GLC65 Commercial/GLM65 Medical

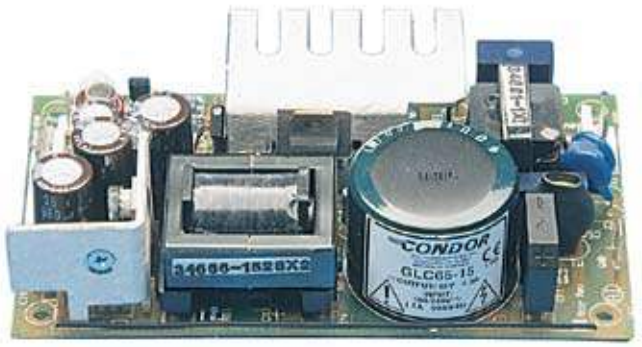
65 Watt Single Output Global Performance Switchers

GLOBAL PERFORMANCE SWITCHERS

CONDOR

FEATURES:

- 4.1 W/in3
- Compact (3.0" x 5.0" x 1.06")
- Ultra-high efficiency (up to 94%) using patented technology
- Meets harmonic requirements of IEC1000-3-2, Class A
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- 2-year warranty
- Exempt from line harmonics standard EN61000-3-2
- Commercial Approved to UL1950, IEC950, EN60950, CSA22.2 No. 950
- Medical Approved to UL2601, EN60601, CSA22.2 No. 601.1
- Multiple output versions also available
- RoHS models available (G suffix)
- CE marked to LVD



SPECIFICATIONS

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

Input Current
Maximum input current at minimum output voltage and output overload will be less than 1.7 A. Meets input current harmonic requirements of IEC1000-3-2.

Output Power
Normal continuous output power is 65 W, 75 W peak for 60 s. The 3.3 Vdc unit is 36.3 W and the 5 Vdc unit is 55 W continuous.

Hold-Up Time
20 ms from loss of ac input at 65 W load, from 120 Vac input.

Overload Protection
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 scope probe directly across output terminals of the power supply with load terminated with 0.1 µF capacitor.

Transient Response
Main output: 500 µs typical response time for return to within 0.5% of final value for a 50% load step within the regulation limits of minimum and maximum load, $\Delta i/\Delta t<0.2$ A/µs. Maximum voltage deviation is 3.5%. Startup/shutdown overshoot less than 3%.

Voltage Adjustment
Adjustable potentiometer capable of ±5% change from nominal setting.

Efficiency
82 to 94% minimum at full rated load, nominal input voltage, depending on model.

Minimum Load
No minimum load required.

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

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

EMI SPECIFICATIONS	COMPLIANCE LEVEL
Conducted Emissions GLC65	EN55022 Class B; FCC Class B
Conducted Emissions GLM65	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.

Commercial Leakage Current
Under normal conditions, leakage current is 425 µA with 132 Vac @ 60 Hz input.

Commercial Safety
All GLC models are approved to UL1950, CSA22.2 No. 950, IEC950 and EN60950.

Medical Leakage Current
The maximum leakage current under single-fault conditions (254 Vac @ 50 Hz) is 120 µA. Under normal conditions, leakage current is 31µA with 132 Vac @ 60 Hz input.

Medical Safety
All GLM models are approved to UL2601, CSA22.2 No. 601, IEC601-1 and EN60601. Consult factory for approval status.

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

Remote Sense
Provided as standard feature on all models. Includes open sense protection.

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

Commercial Model	Medical Model	Output	Current	Total Regulation	V1 Adjustment	V1 OVP Setpoint	Ripple and Noise
GLC65-5	GLM65-5	5.1 V	9/11 A *	2%	±5%	6.2 ± 0.6 V	1%
GLC65-12	GLM65-12	12 V	5.5 A	2%	±5%	14 ± 1.1 V	1%
GLC65-15	GLM65-15	15 V	4.3 A	2%	±5%	18.5 ± 1.5 V	1%
GLC65-18	GLM65-18	18 V	3.6 A	2%	±5%	21.7 ± 2.0 V	1%
GLC65-20	GLM65-20	20V	3.25 A	2%	±5%	24.5 ± 2.2 V	1%
GLC65-24	GLM65-24	24 V	2.7 A	2%	±5%	28 ± 2.5 V	1%
GLC65-28	GLM65-28	28 V	2.3 A	2%	±5%	34 ± 2.8 V	1%
GLC65-48	GLM65-48	48 V	1.35 A	2%	±5%	55 ± 4.0 V	1%

- **Note:**

*** 9 A convection, 11 A with fan cooling**

GLC65/GLM65 - SINGLE OUTPUT - MECHANICAL SPECIFICATIONS

INPUT J1:
AMP P/N 640445-3, .156 [3.96mm] CTR,
0.045 [1.14mm] SQUARE PIN HEADER

PIN 3) AC NEUTRAL
PIN 2) NO PIN
PIN 1) AC LINE

OUTPUT J2:
AMP P/N 640445-6, .156 [3.96mm] CTR,
0.045 [1.14mm] SQUARE PIN HEADER

PIN 1-3) OUTPUT
PIN 4-6) COMMON
GND: 0.250" FASTON TAB

SENSE J3:
AMP P/N 640456-2, .100 [2.54mm] CTR,
0.025 [0.64mm] SQUARE PIN HEADER

PIN 1) +SENSE
PIN 2) -SENSE

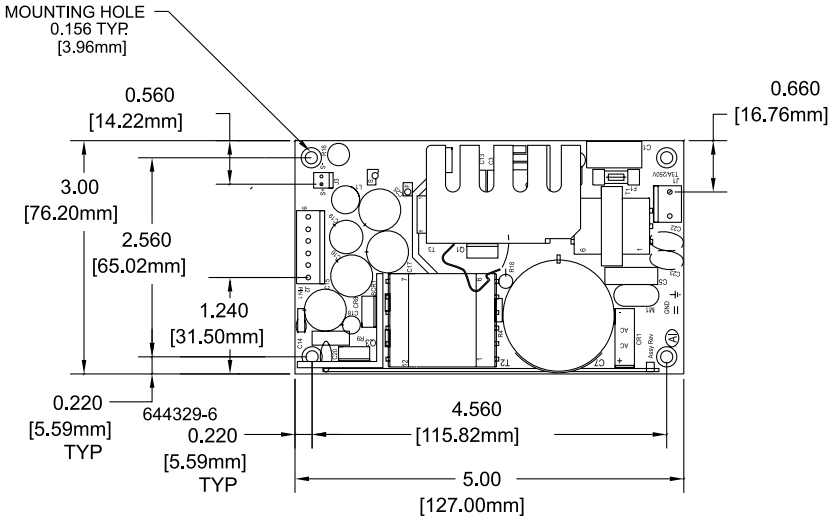
MATING CONNECTORS: AMP P/N

	HOUSING	CONTACTS
INPUT	640250-3	770476-1
OUTPUT	640250-6	770476-1
SENSE	640440-2	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)



MAX. COMPONENT HEIGHT1.20" [30.28 mm]
MAX. LEAD PROTRUSION 0.10" [2.54mm]

ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (A)	0 to 50°	-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 1hr./axis non-operating.

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