

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

Model:GTM962500PWWWVV.V-F

May 20, 2024

GTM962500PWWWVV.V-F

Information

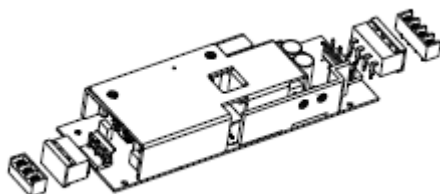
Model Number

GTM962500PWWWVV.V-F

Description

GTM962500PWWWVV.V-F, ICT / ITE / Medical Power Supply, 60601-1-4th Ed. , Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, 3 Positon Terminal Block, Output Rating: 250 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: PSE; PSE; PSE; CE; RoHS; China RoHS; Ukraine; WEEE; VCCI; Level VI; EAC; UKCA; CCC (pending); CB 60950 (pending); CB 60601-1 (pending); cETLus UL1310 (pending); ETL (pending); CB 62368 (pending); ETL 62368 (pending); CB 60335 (pending); CB 61347 (pending); Morocco;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GTM962500P/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a0O0c00000PHWcEEAX

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a0O0c00000PHWcEEAX

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	Open Frame/Internal
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)	1.8 A
Wattage (W)	250.0
Vout Range (V)	12-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	na
Size (mm)	203*63.5*41

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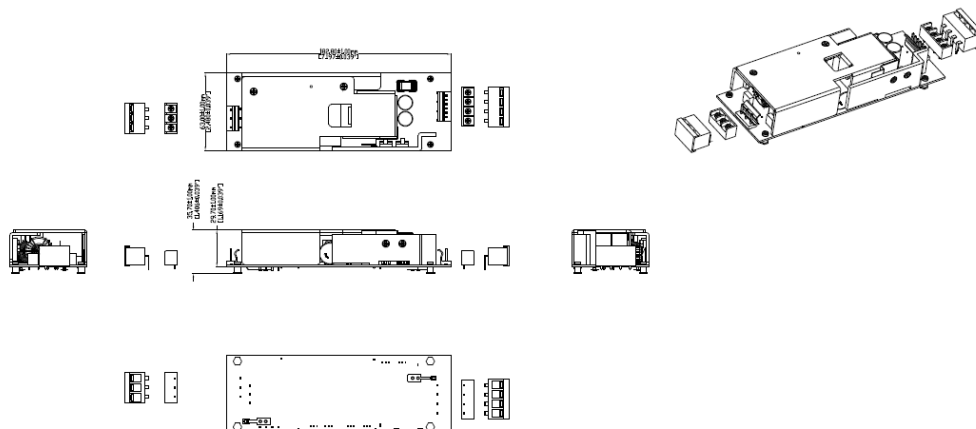
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ENCLOSURE



Customer to provide EMI shielding if not in metal chassis

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM962500P25012-F	12 V	19.166	229.99	RFQ
GTM962500P25015-F	15 V	16	240.00	RFQ
GTM962500P25019-F	19 V	13.157	249.98	RFQ
GTM962500P25024-F	24 V	10.416	249.98	RFQ
GTM962500P25030-F	30 V	8.333	249.99	RFQ
GTM962500P25036-F	36 V	6.944	249.98	RFQ
GTM962500P25048-F	48 V	5.208	249.98	RFQ
GTM962500P25054-F	54 V	4.629	249.97	RFQ

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SPECIFICATIONS

ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
90-264Vac range @ 100% of rated load current
with forced air cooling
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50/60Hz
03. Power Factor: 0.90 minimum @ 230Vac, 0.97 minimum @ 115Vac
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: 5% 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 230Vac input
12. Switching Frequency: Varies from 30KHz to 133KHz
13. Efficiency: > 90%
14. No Load Standby Power: <0.15 W @ 230Vac

Output Voltage	Open frame (55C ambient)		L chassis (50C ambient)		Metal cage (45C ambient)	
	Without Fan	With Fan	Without Fan	With Fan	Without Fan	With Fan
12 -14.9V	160W	230W	160W	230W	160W	230W
15 – 18.9V	170W	240W	170W	240W	170W	240W
19 – 54V	180W	250W	180W	250W	180W	250W

PROTECTION

01. Input Protection: Input line fusing and 300Vac rated MOV
02. Short Circuit/ Overload: Electronically Protected unit will auto recover upon removal of fault
Output Current Limit: Current limited to less than 330W / Vnom
(Vnom = nominal rated output voltage)
03. Over-Temperature: Latching Electronic Overtemperature protection. Cycle AC OFF to reset.
04. 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.

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
03. Touch Current: Class I models < 20uA
04. Class I Input, Output is Earthed
05. Earth Continuity Test: < 0.1 Ohm between Earth Pin at AC input and PCB termination point
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

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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

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 80-2700MHz, 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

OTHER:

02. Operating Temperature:

Open Frame: -20°C to 55°C ambient temperature with full load

L Chassis: -20°C to 50°C ambient temperature with full load

Metal Cage: -20°C to 45°C ambient temperature with full load

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

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

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

06. Operational Altitude: 5000M

MECHANICAL

01. Open Frame configuration, standard option

02. L Chassis configuration, alternate option, may be purchase separately

03. Cage Configuration, alternate option, may be purchased separately

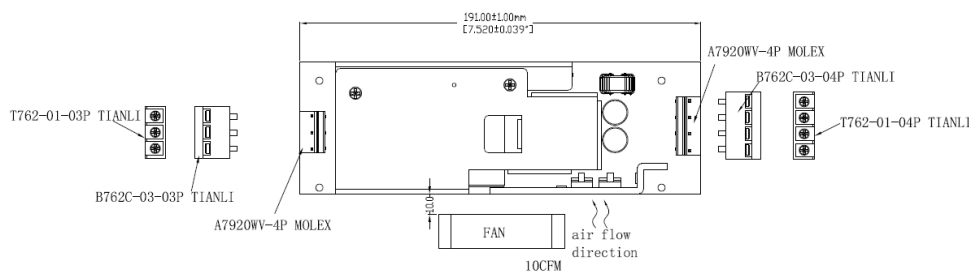
04. Alternate input and output connector options (see diagram), terminal block is standard

a- Terminal Block, screws face up: T762-01-3P Input, T762-01-4P Output, TIANLI

b- Terminal Block, screws from side: B762C-03-3P Input, B762C-03-4P Output, TIANLI

c- Push to Engage Header: A7920W-3P Input, A7920W-40 Output, MOLEX

FORCED AIR COOLING FAN CONFIGURATION/POSITION



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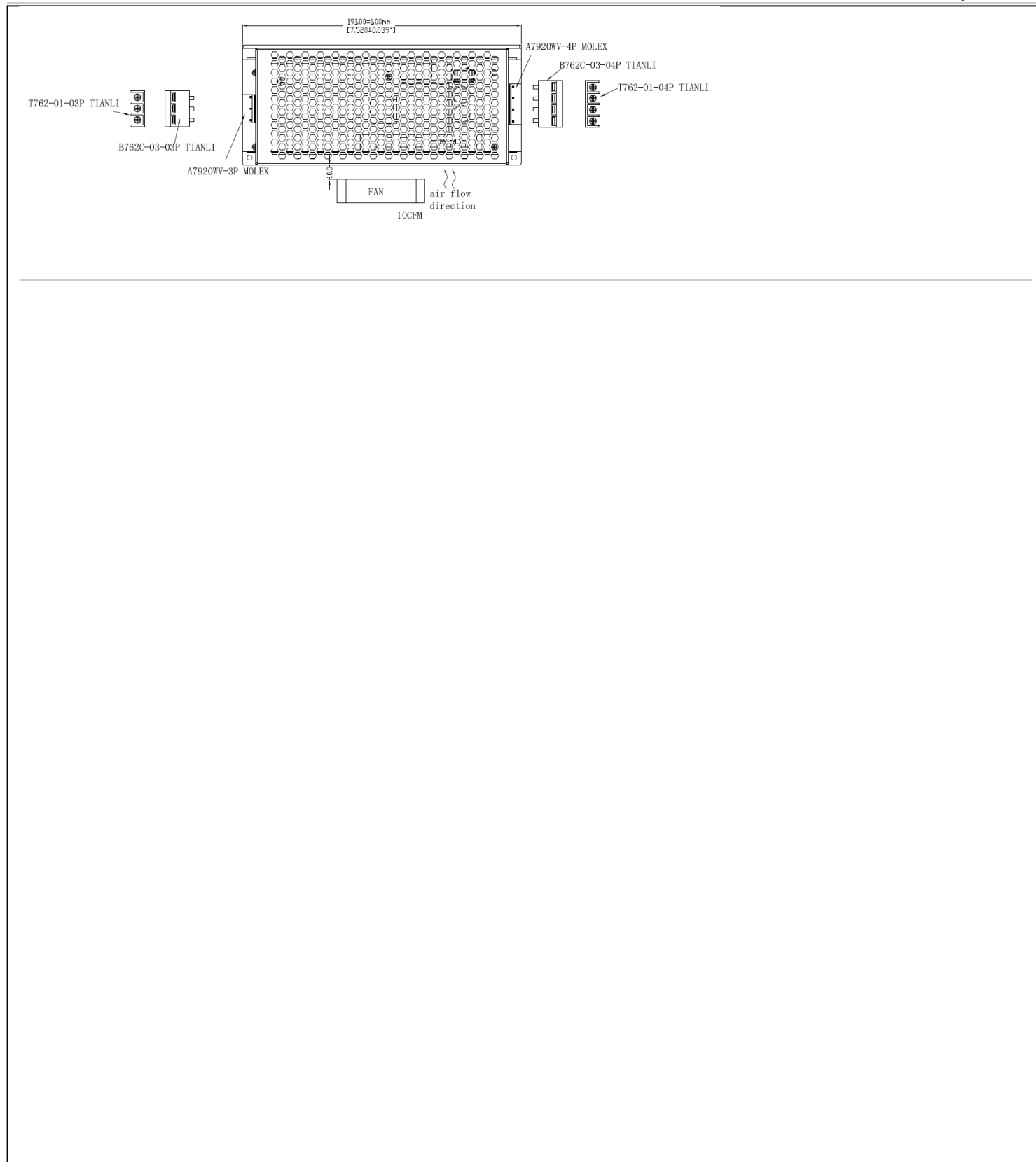
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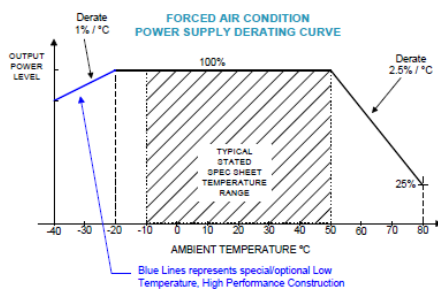
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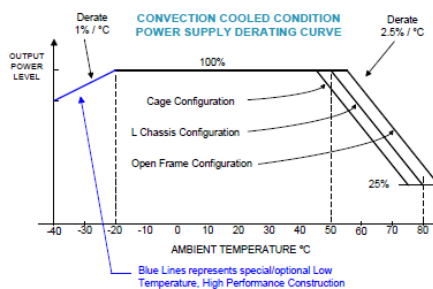
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DERATING CURVE



Notes:

- 1) For Forced Air at 10 CFM, Open Frame, L Chassis, or Cage Config.
- 2) 12V - 18V models, 240W output.
- 3) 19V - 54V models, 250W output



Notes:

- 1) 12V Model, 160W output.
- 2) 15V Model, 170W output.
- 3) 19V - 54V Models, 180W output

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INPUT CONFIGURATION

Description 3 Positon Terminal Block

Optional Input Wiring Kits are available:

PN/Ordering No	Length End A	End B
C810070M6MLX5(R)	60 IEC 60320 C8 (Faston)	MOLEX 09-50-3051
C810070M6MLX5HW(R)	60 IEC 60320 C8 (Hardwired)	MOLEX 09-50-3051
C1410070M6MLX5(R)	60 IEC 60320 C13	MOLEX 09-50-3051
MLX5410070M7MLX5(R)	73 MOLEX 09-50-3051	MOLEX 09-50-3051

Custom lengths, construction, cable types, ferrites, filters, and termination available upon request.

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Approvals

Logo	Description
No Logo Applicable	CB for IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) up to 48V only (pending)
No Logo Applicable	CB for IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013 (pending)
No Logo Applicable	CB IEC 60950-1:2005 +A1 +A2 (pending)
No Logo Applicable	CB for IEC61347-1:2015 + A1:2017 IEC61347-2-13:2014, A1:2016 (pending)
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition) (pending)
	CCC to GB4943.1-2011 GB9254-2008 GB17625.1-2012 (pending)
	CE Certification
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2] (pending)
	Conforms to UL Std. 1310 CLASS 2 Power Units Cert. to CSA Std. C22.2 NO. 223 Up to 36 volts (pending)
	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

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	Declaration ДС № EA9C 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
	Medical Elec. Equip.- Part 1-11: Gen. Req. For Basic Safety & Essential Perf.- Collateral Standard - Req. For Medical Elec. Equip. & Medical Elec. Systems Used In The Home Healthcare Environment [IEC 60601-1-11:2015 Ed.2] (pending)
	Indoor Use Only - Mark is on the label or Molded in the case
 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: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
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)
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
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
	UKCA Certification

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 10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	Japan: Voluntary Control Council for Interference (VCCI)
	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