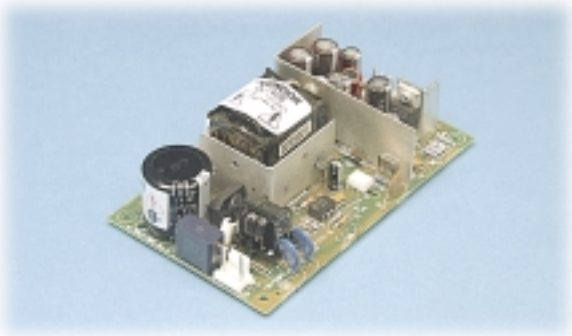
GLC40 Commercial
40 Watt Global Performance Switchers



FEATURES:

- Cost-effective power source
- Universal input 90-264 Vac
- 2-year warranty
- Single and multiple outputs
- Overload and overvoltage protection
- Built-in EMI filter
- UL1950, CSA-C22.2 No. 234 Level 3, IEC950 and EN60950
- Operation at no-load
- CE marked to LVD

SPECIFICATIONS:

Ac Input
90-264 Vac, 47-63 Hz single phase.

Input Current
Maximum input current at 120 Vac, 60 Hz with full rated output load not to exceed 1.3 A.

Output Power
Normal continuous output power is 40 W for unrestricted natural convection cooling, 45 W peak for 60 seconds. During peak load conditions output regulation may exceed total regulation and noise limits.

Output Regulation
Regulation for multiple-output models measured by ±40% load change from 60% rated load with all other outputs at 60% full rated load and a line voltage change from low line to high line. Initial set tolerance is measured with all outputs at 60% of full rated load. Output voltage V1 requires 20% load for proper regulation of multiple-output models. Regulation for single-output models measured by changing from 5% to 50% load or 50% load to full load in either direction.

Power Limit
Factory set to begin power limiting at approximately 55 W. Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit.

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, $\Delta i/\Delta t<0.2$ A/µs. Maximum voltage deviation is 3.5%. Startup/shutdown overshoot less than 3%.

Overvoltage Protection
Built in on V1 with firing point set per table. OVP firing reduces output #1 and #2 to less than 50% of nominal voltage in 50 ms.

Voltage Adjust
Factory set on standard unit; however, optional potentiometer adjusts voltage from 4.7 V to OVP point (6.2 V nominal) on the +5 V output.

Efficiency
70% typical depending on model.

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 on all units. Designed to blow only if a catastrophic failure occurs in the unit. Fuse does not blow on overload or short circuit.

Inrush Current
Inrush limited by internal thermistors. Inrush at 240 Vac, averaged over the first ac half-cycle under cold start conditions will not exceed 37 A.

Temperature Coefficient
0.03%/°C typical on all outputs.

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

EMI SPECIFICATIONS	COMPLIANCE LEVEL
Conducted Emissions	EN55022 Class A; FCC Class A
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.

Safety
All GLC models are approved to UL1950, CSA-C22.2 No. 234 Level 3, IEC950 and EN60950.

CONDOR

GLC40 Commercial 40 Watt Multiple Output

Commercial Model	Output No.	Output	Output Minimum	Output Maximum	V1 OVP Set	Noise P-P	Total Regulation
GLC40A	1	+5.1 V	1 A	3 A	+6.2 ± 0.6 V	50 mV	2%
	2	+12 V	0 A	2 A		120 mV	6%
	3	-12 V	0 A	0.4 A		120 mV	5%
GLC40B	1	+5.1 V	1 A	3 A	+6.2 ± 0.6 V	50 mV	2%
	2	+15 V	0 A	1.5 A		150 mV	6%
	3	-15 V	0 A	0.4 A		150 mV	5%
GLC40D	1	+5 V	1 A	3 A	+6.2 ± 0.6 V	50 mV	2%
	2	+24 V	0 A	1 A		240 mV	6%
	3	-12 V	0 A	0.4 A		120 mV	5%
GLC40-3.3	1	3.3 V	0 A	8 A	+4.2 ± 0.6 V	33 mV	2%
GLC40-5	1	5 V	0 A	8 A	+6.2 ± 0.6 V	50 mV	2%
GLC40-12	1	12 V	0 A	3.3 A	+14 ± 1.1 V	120 mV	2%
GLC40-15	1	15 V	0 A	2.7 A	+18.5 ± 1.5 V	150 mV	2%
GLC40-24	1	24 V	0 A	1.7 A	+28.5 ± 2.5 V	240 mV	2%
GLC40-28	1	28 V	0 A	1.4 A	+34 ± 2.8 V	280 mV	2%
GLC40-48	1	48 V	0 A	0.83 A	+55 ± 4.0 V	480 mV	2%

GLC40 MECHANICAL SPECIFICATIONS

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

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

INPUT: J1 PIN 1) AC LINE
PIN 2) AC NEUTRAL
⏚ GND

OUTPUT:

J2	MULTI 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

MATING CONNECTORS AMP P/N

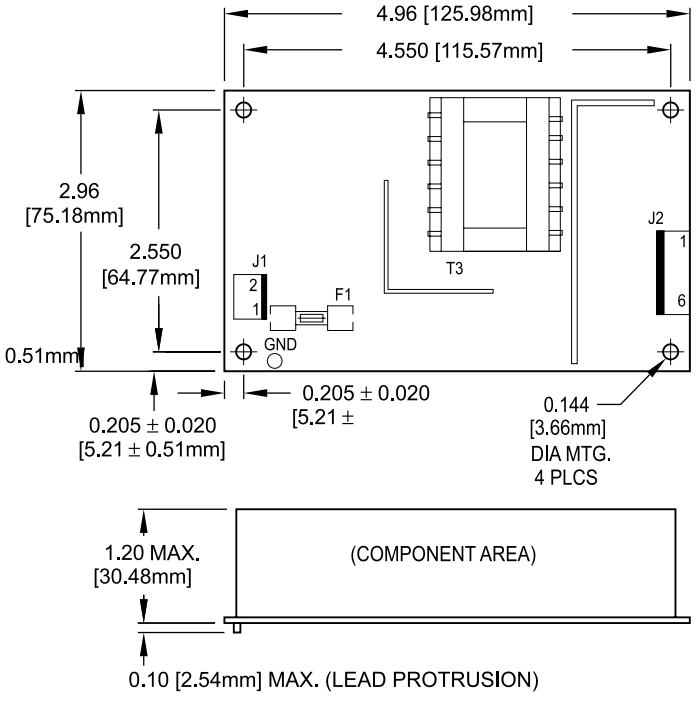
	HOUSING	CONTACT
INPUT	640250-3	770476-1
OUTPUT	640250-6	770476-1

NOTE: 5A MAXIMUM RECOMMENDED CURRENT PER CONNECTOR PIN

OPTIONAL ENCLOSURE (P/N 08-30466-1040)

WEIGHT: 1.0 LBS MAX. [0.45 kg MAX.]

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



Environmental Specification	Operating	Non-operating
Temperature (A)	0 to 50ºC	-40 to +85ºC
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. 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, ± direction, 3 orthogonal axes, total 6 shocks.

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