

GLOBAL PERFORMANCE SWITCHERS

FEATURES:

- 3.6 watts/cu.in. power density
- Compact size (5.0" x 8.0" x 1.75")
- Power factor corrected to IEC 1000-3-2, Class A
- Less than 300 μ A leakage
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- Commercial Approved to UL1950, IEC950, EN60950 and CSA 22.2 No. 950
- Medical Approved to UL2601-1, IEC601-1/60601-1 and CSA-C22.2 No. 601.1
- 2-year warranty
- RoHS Compliant Model Available (G suffix)




SPECIFICATIONS

Ac Input 85-264 Vac, 47-63 Hz single phase.	EMI/EMC Compliance All models include built-in EMI filtering to meet emissions requirements:														
Input Current Maximum input current 3.7 A at 90 Vac, 60 Hz with full rated load. Input current harmonic content meets the requirements of IEC1000-3-2 Class A for all load conditions.	<table> <tr> <th>EMI SPECIFICATIONS</th><th>COMPLIANCE LEVEL</th></tr> <tr> <td>Conducted Emissions GPFC250</td><td>EN55022 Class B; FCC Class B</td></tr> <tr> <td>Conducted Emissions GPFM250</td><td>EN55011 Class B; FCC Class B</td></tr> <tr> <td>Static Discharge</td><td>EN61000-4-2, 6 kV contact, 8 kV air</td></tr> <tr> <td>RF Field Susceptibility</td><td>EN61000-4-3, 3 V/meter</td></tr> <tr> <td>Fast Transients/Bursts</td><td>EN61000-4-4, 2 kV, 5 kHz</td></tr> <tr> <td>Surge Susceptibility</td><td>EN61000-4-5, 1 kV diff., 2 kV com.</td></tr> </table>	EMI SPECIFICATIONS	COMPLIANCE LEVEL	Conducted Emissions GPFC250	EN55022 Class B; FCC Class B	Conducted Emissions GPFM250	EN55011 Class B; FCC Class B	Static Discharge	EN61000-4-2, 6 kV contact, 8 kV air	RF Field Susceptibility	EN61000-4-3, 3 V/meter	Fast Transients/Bursts	EN61000-4-4, 2 kV, 5 kHz	Surge Susceptibility	EN61000-4-5, 1 kV diff., 2 kV com.
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Hold-upTime 25 ms minimum from loss of ac input at full load, nominal line (115 Vac). Minimum Load: No minimum load required	Inrush Current Inrush 240 Vac is less than 37 A, averaged over the first ac half-cycle under cold start conditions. Limiting provided by internal thermistors.														
Output Power 250 W fan cooled, 180 W convection. See chart for models under 12 V.	Fan Output An additional 12 Vdc, 250 mA output suitable for powering a dc fan is included in all models.														
Overload Protection Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit or foldback type depending on model and output. Recovery after fault is automatic. Individual output current limits are a function of load distribution and degree of overload.	Thermal Shutdown Provided as a standard feature. Designed to protect unit from prolonged over temperature.														
Output Noise 0.5% rms, 1% pk-pk, 20 MHz Bandwidth, differential mode. Measured with noise probe directly across output terminals of the power supply.	Power Fail TTL or CMOS compatible output goes low (<0.5 V) 8 ms before output voltage drops more than 4% below nominal voltage upon loss of ac power. The signal is factory set to trip when input power can no longer sustain the output.														
Transient Response Main Output—500 μ s typical response time for return to within 0.5% of final value for a 50% load step change, Di/Dt < 0.2 A/ μ s. Maximum voltage deviation is 3.5%.	Temperature Coefficient 0.03% / °C typical on all outputs.														
Remote Sense Provided as a standard feature. Capable of compensating for 0.25 V total of cabling losses in voltage.	Leakage Current 70 μ A under normal conditions (132 Vac @ 60 Hz). Maximum under single fault conditions (264 Vac @ 60Hz), 250 μ A.														
Overvoltage Protection Built in on all models. Output voltage decay is dependent upon loading.	Power Good TTL/CMOS compatible output goes high more than 100 ms after V1 reaches the under voltage threshold and should assure that sufficient energy is stored in the input section to provide normal power fail/shutdown. The signal will fall to a low state (<0.5 V) when V1 goes below 95% of the rated voltage.														
Voltage Adjustment Main output $\pm$ 5%.	External Off TTL/CMOS compatible input shuts down power converter. A logic high (>2.7 V with 400 uA source) shuts down the power converter. A logic low (<0.5 V) or an open circuit allows the supply to run. 3.3 V & 5 V models require 25 mA source.														
Efficiency Minimum 80% on 12-48 V units, 75% on 5 & 3.3 V units at full rated load.															
Input Protection Internal ac fuses provided on all models. Fuses do not blow on overload or short circuit—fuses blow only if catastrophic failure occurs in the unit.															

Commercial Model	Medical Model	RoHS Suffix*	Output No.	Output	Voltage Adjustment	Output Maximum (A)	Output Maximum (B)	OVP Setpoint	Total Regulation	Notes
GPFC250-3.3	GPFM250-3.3	G	1	3.3 V	±5%	36 A	50 A	6.2 ± 0.6 V	2%	C
GPFC250-5	GPFM250-5	G	1	5.1 V	±5%	36 A	50 A	6.2 ± 0.6 V	2%	C
GPFC250-12	GPFM250-12	G	1	12 V	±5%	15 A	21 A	14 ± 1.1 V	2%	C
GPFC250-15	GPFM250-15	G	1	15 V	±5%	12 A	16.7 A	18.5 ± 1.5 V	2%	C
GPFC250-24	GPFM250-24	G	1	24 V	±5%	7.5 A	10.5 A	28 ± 2.5 V	2%	C
GPFC250-28	GPFM250-28	G	1	28 V	±5%	6.5 A	9 A	34 ± 2.8 V	2%	C
GPFC250-48	GPFM250-48	G	1	48 V	±5%	3.8 A	5.3 A	55 ± 4.0 V	2%	C

* Add "G" suffix to part number for RoHS compliant model.

A. Continuous output rating with unrestricted convection cooling.

B. Continuous output rating with 26cfm airflow or "-C" option. Also one minute peak rating for convection cooled.

C. Add "-C" suffix for factory installed cover with fan option.

GPFC250/GPFM250 MECHANICAL SPECIFICATIONS

INPUT:

TB1

6-32, 3 PIN TERMINAL BLOCK 0.375"
PIN 1) AC LINE
PIN 2) AC NEUTRAL
PIN 3) AC GROUND

SIGNALS: J2

AMP P.C.B. HEADER P/N 640456-5
MATING CONNECTOR P/N640440-5
PIN 1) DC GOOD
PIN 2) POWER FAIL
PIN 3) EXT OFF
PIN 4) +SENSE
PIN 5) -SENSE

FAN

AMP P.C.B. HEADER P/N 640456-2
MATING CONNECTOR P/N 640440-2
PIN 1) -
PIN 2) +

OUTPUT:

TB2

6-32, 4 PIN TERMINAL BLOCK 0.375
[9.53mm]CTR
AN OPTIONAL BUS BAR WITH 10-32
SCREWS ON HIGH-CURRENT MODELS
IS AVAILABLE BY ADDING -B TO
MODEL NUMBER
PINS 1-2) +Vout
PINS 3-4) RETURN
16A MAXIMUM RECOMMENDED

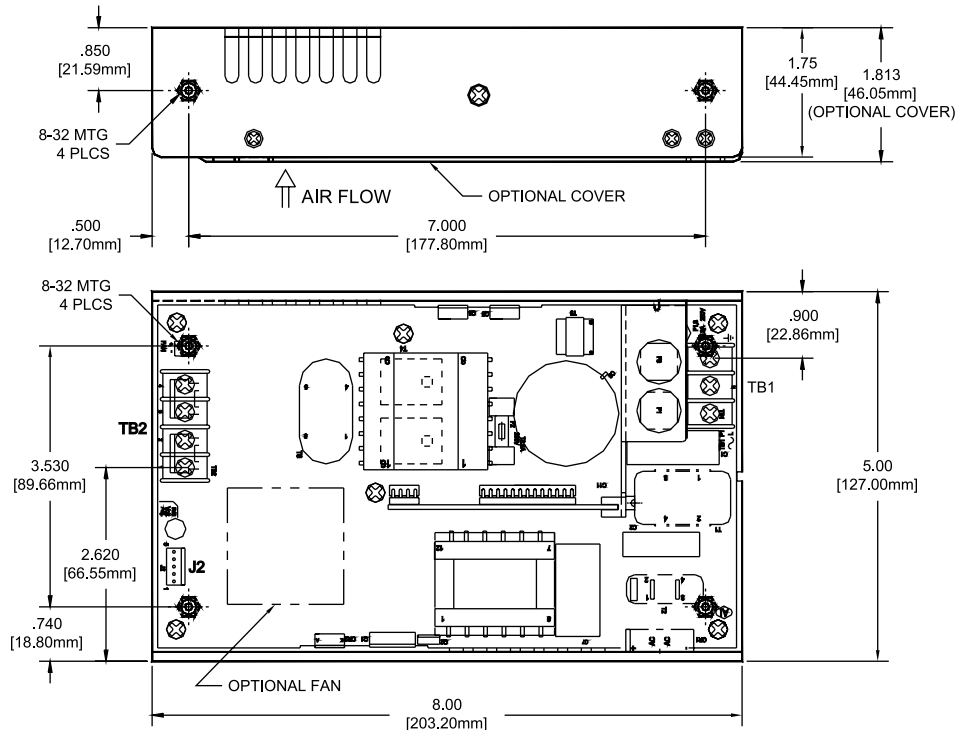
CURRENT PER CONNECTOR PIN.

MAX. SCREW PROTRUSION ABOVE
CHASSIS = 0.120" [3.05MM].

OPTIONAL: COVER/FAN ASSEMBLY #09-250CF
CAN BE INCLUDED BY ADDING -C TO
MODEL NUMBER

WEIGHT: 2.9 LBS. [1.32 kg] MAX.

TOLERANCES: X.XX=0.030 [0.76mm]
X.XXX=0.010 [0.25 mm]



ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (A)	0 to 50°	-40 to +85°C
Humidity (A)	0 to 95% RH	0 to 95% RH
Shock (B)	20 g _{pk}	40 g _{pk}
Altitude	-500 to 10,000 ft	-500 to 40,000 ft
Vibration (C)	1.5 g _{rms} , 0.003 g ² /Hz	5 g _{rms} , 0.026 g ² /Hz

A. Units should be allowed to warm up/operate under non-condensing conditions before application of power. Derate output current and total output power by 2.5% per °C above 50°C.

B. Shock testing—half-sinusoidal, 10 ± 3 ms duration, ± direction, 3 orthogonal axes, total 6 shocks.

C. Random vibration—10 to 2000Hz, 6dB/octave roll-off from 350 to 2000Hz, 3 orthogonal axes. Tested for 10 min./axis operating and 1 hr./axis non-operating.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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