

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

Model:GTM962251PWWWVVX-XF

May 9, 2025

GTM96225	1PWWWVVX-XF

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Model Picture

Information	
Model Number	GTM962251PWWWVVX-XF
	GTM962251PWWWVVX-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:
Description	225 Watts, Power rating with convection cooling (W) 140, 12-54V in 0.1V increments,
	Approvals: China RoHS; EAC; Level VI; RoHS; Ukraine; VCCI; WEEE; UKCA; CB
	60601-1; Conforms to 62368-1; CB 60950; cETLus 60950-1; CB 62368; Morocco; ETL

62368; ETL; CE; CCC (pending);



Agency Documents	http://www.globtek.info/certs/GTM96225xP%20/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O0c00000Ph0MxEAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O0c00000Ph0MxEAJ
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	
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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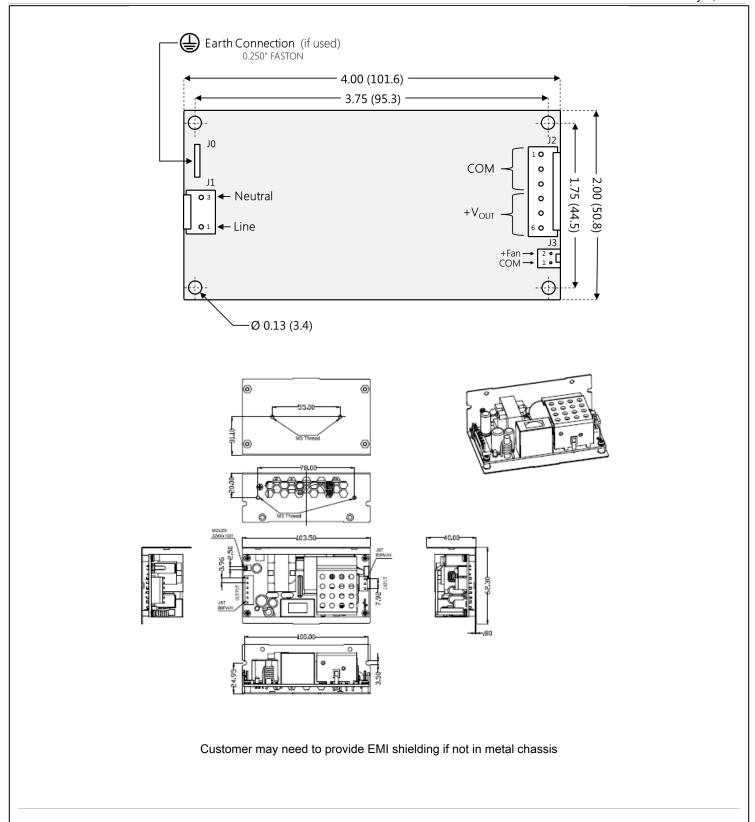
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#### **RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM962251P22512A-F	12 V	18.75	225.00	RFQ
GTM962251P22515A-F	15 V	15	225.00	RFQ
GTM962251P22516-F	16 V	14.06	224.96	RFQ
GTM962251P22516A-F	16 V	14.06	224.96	RFQ
GTM962251P22518A-F	18 V	12.5	225.00	RFQ
GTM962251P22518-F	18 V	12.5	225.00	RFQ
GTM962251P22519A-F	19 V	11.84	224.96	RFQ
GTM962251P22524A-F	24 V	9.37	224.88	RFQ
GTM962251P22530A-F	30 V	7.5	225.00	RFQ
GTM962251P22536A-F	36 V	6.25	225.00	RFQ
GTM962251P22536-F	36 V	6.25	225.00	RFQ
GTM962251P22538A-F	38 V	5.92	224.96	RFQ
GTM962251P22548A-F	48 V	4.69	225.12	RFQ
GTM962251P22554A-F	54 V	4.17	225.18	RFQ
		*		



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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 47μF low-ESR cap + 0.1μF 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 $0A \le I_{Aux} \le 1.2A$
Aux Output Voltage Regulation:	Aux regulation guaranteed when main output power ≥ 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.

#### PROPRIETARY INFORMATION

1.2A (10CFM forced air)



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Model:GTM962251PWWWVVX-XF	May 9, 202
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, cy
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
Safety  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
Earth Leakage Current	3-conductor input: <200μA 2-conductor input: N/A
Means of Protection:	2 x MOPP
Primary-Secondary Bridging Capacitance:	Two IEC60384-14 certified Y1 capacitors in series
EMC	
Applicable Standards:	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
Conducted Emissions:	Class B, FCC Part 15, Class B (with resistive load)
Radiated Emissions:	Class B, FCC Part 15, Class B (with resistive load)
Harmonic Current Voltage Distortion:	EN61000-3-2, Class A
Voltage Fluctuations/Flicker:	EN61000-3-3
Electrostatic Discharge (ESD) Immunity:	EN61000-4-2, 10KV contact discharge, 20KV air discharge (applied to input or output term
Radiated RF Immunity:	EN61000-4-3, 20V/m 80-2700MHz, 80% 1KHz AM, 80% 5Hz AM
EFT/Burst Immunity:	EN61000-4-4, 4KV/100kHz.



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lodel:GTM962251PWWWVVX-XF	May 9, 2	
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	
OTM 1000050D	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	
GTM962252P:	Cage: 103.5*62.3*40.0mm, 250g	
Note 1:	The open-frame format meets the above EMC specifications as a standalone unit. Howe help address other system level electrical/mechanical requirements.	
Input/Output Connectors		
	Connector on PCB: Kang Yang PCH250 (0.250" x 0.031" Faston)	
Earth Terminal (J0):	Recommended mate: TE Connectivity/AMP 2-520184-2	
	Note: Leave earth terminal disconnected for Class II input	
	Connector on PCB: JST B2P3-VH	
Input Connector (J1):	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	
Main Output Connector (J2):	Pin 1: COM, Pin 2: COM, Pin 3: COM, Pin 4: +VOUT, Pin 5: +VOUT, Pin 6: +VOUT	
	Recommended mate: JST VHR-6N (housing), JST SVH-21T-P1.1 (terminals)	
	Connector on PCB: Molex 22-04-1021	
Aux Output Connector (J3):	Pin 1: COM, Pin 2: +FAN Recommended mate: Molex 22-01-1022 (housing), Molex 2759 (terminals)	

# **Special Options**

- 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

## PROPRIETARY INFORMATION

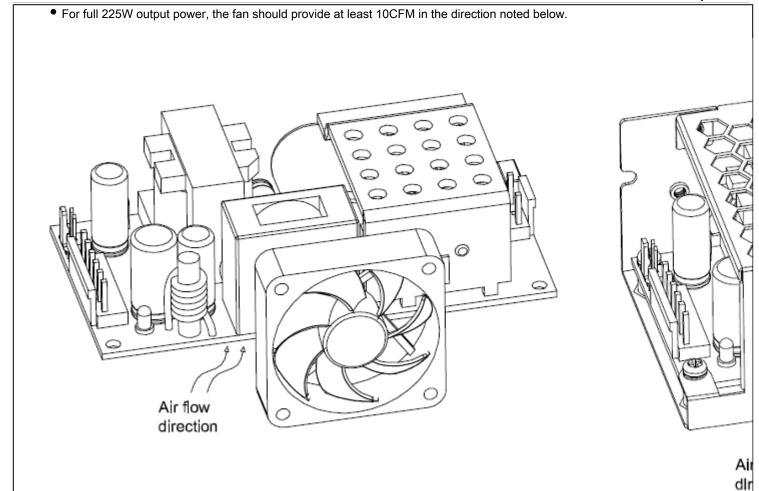
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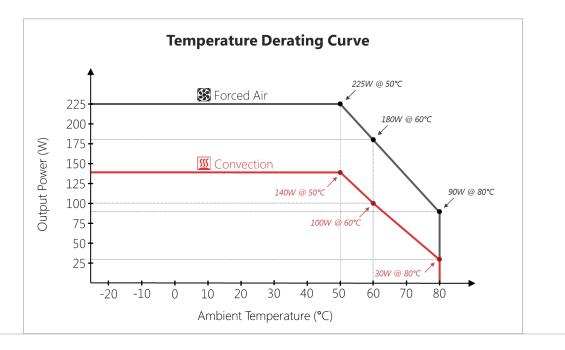


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## **DERATING CURVE**







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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	3
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Logo	Description
$\triangle$	Attention Mark / Refer to operating manual for operating and service instructions
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
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)
<b>(W)</b>	CCC GB17625.1-2012, GB4943.1-2011, GB/T9254-2008
C€	CE Certification
COMPONENT COMPON	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]
<b>30</b>	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.pd
Conforms to UL STD. 60950-1 Certified to CSA STD C22.2 NO.60950-1	Conforms to UL STD. 60950-1 Certified to CSA STD C22.2 NO.60950-1
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





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/X-XF May 9, 202
Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
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]
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)
Morocco SDoC declaration <a href="http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/">http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/</a>
Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
UKCA Certification
Ukraine UKRSepro (Document: <a href="www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
Japan: Voluntary Control Council for Interference (VCCI)
WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> ) Mark is on the label or Molded in the case