

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

Model:GTM968000P May 20, 2024

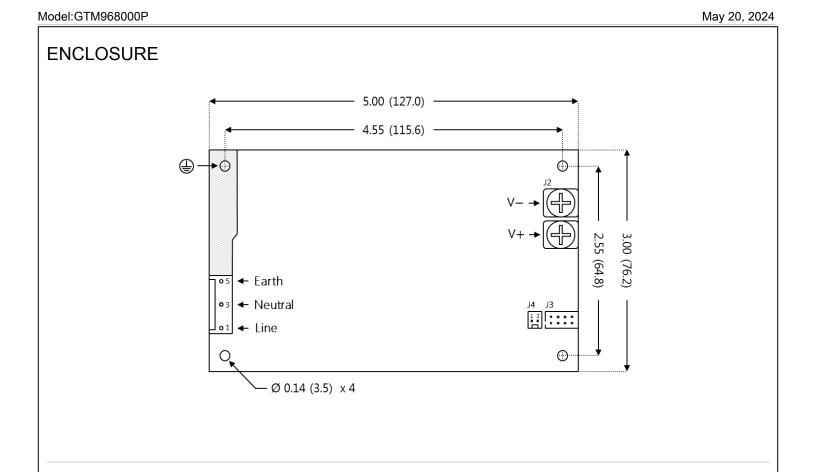
GTM968000P	
Information	
Model Number	GTM968000P
Description	GTM968000P, ICT / ITE / Medical Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, Forced airflow for full rated power (CFM): 10CFM, Input Rating: 100-240V~, 50-60 Hz, , Output Rating: 800 Watts, Power rating with convection cooling (W) 520W, 12-54V in 0.1V increments, Approvals:
Model Picture	
Agency Documents	
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000OA4O6EAL
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000OA4O6EAL
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:GTM968000P	May 20, 2024
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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)	6A
Wattage (W)	800.0
Vout Range (V)	12-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	N/A
Size (mm)	127.0 (L) x 76.2 (W) x 34.3 (H)







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del:GTM968000P				May 20, 2
RATING TABLE				
Model Number	Voltage	Amps(A)	Watts(W)	RFQ

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SPECIFICATIONS	
Input	
Input Voltage:	Specified: 90 - 264Vac, (85 - 264Vac with derating) Nameplate: 100 - 240Vac
Input Frequency:	Specified: 47 - 63Hz Nameplate: 50 - 60Hz
No Load Input Power:	< 1.5W @ 115V/230V
Inrush Current:	60A max @ 264Vac
Power Factor:	>0.95 @ 115Vac, >0.95 @ 230Vac, full load
Main Output	
Output Power:	520W (linearly derated to 480W @ 85Vac) [natural convection, open U-frame version] 800W (linearly derated to 720W @ 85Vac) [forced air cooling, enclosed version]
Constant Current Operation:	CC/CV with a brick-wall CC limit at ~115% nominal current rating. Power supply enters auto-recovery (hiccup) mode once Vout drops to ~75% of nominal value.
Turn-on Delay:	< 2 seconds @ 85Vac (full load)
Voltage Set-Point Tolerance:	± 2.0% (measured at connector, no load, Ta = -20 to 50°C)
Load Regulation:	± 1.0% (measured at connector)
Line Regulation:	± 0.5% (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 25-75% load step), recovery to within 1% in 1ms
Startup Overshoot:	<5% (full load)
Hold-up Time:	20ms min. (full load)
Standby Output	
Output Voltage:	5V
Output Current:	1A
Line/Load Regulation + Set-Point Tolerance	: ±4%
Ripple:	1% pk-pk (using a 47μF low-ESR cap + 0.1μF ceramic capacitor, measured @ 20MHz BW)
Always on?	Yes
Fan Output	
Output Voltage:	12V
Output Current:	0.6A



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Line/Load Regulation + Set-Point Toler	rance: ± 4%
Always on?	On or off depending on internal sensed temperature
Other Control & Signaling	Features
Remote On/Off (EN)	Yes
Remote Voltage Sense:	Yes, voltage drop compensation up to 500mV of total drop, short and reverse polarity protected
Power Good (PG)	Yes
Automatic On/Off Fan Control:	Yes, dependent on internal temperature, with hysteresis
Main output voltage adjustment:	Yes, ± 10% adjustment range via trimmer potentiometer (special option)
Protections	
Fusing:	Dual, high-breaking-capacity fuses compliant to IEC60601-1, ≥1,500A breaking capacity
Over-Voltage Protection:	110 - 130%. Latched-off, cycle AC to reset
Over-Current Protection:	115% typical, CC operation when Vout is between 75 - 100% of nominal value, auto-recovery hiccup-mode when Vout collapses to <75% of nominal value
Short Circuit Protection:	Auto-recovery
Short Circuit i Totection.	rate recevery
	Latched-off, cycle AC to reset
Over-Temperature Protection: AC Under-Voltage Protection:	
Over-Temperature Protection:	Latched-off, cycle AC to reset
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C)
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C
Over-Temperature Protection: AC Under-Voltage Protection: Environmental	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity: Altitude:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing 5000m max.
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity: Altitude: Vibration: Safety	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing 5000m max.
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity: Altitude: Vibration: Safety Certifications:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing 5000m max. Conforms to EN60068-2-6, ISO80601-2, EN1789 IEC60601-1 IEC62368-1
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity: Altitude: Vibration: Safety Certifications: Dielectric Withstand Voltage:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing 5000m max. Conforms to EN60068-2-6, ISO80601-2, EN1789 IEC60335-1 4000VAC or 5656VDC, primary-to-secondary 3000VAC or 4242VDC, primary-to-earth
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity: Altitude: Vibration: Safety Certifications: Dielectric Withstand Voltage: Suitable Medical Applications:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing 5000m max. Conforms to EN60068-2-6, ISO80601-2, EN1789 IEC60601-1 IEC62368-1 IEC60335-1 4000VAC or 5656VDC, primary-to-secondary 3000VAC or 4242VDC, primary-to-earth 3000Vac or 4242VDC, secondary-to-earth (Class II FE models only, N/A for Class I)
Over-Temperature Protection: AC Under-Voltage Protection: Environmental Operating Temperature: Storage Temperature: Humidity: Altitude: Vibration:	Latched-off, cycle AC to reset Brown-out trip @ 70Vac (nom.), Restore @ 75 - 80Vac -20°C to 50°C (full output power), -20°C to 70°C (linearly derated to 50% power rating @ 70°C) -30°C to 85°C 0% to 95% relative humidity, non-condensing 5000m max. Conforms to EN60068-2-6, ISO80601-2, EN1789 IEC60335-1 IEC60335-1 4000VAC or 5656VDC, primary-to-secondary 3000VAC or 4242VDC, primary-to-earth 3000Vac or 4242VDC, secondary-to-earth (Class II FE models only, N/A for Class I) Type-B (Class I) or Type-BF (Class II with FE)



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Means of Protection:	(secondary-to-earth, Class II FE models only)
EMC	
	IEC60601-1-2
Certifications:	EN55032 (CISPR32)
	EN55035 (CISPR35)
Conducted Emissions:	Class B, FCC Part 15, Class B (with resistive load, Class I and Class II FE configurations
Radiated Emissions:	Class B, FCC Part 15, Class B (with resistive load, Class I and Class II FE configurations
Harmonic Current Voltage Distortion:	EN61000-3-2, Class A
Voltage Fluctuations/Flicker:	EN61000-3-3
Flacture static Disabases (FOD) Income it of	EN61000-4-2, 10KV contact discharge, 18KV air discharge (applied to output terminals,
Electrostatic Discharge (ESD) Immunity:	and to horizontal/vertical coupling planes [HCP/VCP] with power supply sitting on HCP)
Radiated RF Immunity:	EN61000-4-3, 20V/m 80-2700MHz, 80% 1KHz AM, 80% 5Hz 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, 30A/m
Voltage Dip Immunity:	EN61000-4-11
Mechanical	
	U-Frame version: 6.00" x 4.00" x 1.69" (152.3mm x 101.6mm x 43.0mm) Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm
Dimensions:	,
Dimensions: Fan Audible Noise Specification:	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm
Mechanical Dimensions: Fan Audible Noise Specification: Input/Output Connectors	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only)
Dimensions: Fan Audible Noise Specification: Input/Output Connectors	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1
Dimensions: Fan Audible Noise Specification: Input/Output Connectors	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only)
Dimensions: Fan Audible Noise Specification: Input/Output Connectors	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout:
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND)
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1): Main Output Connectors (J2, J3):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND) Connector on PCB: Molex 0705550005
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1): Main Output Connectors (J2, J3):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND) Connector on PCB: Molex 0705550005 Recommended mate: Molex 0014562062
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1): Main Output Connectors (J2, J3):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND) Connector on PCB: Molex 0705550005 Recommended mate: Molex 0014562062 Pinout: 1: SNS+ 2: SNS- 3: PGOOD 4. EN 5. GND 6. +5VSB
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1): Main Output Connectors (J2, J3): Standby/Control Output Connector (J4):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND) Connector on PCB: Molex 0705550005 Recommended mate: Molex 0014562062
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1): Main Output Connectors (J2, J3):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND) Connector on PCB: Molex 0705550005 Recommended mate: Molex 0014562062 Pinout: 1: SNS+ 2: SNS- 3: PGOOD 4. EN 5. GND 6. +5VSB Connector on PCB: Molex 22-04-1021
Dimensions: Fan Audible Noise Specification: Input/Output Connectors Input Connector (J1): Main Output Connectors (J2, J3): Standby/Control Output Connector (J4):	Enclosed version with top-side fan: 6.00" x 4.00" x 2.40" (152.3mm x 101.6mm x 61.0mm 28.5dB(A) (Enclosed version with fan only) Connector on PCB: TE Connectivity/AMP 641966-1 Recommended mate: TE Connectivity/AMP 350766-1 Pinout: 1: Neutral 2: Not used 3: Line Connector on PCB: CNNT ACTB207 (M5 ring terminal), Recommended mounting torque: 2.0Nm Recommended mate: Various, depends on required wire size Pinout: J2: V+ J3: V- (GND) Connector on PCB: Molex 0705550005 Recommended mate: Molex 0014562062 Pinout: 1: SNS+ 2: SNS- 3: PGOOD 4. EN 5. GND 6. +5VSB Connector on PCB: Molex 22-04-1021 Recommended mate: Molex 22-01-1022







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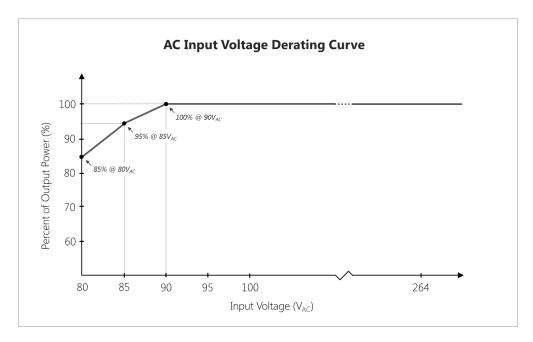
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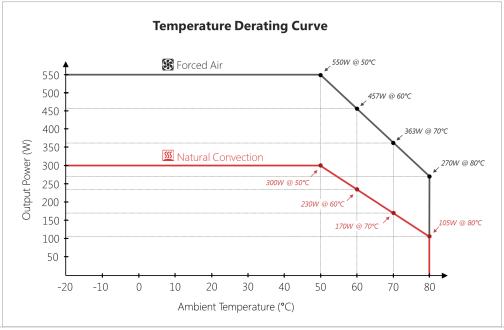


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Model:GTM968000P	May 20, 2024
INPUT CONFIGURATION	
Description	







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Model:GTM968000P	May 20, 2024
Approvals	
Logo	