

FEATURES:

- Small package (12.00" x 5.50" x 3.09")
- Power factor corrected to EN61000-3-2 Class A
- Operating range to 60°C ambient
- 85 to 264 Vac Input
- Medically Approved to UL2601-1, IEC601-1, CSA C22.2 No. 601.1.2
- 2 year warranty
- (marked to LVD

SPECIFICATIONS:

Ac Input

85-264 Vac, 47-63 Hz single phase.

Output Power

Continuous output power, 600 watts.

Hold-upTime

20 ms minimum from loss of ac input until output reaches 3% below nominal.

Line and Load Regulation

±1% over the entire input voltage and frequency range, and over the entire output current range.

Minimum Load

No minimum load required.

Overload Protection

Current limit 105% minimum, 125% maximum of the specified full load current.

Output Noise

100 mV pk-pk maximum @ 20 MHz bandwidth, 50 mV pk-pk maximum ripple.

Transient Response

Maximum of 5% change in Vout for a load change of 12.5 A. Recovers to ±1% within 500u sec.

Overvoltage Protection

Built in, OVP crowbar reduces output voltage below nominal rating in less than 50 ms. Output voltage decay is dependent upon loading.

DC Power Good

Optocoupler isolated output indicates that the DC output is equal to or greater than 21.6 (-0 + 0.25) volts. This signal shall be driven when in the active 'DC Good' state.

Efficiency

Minimum of 75% under full load and input of 120 Vac 60 Hz.

Inrush Current

Limit inrush current to 125% of maximum operating current. Turn on time of the power supply not to exceed 3 seconds over the full input voltage and frequency range.

EMI/EMC Compliance

All models include built-in EMI filtering to meet emissions requirements:

EMI SPECIFICATIONS COMPLIANCE LEVEL Conducted Emissions EN55011 Class B; FCC Class B EN61000-4-2, 6 kV contact, 8 kV air Static Discharge 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.

Vibration and Shock

Model meets MIL-STD 810E, method 514.4 Category.

Environmental

Designed for 0 to 60°C operation, derate output current and total output power by 2.5% per °C above 50°C.

Medical Leakage Current

150 µA under normal conditions. Maximum under single fault conditions, 250 µA. Patient sink leakage with 120 Vac, 60 Hz applied to any output with respect to the chassis will be less than 500 µA.

Medical Safety Agency

Approved to UL2601-1, EN60601-1, CSA-C22.2 No. 601.1.

GPFM600 Medical

600 Watt Global Performance Switchers

Commercial Model	Output	Output Maximum(A)	OVP Setpoint	Total Regulation	Noise P-P
GPFM600-24	24 Vdc	25 A	28.2 ± 1.2 V	1%	100 mV

GPFM600 MECHANICAL SPECIFICATIONS

INPUT: J1

MOLEX P/N 43160-31-3

PIN 1: AC LINE PIN 2: AC NEUTRAL PIN 3: EARTH GROUND

OUTPUT: J2

MOLEX P.N. 39-29-1147 14 PIN RIGHT ANGLE HEADER

PIN 1: +24 V PIN 2: +24 V

PIN 3: +24 V RETURN PIN 4: +24 V RETURN

PIN 5: N/A PIN 6: AC GOOD

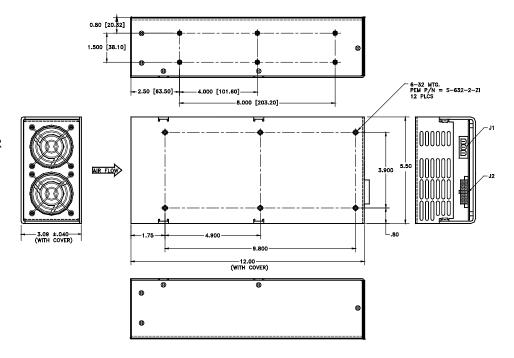
PIN 7: AC GOOD RETURN

PIN 8: +24 V PIN 9: +24 V

PIN 10: +24 V RETURN PIN 11: +24 V RETURN

PIN 12: N/A PIN 13: DC GOOD

PIN 14: DC GOOD RETURN



Environmental Specification	Operating	Non-operating	
Temperature (A)	0 to 60°C	-18 to +60°C	
Humidity (A)	0 to 97% RH	0 to 97% 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	

Dimensions: Inches Millimeters

A. Units should be allowed to warm up/operate under non-condensing conditions before application of power. Cooling provided by internal fan—heatsink temperatures should not exceed 90°C for extended periods in the installation.

B. 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.

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