

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

Model:GTM962500PWWVV.V-F

July 16, 2019

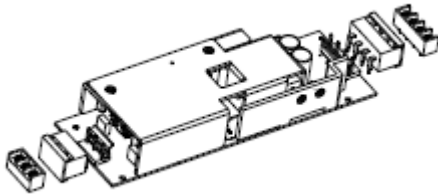
GTM962500PWWVV.V-F

Information

Model Number GTM962500PWWVV.V-F

Description GTM962500PWWVV.V-F, 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;

Model Picture



Agency Documents <http://www.globtek.info/certs/GTM962400P/>

CE EC-Declaration https://www.globtek.com/pdf/ec_declaration/a000c00000PHWcEEAX

RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a000c00000PHWcEEAX

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

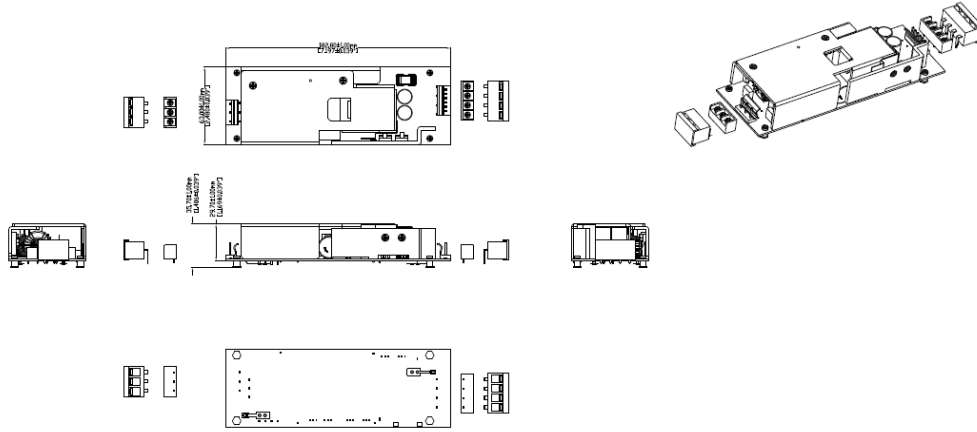
Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.8 A
Wattage (W)	250.0
Vout Range (V)	12-54
Efficiency Level	VI
Ingress Protection	
Size (mm)	203*63.5*41

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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-F12 V	12	19.166	229.99	RFQ
GTM962500P25015-F15 V	15	16	240.00	RFQ
GTM962500P25019-F19 V	19	13.157	249.98	RFQ
GTM962500P25024-F24 V	24	10.416	249.98	RFQ
GTM962500P25030-F30 V	30	8.333	249.99	RFQ
GTM962500P25036-F36 V	36	6.944	249.98	RFQ
GTM962500P25048-F48 V	48	5.208	249.98	RFQ
GTM962500P25054-F54 V	54	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

EMC

PROPRIETARY INFORMATION

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<http://en.globtek.com/datasheet/id/a000c00000PHWcE>

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 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

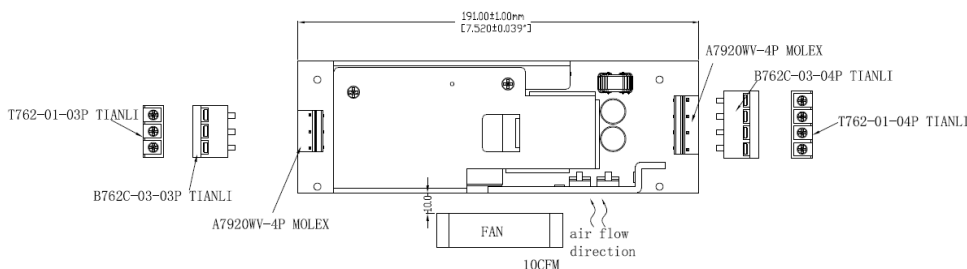
04. Alternate input and output connector options (see diagram), terminal block is standard

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-4P Output, MOLEX

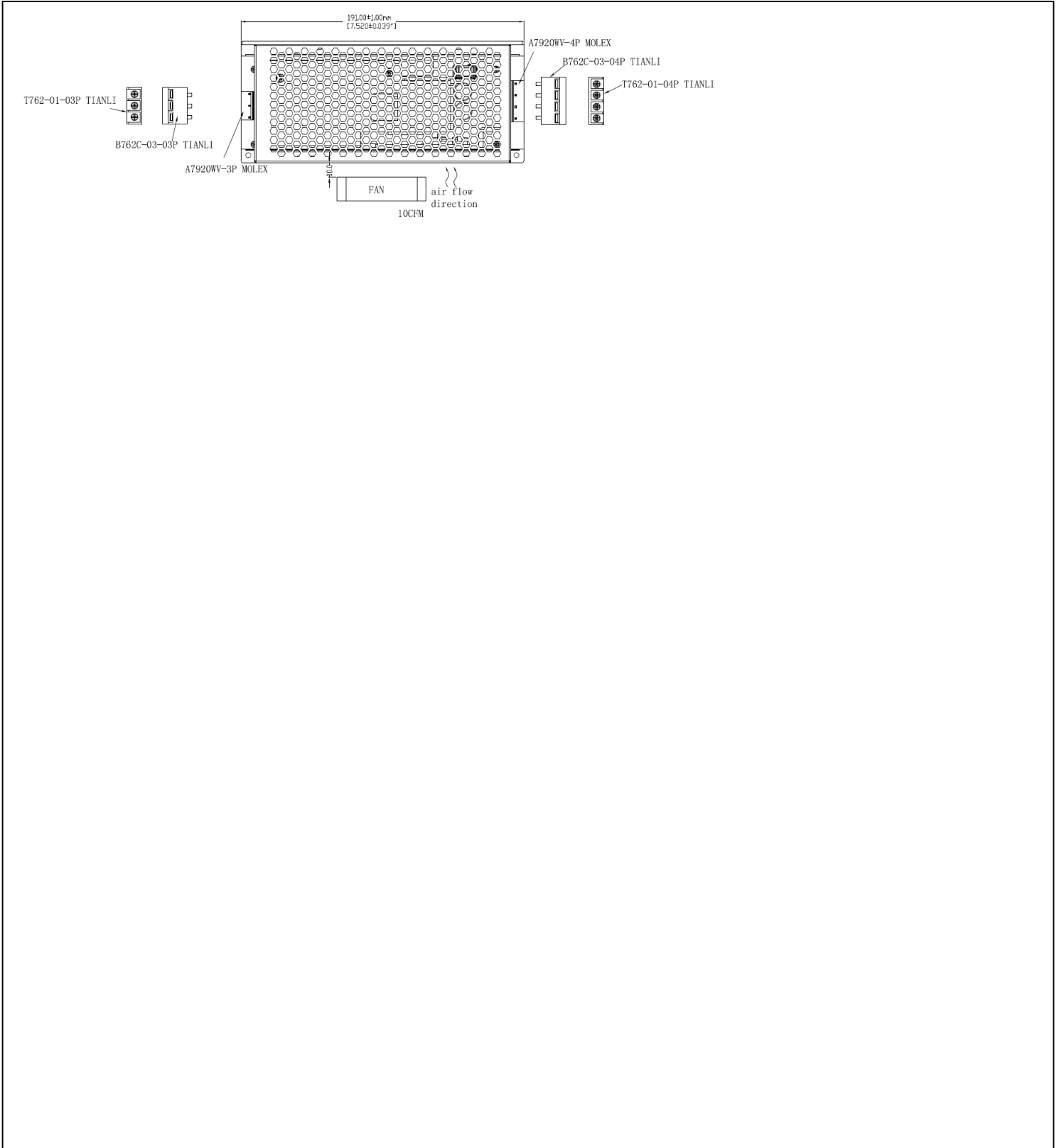
FORCED AIR COOLING FAN CONFIGURATION/POSITION



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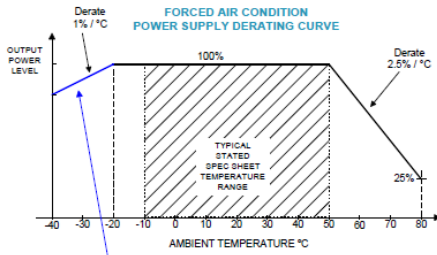
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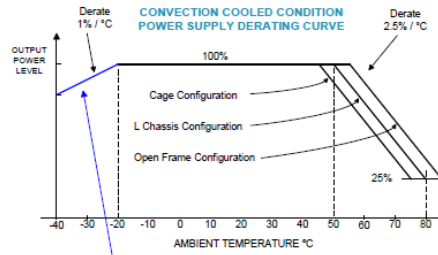
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DERATING CURVE



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



Notes:
 1) 12V Model, 190W output.
 2) 15V Model, 170W output.
 3) 10V - 54V Models, 180W output

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Input Configuration

Description3 Positon Terminal Block

Optional Input Wiring Kits are available:

PN/Ordering No	Length	End A	End B
C810070M6MLX5(R)	60	IEC 60320 C8	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






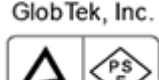
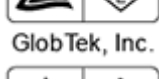



Custom lengths, construction, cable types, ferrites, filters, and termination available upon request.

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Approvals

Logo	Description
	CE Certification
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Declaration # EA3C N RU Д-US.АД75.B.01052 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
	Indoor Use Only - Mark is on the label or Molded in the case
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50314475, to J60950-1(H26) , J55022(H22),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50314475, to J60950-1(H26) , J55022(H22),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/
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)
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
 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