GPM140 GLOBAL PERFORMANCE SWITCHERS

FEATURES:

- Wide-range AC input 85-264Vac
- 2-year warranty
- Approved to UL2601-1, IEC601-1 and CSA22.2 No. 601
- Exceeds FCC and VDE/CISPR11 Class B/IEC601-1-2
- For commercial version, see p. 28
- CE marked to LVD

SPECIFICATIONS:

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

Input Current
Maximum input current at 120Vac, 60Hz with full rated output load: 3.7A

Hold-Up Time
20mSec minimum from loss of AC input at full load, nominal line (115Vac).

Output Power
140W convection, 160W with 26cfm moving air. Peak ratings are for 60 sec. maximum duration, 10% duty cycle.

Overload Protection
Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit. See output ratings chart for additional notes or conditions.

Overvoltage Protection
Main outputs: 124% ± 12%

Efficiency
65% at full rated load, nominal input voltage, depending on model and load distribution.

Turn-on Time
Less than 1 second at 120Vac, 25°C (inversely proportional to input voltage and thermistor temperature).

Input Protection
Internal AC fuse provided. Designed to blow only if a catastrophic failure occurs in the unit.

Inrush Current
Inrush is limited by internal thermistors. Inrush at 240Vac under cold start conditions will not exceed 60A.

Temperature Coefficient
0.03%/ºC typical on all outputs.

Environmental
Designed for 0 to 50°C operation at full rated output power; derate output current and total output power by 2.5% per °C above 50°C. See Environmental and Packaging Specifications (p. 11) for additional information.

Power Fail
TTL- or CMOS-compatible output goes low (< 0.5V) 5mSec before output voltage drops more than 4% below nominal voltage upon loss of AC power. The signal is factory set to trip on 84 to 94Vac brown-out depending upon incoming line impedance and distortion. Other settings are available to the user through adjustment of built-in potentiometer (consult factory for assistance).

No-Load Turn-on/Standby
No degradation of reliability will occur.

Output Noise
0.5% RMS, 1% Pk-Pk, 20MHz bandwidth, differential mode. Measured with noise probe directly across output terminals of the power supply.

Transient Response
Main output—500 µSec typical response time for return to within 0.5% of final value for a 50% load step change. $\Delta i/\Delta t<0.2A/\mu Sec$. Maximum voltage deviation is 3.5%. Startup/shutdown overshoot less than 3%.

Remote Sense
Provided as a standard feature on single-output models.

Voltage Adjustment
Built-in potentiometer adjusts voltage ±5%.

Reverse Voltage Protection
All outputs protected against inadvertent application of reverse voltage up to 1 times rated current of the reverse output.

Overload Protection
Factory set to begin power limiting at approximately 175W.

EMI/EMC Compliance
All models include built-in EMI filtering to meet the following emissions requirements:

EMI SPECIFICATIONS	COMPLIANCE LEVEL
Conducted Emissions	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.

Leakage Current
60µA. 254Vac @ 60Hz input.

Safety
Approved to UL2601, CSA22.2 No. 601 Level 3 and IEC601. UL file E116994; CSA #LR46516. The output(s) are intended for safety earthed Signal Output and Intermediate Circuits only. The output(s) are not acceptable for patient connection without additional isolation. All DC outputs are SELV under normal and single fault conditions.

Model	Output	Output Minimum	Output Maximum (B)	Output Maximum (C)	Peak	Noise P-P	Total Regulation (A)
GPM140-5	5V	0A	26A	30A	32A	50mV	2%
GPM140-12	12V	0A	11.7A	13.4A	14.6A	120mV	2%
GPM140-15	15V	0A	9.3A	10.7A	11.7A	150mV	2%
GPM140-24	24V	0A	5.8A	6.7A	7.3A	240mV	2%
GPM140-28	28V	0A	5A	5.7A	6.3A	280mV	2%

A. Total regulation is defined as the maximum deviation from the nominal voltage for all steady-state conditions of initial voltage setting, input line voltage and output load.
B. Unrestricted natural convection cooling.
C. Requires 26cfm moving air.

GPM140 MECHANICAL SPECIFICATIONS:

INPUT: J1: AMP P.C.B. HEADER P/N 640445-5

PIN 1)	AC LINE	PIN 4)	N/C
PIN 2)	N/C	PIN 5)	AC GROUND
PIN 3)	AC NEUTRAL		

MATING CONNECTOR AMP P/N: HOUSING 640250-5
CONTACTS 770522-1

TB1: 0.375 X 6-32 TERMINAL BLOCK

PIN 1)	AC LINE
PIN 2)	AC NEUTRAL
PIN 3)	AC GROUND

SIGNALS:J2 AMP PCB HEADER P/N 640456-4

PIN 1)	POWER FAIL
PIN 2)	- SENSE
PIN 3)	+ SENSE
PIN 4)	N/C

MATING CONNECTOR AMP P/N 640440-4

OUTPUT: J3 AMP P.C.B. HEADER P/N 1-640445-6

PIN 1)	+ Vout	PIN 9)	COMMON
PIN 2)	+ Vout	PIN 10)	COMMON
PIN 3)	+ Vout	PIN 11)	COMMON
PIN 4)	+ Vout	PIN 12)	COMMON
PIN 5)	COMMON	PIN 13)	+ Vout
PIN 6)	COMMON	PIN 14)	+ Vout
PIN 7)	COMMON	PIN 15)	+ Vout
PIN 8)	COMMON	PIN 16)	+ Vout

MATING CONNECTOR AMP P/N: HOUSING 1-640250-6
CONTACTS 770522-1

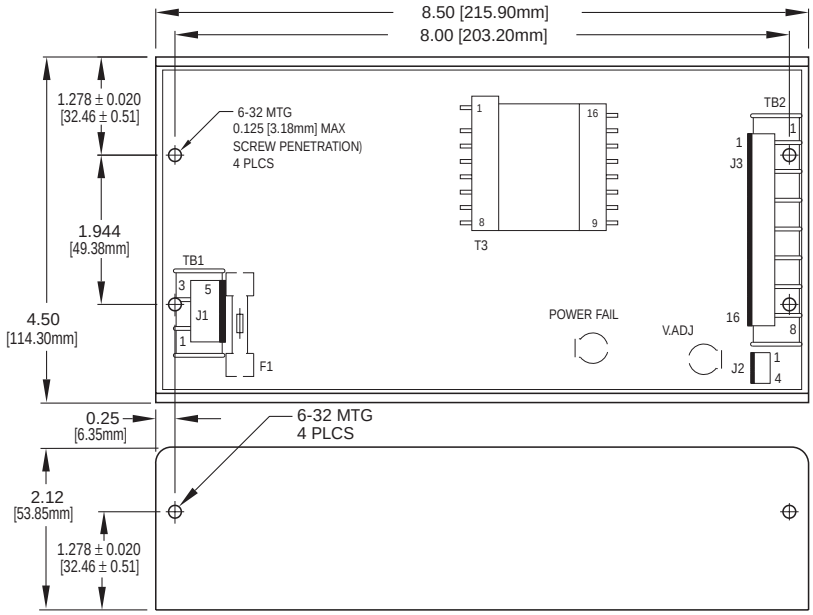
NOTE: 5A MAX. RECOMMENDED CURRENT PER CONNECTOR PIN

TB2: 0.375 X 6-32 TERMINAL BLOCK

PIN 1)	+ Vout	PIN 5)	COMMON
PIN 2)	+ Vout	PIN 6)	COMMON
PIN 3)	COMMON	PIN 7)	+ Vout
PIN 4)	COMMON	PIN 8)	+ Vout

OPTIONAL COVER AVAILABLE, ORDER P/N 08-30466-1140
OPTION: ADD "-T" SUFFIX TO PART NUMBER FOR
6-32 SCREW TERMINAL BLOCK ON I/O

WEIGHT: 3.0 LBS MAX. [1.36 kg MAX.]
TOLERANCES: X.XX=0.030 [0.76mm]
X.XXX=0.010 [0.25mm]



MEDICAL GLOBAL PERFORMANCE SWITCERS