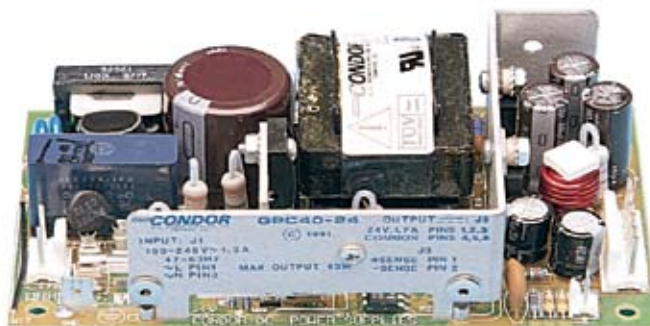


GLOBAL PERFORMANCE SWITCHERS

Summary:

- Wide-range ac input 85-264 Vac
- 2-year warranty
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- Single and multiple outputs
- Commercial Approved to UL1950, EN60950 E3:2000 and CSA-C22.2 No. 234
- Medical Approved to UL2601-1, EN60601-1 and CSA22.2 No. 601
- Single and multiple outputs
- RoHS compliant models available (G suffix)
- CE marked to LVD



SPECIFICATIONS

Ac Input 85-264 Vac, 47-63 Hz single phase.
Input Current Maximum input current at 120 Vac, 60 Hz with full rated output load: 1.3 A
Hold-Up Time 20 ms minimum from loss of ac input at full load, nominal line (115 Vac).
Output Power 40 W continuous, 50 W peak. Peak ratings are for 60 s maximum duration, 10% duty cycle. During peak load condition, output regulation may exceed total regulation limits.
Overload Protection Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit on outputs 1 & 2; foldback type on output 3. Recovery after fault is automatic. See output ratings chart for additional notes or conditions.
Overvoltage Protection. Main outputs: 124% ± 12%.
Efficiency 70% at full rated load, nominal input voltage, depending on model and load distribution.
Turn-on Time Less than 1 second at 120 Vac, 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 240 Vac under cold start conditions will not exceed 34 A.
Temperature Coefficient 0.03%/°C 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.

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.																
Transient Response Main output—500 μs typical response time for return to within 0.5% of final value for a 50% load step change. $\Delta i / \Delta t < 0.2 \text{ A}/\mu\text{s}$. 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 main output voltage ±5%.																
EMI/EMC Compliance All models include built-in EMI filtering to meet the following emissions requirements:																
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Commercial Safety Approved to UL1950, CSA22.2 No. 950, IEC950, EN60950. All dc outputs are SELV under normal and single fault conditions.																
Medical Leakage Current The maximum leakage current is as follows:																
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Commercial Model	Medical Model	Output No.	Output	Output Minimum	Output Maximum	Output Peak	Noise P-P	Total Regulation	Notes
GPC40A	GPM40A	1	+5.1 V	0.4 A	4 A	5 A	50 mV	2%	
		2	+12 V	0 A	2 A	3 A	120 mV	5%	B,C
		3	-12 V	0 A	0.4 A	0.7 A	120 mV	3%	C
GPC40B	GPM40B	1	+5.1 V	0.4 A	4 A	5 A	50 mV	2%	
		2	+15 V	0 A	2 A	3 A	150 mV	5%	B,C
		3	-15 V	0 A	0.4 A	0.7 A	150 mV	3%	C
GPC40D	GPM40D	1	+5.1 V	0.4 A	4 A	5 A	50 mV	2%	
		2	+24 V	0 A	1 A	1.5 A	240 mV	5%	B,C
		3	-12 V	0 A	0.4 A	0.7 A	120 mV	3%	C
GPC40-3.3	GPM40-3.3	1	3.3 V	0	8 A	10 A	35 mV	2%	
GPC40-5	GPM40-5	1	5 V	0	8 A	10 A	50 mV	2%	
GPC40-9	GPM40-9	1	9 V	0 A	4.5 A	6 A	90mV	2%	
GPC40-12	GPM40-12	1	12 V	0 A	3.3 A	4.2 A	120 mV	2%	
GPC40-15	GPM40-15	1	15 V	0 A	2.7 A	3.3 A	150 mV	2%	
GPC40-24	GPM40-24	1	24 V	0 A	1.7 A	2.1 A	240 mV	2%	
GPC40-28	GPM40-28	1	28 V	0 A	1.4 A	1.8 A	280 mV	2%	

Note: For 48 volt model, GPC40-48 or GPM40-48, contact factory for availability.

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. To maintain these regulation conditions, the 5.1V current must be at least 1/4 of V2 and not greater than 5 times the V2 current.

C. Requires +5.1V to be adjusted within ±1% with at least a 0.4A load to maintain regulation on this output.

D. Add "G" suffix to model number for RoHS compliant model.

GPC40/GPM40 MECHANICAL SPECIFICATIONS

J1 CONNECTOR: AMP P/N 640445-3, W/CENTERPIN REMOVED
0.156 [3.96mm] CTR HEADER

J2 CONNECTOR: AMP P/N 640445-6
0.156 [3.96mm] CTR HEADER

GND 0.250 FASTONTAB

INPUT J1

PIN 1) AC LINE
PIN 3) AC NEUTRAL
⊕ GND

OUTPUT:

J2	MULTIPLE OUTPUT MODELS	SINGLE OUTPUT MODELS
PIN 1)	OUTPUT #2	OUTPUT #1
PIN 2)	OUTPUT #1	OUTPUT #1
PIN 3)	OUTPUT #1	OUTPUT #1
PIN 4)	COMMON	COMMON
PIN 5)	COMMON	COMMON
PIN 6)	OUTPUT #3	COMMON

J3 REMOTE SENSE (SINGLE OUTPUT MODELS ONLY)

AMP P/N 640456-2 0.100 [2.54mm] CTR HEADER

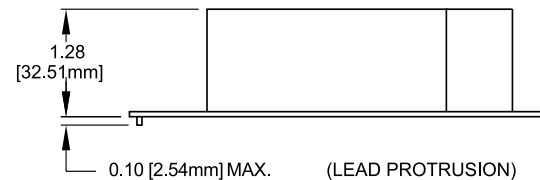
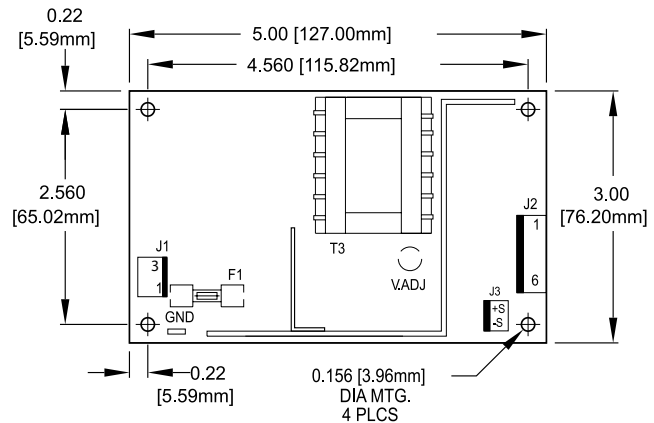
MATING CONNECTORS AMP P/N

HOUSING	CONTACT
INPUT 640250-3	770476-1
OUTPUT 640250-6	770476-1

NOTE: 5A MAXIMUM RECOMMENDED CURRENT PER CONNECTOR PIN

WEIGHT: 1.0 LBS MAX. [0.45 kg MAX.] TOLERANCES: X,XX=0.030
X,XXX=0.010 [0.25mm]

OPTION: ENCLOSURE (P/N 08-30466-1040)



ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (A)	See individual specs.	-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.

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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