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Model:GTM962252PWWWVVX-XF

May 20, 2024

Information	
Model Number	GTM962252PWWWVVX-XF
Description	GTM962252PWWWVVX-XF, ICT / ITE / Medical Power Supply, 60601-1-4th Ed. , Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, Forced airflow for full rated power (CFM): 10CFM, Input Rating: 100-240V~, 50-60 Hz, , Output Rating: 225 Watts, Power rating with convection cooling (W) 140, 12-54V in 0.1V increments, Approvals: UKCA; CB 60601-1; Conforms to 62368-1; CB 60950; CB 62368; China RoHS EAC; Level VI; RoHS; Ukraine; VCCI; WEEE; Morocco; ETL 62368; ETL; CE; CCC;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM96225xP%20/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000M4jYYEAZ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000M4jYYEAZ
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf
	https://www.globtek.com/pdf/iso_certificates/REACH.pdf https://www.globtek.com/pdf/conflict-minerals.pdf



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MODEL PARAMETERS	
Туре	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)	3A
Wattage (W)	225.0
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)	103.5 (L) x 62.3 (W) x 40.0 (H)

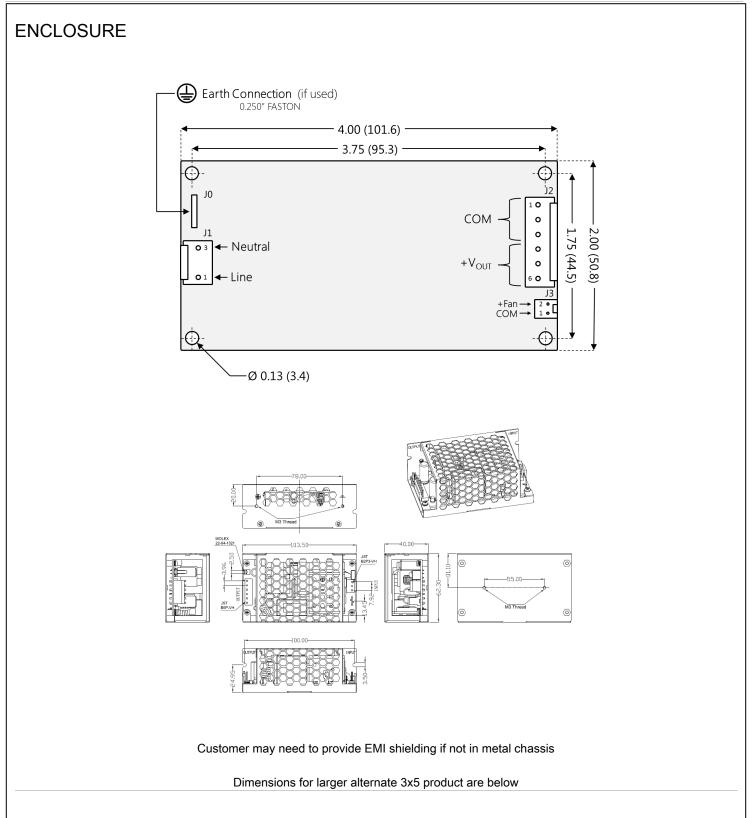


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225.12

225.18

RFQ

RFQ

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GTM962252P22548A-F

GTM962252P22554A-F

48 V

54 V

Model:GTM962252PWWWVVX-XF May 20, 2024 **RATING TABLE** Model Number Voltage Amps(A) Watts(W) RFQ GTM962252P22512A-F 12 V 18.75 225.00 RFQ GTM962252P22515A-F 15 V 15 225.00 RFQ 16 V 14.06 224.96 GTM962252P22516-F RFQ GTM962252P22516A-F 16 V 14.06 224.96 RFQ 18 V 12.5 225.00 GTM962252P22518A-F RFQ GTM962252P22518-F 18 V 12.5 225.00 RFQ GTM962252P22519A-F 19 V 11.84 224.96 RFQ GTM962252P22524A-F 24 V 8.775 210.60 RFQ GTM962252P22530A-F 30 V 7.5 225.00 RFQ 36 V 6.25 225.00 GTM962252P22536A-F RFQ GTM962252P22536-F 36 V 6.25 225.00 RFQ GTM962252P22538A-F 38 V 5.92 224.96 RFQ

4.69

4.17



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SPECIFICATIONS

Features

- High power density 2" x 4" format (3" x 5" and 4.22" x 7" formats also available)
- 2" x 4" version available in L-frame and cage configurations
- Low conducted & radiated EMI: Class B without external filters, ferrites, or metal planes (all input configurations, into resistive load)
- Class I, Class II, or Class II with Functional Earth input configurations
- ITE/ICT and medical (2 x MOPP) certified
- Auxiliary +12V output

Input

Input Voltage:	Specified: 85-264VAC, Nameplate: 100-240VAC		
Input Frequency:	Specified: 47-63Hz, Nameplate: 50-60Hz		
Input Current:	2.75A typ. @ 85VAC, 1.0A typ. @ 230VAC (full load)		
No Load Input Power:	<150mW		
Inrush Current:	<75A @ 230VAC (cold start @ 25°C)		
Efficiency:	90 - 95% typ. (full load)		
Power Factor:	>0.95 @ 115VAC, >0.90 @ 230VAC, 225W output >0.90 @ 115VAC, >0.85 @ 230VAC, 100W output		

Output

	225W (10CFM forced air)
Output Power:	140W (natural convection)
	Ratings are inclusive of aux output power
Turn-on Delay:	< 1 second @ 85VAC
Output Voltage Tolerance:	± 2.0% (worst case, set point + load/line regulation)
Load Regulation:	± 0.5% (measured at connector)
Line Regulation:	± 0.2% (measured at connector)
Ripple:	1% pk-pk (using a 47 μ F low-ESR cap + 0.1 μ F ceramic capacitor, measured @ 20MHz BW)
Transient Response:	<5% deviation (with 25% load step), recovery to within 1% in 1ms
Startup Overshoot:	<5% (full load)
Hold-up Time:	10ms min. (full load)
	12V \pm 2V (10V min. / 14V max.), for 0A \leq I _{Aux} \leq 1.2A
Aux Output Voltage Regulation:	Aux regulation guaranteed when main output power \geq 15% of 225W rating (~34W).
	For main output power < 15%, aux output voltage may drop to < 50% of nominal rating, dep
	For main output = 12V, aux output voltage is same as main output.
	1.2A (10CFM forced air)

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Aux Output Current:	0.8A (natural convection)
Output Indicator:	Green LED
Protections	
Input Protection:	MOV transient suppressor, dual fuses (line + neutral)
Over-Voltage Protection:	110-130%, latched-off, cycle AC to reset
Over-Current Protection:	110-140%, auto-recovery
Short Circuit Protection:	Non-latched with auto-recovery
Over-Temperature Protection:	NTC temperature sensor embedded in transformer, trip between 115 - 120°, latched-off, c
Environmental	
MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)
Operating Temperature:	-20°C to 50°C (full output power), -25°C to 80°C (derated)
Storage Temperature:	-30°C to 85°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude:	5000m max.
Vibration:	Conforms to EN60068-2-6, ISO80601-2, EN1789
Dielectric Withstand Voltage:	4000VAC or 5656VDC from input to output 3000VAC or 4242VDC from input to earth
Touch Current:	3-conductor input - NC: <25µA, SFC: <200µA
	2-conductor input - NC: <65μA, SFC: <140μA 3-conductor input: <200μA
Earth Leakage Current	
-	2-conductor input: N/A
Means of Protection:	
-	2-conductor input: N/A 2 x MOPP
Means of Protection: Primary-Secondary Bridging Capacitance:	2-conductor input: N/A 2 x MOPP
Means of Protection: Primary-Secondary Bridging Capacitance: EMC	2-conductor input: N/A 2 x MOPP Two IEC60384-14 certified Y1 capacitors in series Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22
Means of Protection: Primary-Secondary Bridging Capacitance: EMC Applicable Standards:	2-conductor input: N/A 2 x MOPP Two IEC60384-14 certified Y1 capacitors in series Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2
Means of Protection: Primary-Secondary Bridging Capacitance: EMC Applicable Standards: Conducted Emissions: Radiated Emissions:	2-conductor input: N/A 2 x MOPP Two IEC60384-14 certified Y1 capacitors in series Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2 Class B, FCC Part 15, Class B (with resistive load)
Means of Protection: Primary-Secondary Bridging Capacitance: EMC Applicable Standards: Conducted Emissions: Radiated Emissions: Harmonic Current Voltage Distortion:	2-conductor input: N/A 2 x MOPP Two IEC60384-14 certified Y1 capacitors in series Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2 Class B, FCC Part 15, Class B (with resistive load) Class B, FCC Part 15, Class B (with resistive load)
Means of Protection: Primary-Secondary Bridging Capacitance: EMC Applicable Standards: Conducted Emissions:	2-conductor input: N/A 2 x MOPP Two IEC60384-14 certified Y1 capacitors in series Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2 Class B, FCC Part 15, Class B (with resistive load) Class B, FCC Part 15, Class B (with resistive load) EN61000-3-2, Class A
Means of Protection: Primary-Secondary Bridging Capacitance: EMC Applicable Standards: Conducted Emissions: Radiated Emissions: Harmonic Current Voltage Distortion: Voltage Fluctuations/Flicker:	2-conductor input: N/A 2 x MOPP Two IEC60384-14 certified Y1 capacitors in series Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2 Class B, FCC Part 15, Class B (with resistive load) Class B, FCC Part 15, Class B (with resistive load) EN61000-3-2, Class A EN61000-3-3

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Line Surge Immunity:	EN61000-4-5, 2KV differential, 4KV common-mode		
Conducted RF Immunity:	EN61000-4-6, 3VRMS, (6VRMS in ISM/amateur bands), 80% 1KHz AM		
Power Frequency Magnetic Field Immunity:	EN61000-4-8, 30A/m		
Voltage Dip Immunity:	EN61000-4-11		
Mechanical Formats			
	Open-frame		
	No suffix: 2" x 4" style, 101.6*50.8*30.0mm, 170g		
GTM962250P:	-C suffix: 3" x 5" style, 127.0*64.8*30.0mm, 180g		
	-D suffix: 4.22" x 7" style, 177.8*107.2*30.0mm, 190g		
GTM962251P:	L-frame: 103.5*62.3*40.0mm, 230g		
071/0000500	Cage: 103.5*62.3*40.0mm, 250g		
GTM962252P:			
	The open-frame format meets the above EMC specifications as a standalone unit. However,		
GTM962252P: Note 1:			
	The open-frame format meets the above EMC specifications as a standalone unit. However help address other system level electrical/mechanical requirements.		
Note 1: Input/Output Connectors	The open-frame format meets the above EMC specifications as a standalone unit. However help address other system level electrical/mechanical requirements.		
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Note 1: Input/Output Connectors Earth Terminal (J0): Input Connector (J1):	The open-frame format meets the above EMC specifications as a standalone unit. However help address other system level electrical/mechanical requirements. Connector on PCB: Kang Yang PCH250 (0.250" x 0.031" Faston) Recommended mate: TE Connectivity/AMP 2-520184-2 Note: Leave earth terminal disconnected for Class II input Connector on PCB: JST B2P3-VH Pin 1: Line, Pin 2: Not used, Pin 3: Neutral Recommended mate: JST VAR-2 (housing), JST SVA-41T-P1.1 (terminals) Connector on PCB: JST B6P-VH		
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Note 1: Input/Output Connectors Earth Terminal (J0): Input Connector (J1):	The open-frame format meets the above EMC specifications as a standalone unit. However help address other system level electrical/mechanical requirements.		

- Custom labels/markings
- Short term output surge capability
- Reduced touch current
- Reduced output ripple
- Compliance to IPC-600, IPC-610, IPC-6012 Class 2 or 3
- IEC61000-3-2 Class-C line harmonics for LED lighting applications
- Non-latching (auto-recover) over-temperature protection
- Potentiometer to adjust/trim output voltage
- Custom aux output voltages (5V to 12V), available for main output voltages from 12-24V

Fan Airflow

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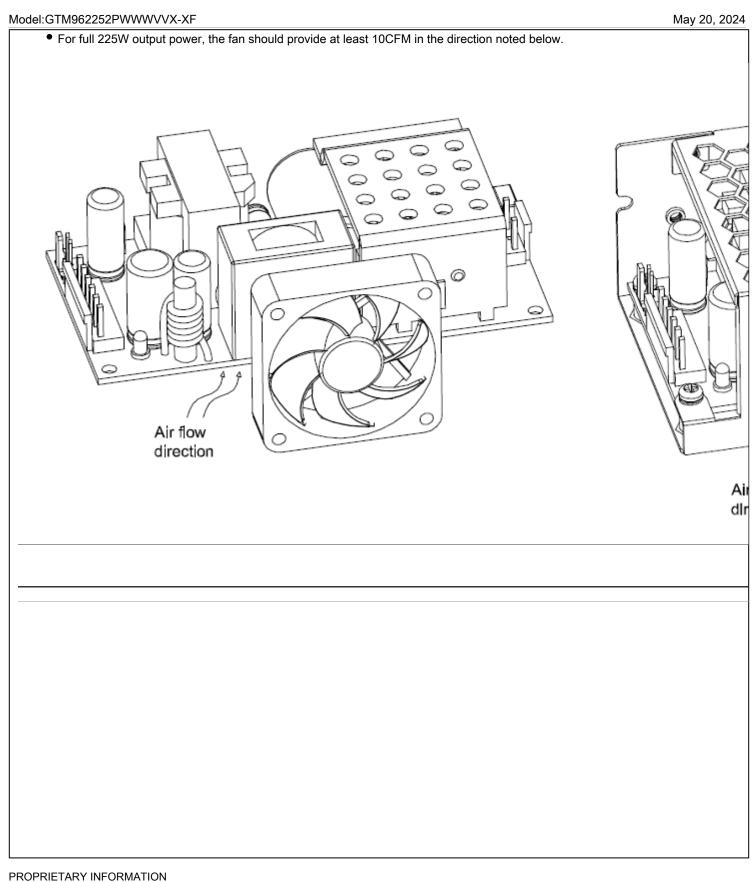
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DERATING CURVE Temperature Derating Curve 225₩ @ 50°C 🕃 Forced Air 225 180W @ 60°C 200 175 Output Power (W) 150 **SSS** Convection 125 140W @ 50°C 90W @ 80°C 100 75 100W @ 60°C 50 25 30W @ 80°C 20 30 40 50 70 -20 -10 0 10 60 80 Ambient Temperature (°C)



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INPUT CONFIGURATION

Description



Optional Input Wiring Kits are available:

PN/Ordering No	Length	End A	End B
C810070M6VAR2(R)	60	IEC 60320 C8	JST VAR-2
C1410070M6VAR2(R)	60	IEC 60320 C13	JST VAR-2
VAR2210070M7VAR2(R	73	JST VAR-2	JST VAR-2

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



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Approvals Logo Description Attention Mark / Refer to operating manual for operating and service instructions CB for IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 No Logo Applicable (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) up to 48V only No Logo Applicable CB for IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 No Logo Applicable CB for IEC 62368-1:2014 (Second Edition) CCC GB17625.1-2012, GB4943.1-2011, GB/T9254-2008 CE **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 Intertek C22.2#62368-1:2014 Ed.2] CHINA SJ/T 11364-2014, China RoHS Chart: £30 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 Conforms to UL STD. 62368-1 Certified to CSA STD Certified to CSA STD C22.2 NO.62368-1 C22.2 NO.62368-1 Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan

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	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 [IE 60601- 1-11:2015 Ed.2]
∆	Indoor Use Only - Mark is on the label or Molded in the case
	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)
6	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- http://www.ce-mark.com/Rohs%20final.pdf
UK CA	UKCA Certification
10276	Ukraine UKRSepro (Document: <u>www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</u>)
VEI	Japan: Voluntary Control Council for Interference (VCCI)
X	WEEE: Complies with EU 2012/19/EU (<u>http://ec.europa.eu/environment/waste/weee/index_en.htm</u> Mark is on the label or Molded in the case