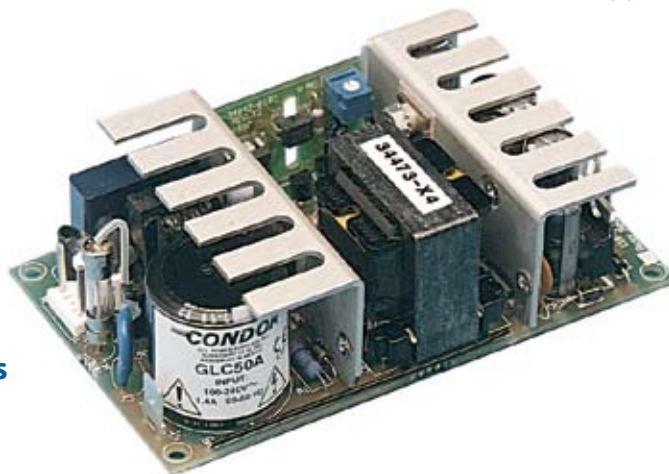


GLOBAL PERFORMANCE SWITCHERS

Features:

- Cost-effective power source
- Universal input 90-264 Vac
- 2-year warranty
- Compact (4.25" x 2.50" x 1.25"; meets 1U applications)
- Overload and overvoltage protection
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- Commercial UL/CSA/IEC60950-1, EN60950 approvals
- Medical UL/EN/IEC60601-1, CSA22.2 No. 601,
- RoHS compliant models available (G suffix)
- C marked to LVD

CONDOR
DC Power Supplies



SPECIFICATIONS

Ac Input 90-264 Vac, 47-63 Hz single phase..	Temperature Coefficient 0.03%/°C typical on all outputs.														
Input Current Maximum input current at 120 Vac, 60 Hz with full rated output load: 1.5 A	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.														
Hold-Up Time 15 ms minimum from loss of ac input at full load, nominal line (115 Vac).	Transient Response 500 μ s 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/ μ s. Maximum voltage deviation is 3.5%. Startup/shut-down overshoot less than 3%.														
Output Power 50 W continuous, 60 W peak. Peak ratings are for 60 s maximum duration, 10% duty cycle. During peak load condition, output regulation may exceed total regulation limits.	Voltage Adjustment Built-in potentiometer adjusts V1 $\pm 5\%$.														
Output Regulation To maintain specified regulation on multi-output models, output #1 load power must be at least 1/5th of, and not greater than 5 times output #2 load power.	EMI/EMC Compliance All models include built-in EMI filtering to meet the following emissions requirements:														
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.	<table border="1"> <thead> <tr> <th>EMI SPECIFICATIONS</th><th>COMPLIANCE LEVEL</th></tr> </thead> <tbody> <tr> <td>Conducted Emissions GLC</td><td>EN55022 Class B; FCC Class B</td></tr> <tr> <td>Conducted Emissions GLM</td><td>EN55011 Class B; FCC Class B</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 GLC	EN55022 Class B; FCC Class B	Conducted Emissions GLM	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.
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Surge Susceptibility	EN61000-4-5, 1 kV diff., 2 kV com.														
Efficiency 70-85% at full rated load, nominal input voltage, depending on model and load distribution.	Commercial Leakage Current 160 μ A 254 Vac @ 60 Hz input (with no deviations).														
Minimum Load Operating without minimum load will not degrade reliability, but regulation may be affected. Multiple output models require 20% minimum load on V1 for proper regulation. Single models require 5% minimum load when a transient load greater than 30% is applied or removed, but will operate without load.	Commercial Safety All GLC models are approved to UL1950, CSA22.2 No. 234 Level 3, IEC950 and EN60950.														
Input Protection Internal ac fuse provided. Designed to blow only if a catastrophic failure occurs in the unit—fuse does not blow on overload or short circuit.	Medical Leakage Current 100 μ A 264 Vac @ 60 Hz input (normal conditions).														
Inrush is limited by internal thermistors. Inrush at 240 Vac, averaged over the first ac half-cycle under cold start conditions will not exceed 37 A.	Medical Safety All GLM50 models are approved to UL/EN/IEC60601-1, CSA22.2 No. 601.														

Commercial Model	Medical Model	Output No.	Output	Current	Minimum Load (B)	OVP Setpoint	Noise P-P	Total Regulation (A)
GLC50A	GLM50A	1	+5.05 V	4 A	0.8 A	6.2 ± 0.6 V	50 mV	2%
		2	+12 V	2.5 A			120 mV	+10%,-5%
		3	-12 V	0.2 A			120 mV	3%
GLC50B	GLM50B	1	+5.05 V	4 A	0.8 A	6.2 ± 0.6 V	50 mV	2%
		2	+15 V	2.5 A			150 mV	+10%,-5%
		3	-15 V	0.2 A			150 mV	3%
GLC50D	GLM50 D	1	+5.05 V	4 A	0.8 A	6.2 ± 0.6 V	50 mV	2%
		2	+24 V	1.5 A			240 mV	+10%,-5%
		3	-12 V	0.2 A			120 mV	3%
GLC50G	GLM50G	1	+3.3 V	4 A	0.8 A	4.2 ± 0.6 V	33 mV	2%
		2	+12 V	2.5 A			120 mV	+10%-5%
		3	-12 V	0.2 A			120 mV	3%
GLC50-3.3	GLM50-3.3	1	3.3 V	8 A	0.2	4.2 ± 0.6 V	66 mV	2%
GLC50-5	GLM50-5	1	5.1 V	8 A	0.4	6.2 ± 0.6 V	75 mV	2%
GLC50-12	GLM50-12	1	12 V	4.2 A	0.2	14 ± 1.1 V	120 mV	2%
GLC50-15	GLM50-15	1	15 V	3.3 A	0.16	18.5 ± 1.5 V	150 mV	2%
GLC50-24	GLM50-24	1	24 V	2.1 A	0.1	28 ± 2.5 V	240 mV	2%
GLC50-28	GLM50-28	1	28 V	1.8 A	0.09	34.5 ± 2.8 V	280 mV	2%
GLC50-48	GLM50-48	1	48 V	1.1 A	0.05	54 ± 3.0 V	480 mV	2%

Notes:

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 specified regulation on multi-output models, output #1 load power must be at least 1/5th of, and not greater than 5 times output #2 load power.

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

GLC50 MECHANICAL SPECIFICATIONS

INPUT J1:

AMP P/N 640445-3, 0.156 CTR 0.045

SQUARE PIN HEADER

PIN 3) AC NEUTRAL

PIN 2) NO PIN

PIN 1) AC LINE

OUTPUT J2:

AMP P/N 640445-6, 0.156 CTR 0.045

SQUARE PIN HEADER

MULTIPLE OUTPUT SINGLE OUTPUT

PIN 1) OUTPUT #2 PIN 1-3) OUTPUT

PIN 2) OUTPUT #1 PIN 3) OUTPUT #1

PIN 3) OUTPUT #1 PIN 4-6) RETURN

PIN 4) COMMON

PIN 5) COMMON

PIN 6) OUTPUT #3

MATING CONNECTORS: AMP P/N

HOUSING CONTACTS

INPUT 640250-3 770476-1

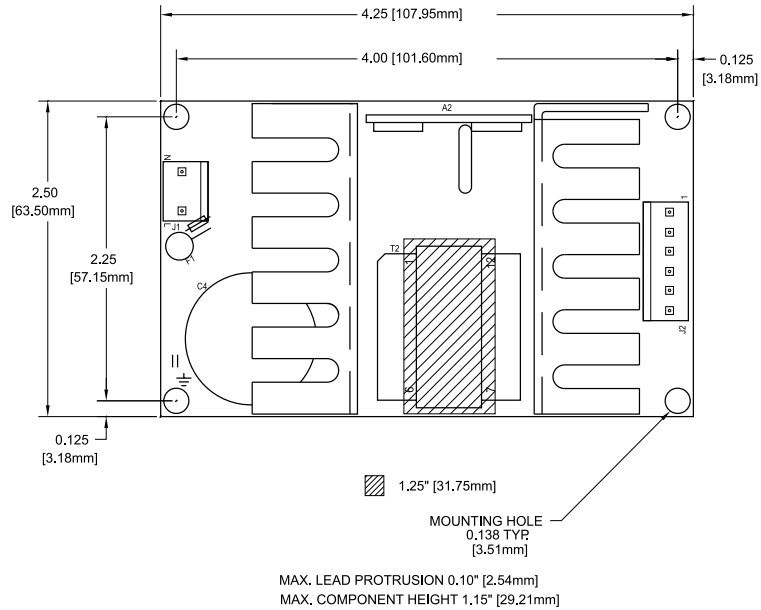
OUTPUT 640250-6 770476-1

NOTE: 5A MAXIMUM RECOMMENDED CURRENT PER CONNECTOR PIN

WEIGHT 5 OZ. [0.142 KG]

TOLERANCES: X.XX=0.030 [0.76mm]

X.XXX=0.010 [0.25mm]



ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (A)	0 TO 50°C	-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. derate output current and total output power by 2.5% per °C above 50°C.

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.