOSURE

01. Markings: Label or Laser printed

G) SPECIAL OPTIONS

- 01. LPS or non-LPS versions (Z suffix for LPS model)
- 02. Custom Cordsets, various cordage types, and connector types
- 03. Custom Markings
- 04. Short term Output Surge Capability, as a non-LPS version
- 05. Reduced Leakage Current version, medical CF leakage current compliance
- 06. Tightened output voltage tolerance
- 07. Reduced Output Ripple Level
- 08. Reduced output power Marking/Rating
- 09. LED Lighting, Class C Line Harmonics per 61000-3-2

Three Power Ranges available: 27-51W, 40-65W and 57-90W

- 10. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
- 11. Low Temperature operation, down to -40°C
- 12. Special Housing Colors and Cordset Colors

H) OUTPUT CONNECTORS

May 11, 2025

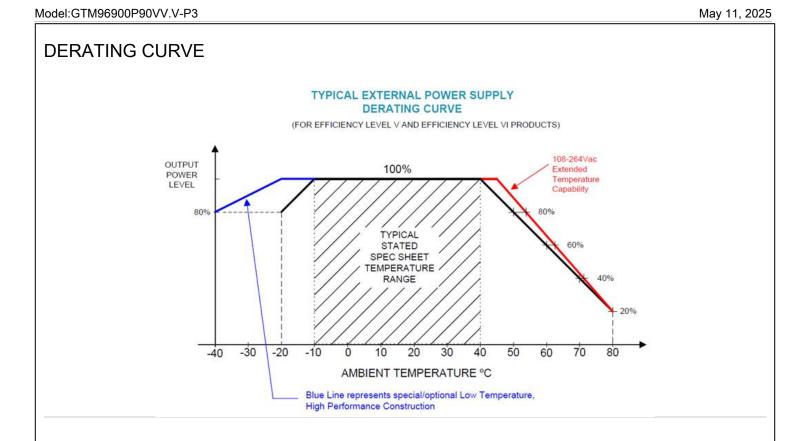
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G GlobTek Inc.®

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Model:GTM96900P90VV.V-P3 May 11, 2025 INPUT CONFIGURATION Description See "Blade/Cord Installed" section. Contact GlobTek for customization requests such as Molded country plugs, Molex or TE connectors, or IEC connectors mounted on any type of cable in any customer specified lengths.



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OUTPUT CONFIGURATION

Model:GTM96900P90VV.V-P3

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)



Locking 760k type)



LL Type (5.5x2.5mm 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	May 11, 20
Logo	Description
No Logo Applicable	CB for IEC61347-1:2015 + A1:2017 IEC61347-2-13:2014, A1:2016
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
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
IP68	Ingress Protection: ?IP68 to IEC60529:2001 Totally dust tight and Protected against long periods of immersion under pressure
DC-E-G71-005.1 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificate DC-E-G71-005.1 to IEC 62368-1:2014
6	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
Intertek	S-Mark Certificate EN 60601-1:2006 + A1:2013 + A12:2014 EN 60601-1-11:2015 (http://www.intertek.com/marks/s/)







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UK	UKCA Certification	
UK CA		