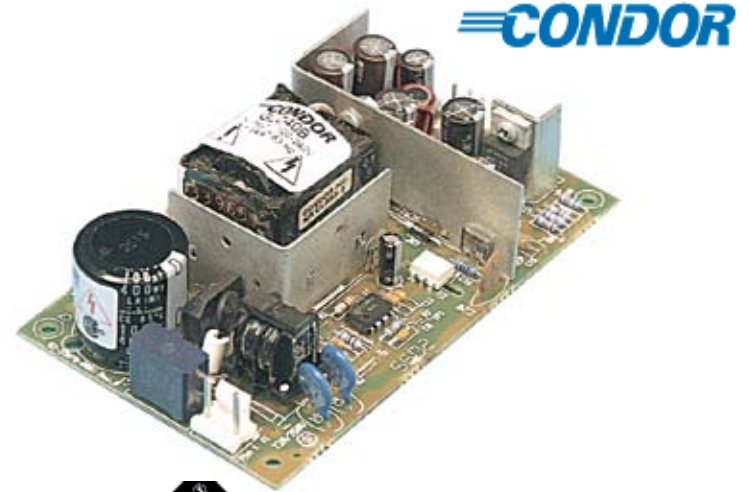


### GLOBAL PERFORMANCE SWITCHERS

#### 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 (single output models)
- RoHS Compliant (with G suffix)
- CE marked to LVD



### SPECIFICATIONS

<p><b>Ac Input</b> 90-264 Vac, 47-63 Hz single phase.</p>	<p><b>Voltage Setting</b> Factory set on standard units with fixed resistors for added reliability. 3.3 V unit has voltage adjustment pot.</p>												
<p><b>Input Current</b> Maximum input current at 120 Vac, 60 Hz with full rated output load not to exceed 1.3 A.</p>	<p><b>Efficiency</b> 70% typical depending on model.</p>												
<p><b>Output Power</b> 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.</p>	<p><b>Turn-on Time</b> Less than 1 second at 120 Vac, 25°C (inversely proportional to input voltage and thermistor temperature).</p>												
<p><b>Output Regulation</b> Regulation for multiple-output models measured by <math>\pm 40\%</math> 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 1 A 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.</p>	<p><b>Input Protection</b> 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.</p>												
<p><b>Power Limit</b> 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.</p>	<p><b>Inrush Current</b> 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.</p>												
<p><b>Output Noise</b> 0.5% rms, 1% pk-pk, 20 MHz bandwidth, mode. Measured with noise probe terminals of the power supply.</p>	<p><b>Temperature Coefficient</b> 0.03%/°C typical on all outputs.</p>												
<p><b>Transient Response</b> Main Output: 500 <math>\mu</math>s typical response time for return to within 0.5% of final value for a 50% load step change, <math>\Delta I / \Delta t &lt; 0.2</math> A/<math>\mu</math>s. Maximum voltage deviation is 3.5%. Startup/ shutdown overshoot less than 3%.</p>	<p><b>EMI/EMC Compliance</b> All models include built-in EMI filtering to meet the following emissions requirements:</p> <table border="1"> <thead> <tr> <th>EMI SPECIFICATIONS</th> <th>COMPLIANCE LEVEL</th> </tr> </thead> <tbody> <tr> <td>Conducted Emissions</td> <td>EN55022 Class A; FCC Class A</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> </tbody> </table>	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.
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<p><b>Overvoltage Protection</b> 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.</p>	<p><b>Safety</b> All GLC40 models are approved to UL1950, CSA-C22.2 No. 234 Level 3, IEC950 and EN60950. Class I input.</p>												

All specifications are typical at nominal input, full load at 25°C unless otherwise stated

Commercial Model	Output No.	Output	Output Minimum	Output Maximum	V 1 OVP Set	Noise P-P	Total Regulation
GLC40AG	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%
GLC40BG	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%
GLC40DG	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%
GLC40-3.3G	1	3.3 V	0 A	8 A	4.2 ± 0.6 V	33 mV	2%
GLC40-5G	1	5 V	0 A	8 A	6.2 ± 0.6 V	50 mV	2%
GLC40-9G	1	9 V	0 A	4.4 A	11 ± 0.9 V	90 mV	2%
GLC40-12G	1	12 V	0 A	3.3 A	14 ± 1.1 V	120 mV	2%
GLC40-13.8G	1	13.8 V	0 A	2.9 A	17.7 +/- 1.5 V	138 mV	2%
GLC40-15G	1	15 V	0 A	2.7 A	18.5 ± 1.5 V	150 mV	2%
GLC40-24G	1	24 V	0 A	1.7 A	28.5 ± 2.5 V	240 mV	2%
GLC40-28G	1	28 V	0 A	1.4 A	34 ± 2.8 V	280 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]

