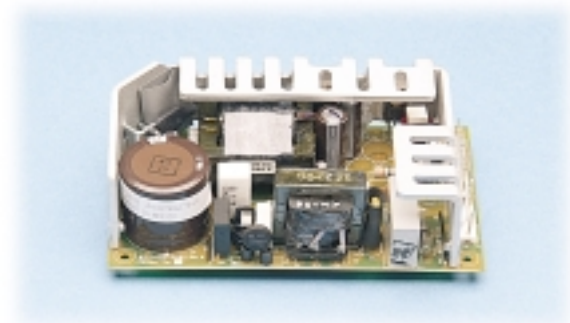


# GLC75 Commercial/GLM75 Medical

## 75 Watt Single Output Global Performance Switchers



### 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 2.3 A.

#### Output Power

Normal continuous output power is 75 W for unrestricted natural convection cooling; 110 W with 26 cfm airflow.

#### Output Regulation

Regulation measured by changing from 5% to 50% load or 50% load to full load in either direction.

#### Overload Protection

Factory set to begin power limiting at approximately 120 W (GLC 75-5 is set at approximately 100 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  $\mu$ 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/ $\mu$ s. Maximum voltage deviation is 3.5%. Startup/shutdown overshoot less than 3%.

#### Overvoltage Protection

Standard on all models.

#### Voltage Adjust

Factory set on standard unit; however, potentiometer adjusts voltage  $\pm 5\%$  minimum. Consult factory for application assistance.

#### Efficiency

72-85% depending on model.

#### 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.

### FEATURES:

- Cost-effective single-output power source
- 3.4" x 5.75" x 1.56" (meets 1U applications)
- Universal input 90-264 Vac
- 2-year warranty
- Complies with EN61000-3-2 Class A
- Also available in multiple output versions
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- [Commercial Approved to UL1950, CSA22.2 No. 234 and IEC950, EN60950](#)
- [Medical Approved to UL2601-1, IEC601-1 and CSA22.2 No. 601](#)
-  marked to LVD

#### 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.

#### Power Fail

A standard TTL or CMOS compatible output goes low ( $< 0.5$  V) 5ms before output voltage drops more than 4% below nominal voltage upon loss of ac power. Signal is factory set to trip on 84 to 94 Vac brown-out depending upon incoming line impedance and distortion. Other settings are available through adjustment of built-in potentiometer (consult factory for assistance). Output will stay low for 20 ms minimum.

#### EMI/EMC Compliance

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

| EMI SPECIFICATIONS        | COMPLIANCE LEVEL                    |
|---------------------------|-------------------------------------|
| Conducted Emissions GLC75 | EN55022 Class B; FCC Class B        |
| Conducted Emissions GLM75 | 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.  |
| Line Frequency Harmonics  | EN61000-3-2 Class A                 |

#### Commercial Safety

All GLC models are approved to UL1950, CSA22.2 No. 234 Level 3, IEC950 and EN60950. Consult factory for approval status.

#### Medical Leakage Current

70  $\mu$ A 264 V @ 50 Hz (normal conditions).

#### Medical Safety

All GLM models are approved to UL2601-1, CSA-C22.2 No. 601.1, IEC601-1 and EN60601-1. Consult factory for approval status.

# GLC75 Commercial/GLM75 Medical 75 Watt Single Output

| Commercial Model | Medical Model | Output | Output Minimum | Output Maximum (A) | Output Maximum (B) | Output Peak | V1 OVP Set   | Noise P-P | Total Regulation |
|------------------|---------------|--------|----------------|--------------------|--------------------|-------------|--------------|-----------|------------------|
| GLC75-5          | GLM75-5       | 5.1 V  | 0 A            | 13.7 A             | 19.6 A             | 21 A        | 6.2 ± 0.6 V  | 50 mV     | 1%               |
| GLC75-12         | GLM75-12      | 12 V   | 0 A            | 6.3 A              | 9.1 A              | 9.5 A       | 15.6 ± 1.1 V | 120 mV    | 1%               |
| GLC75-15         | GLM75-15      | 15 V   | 0 A            | 5 A                | 7.3 A              | 7.7 A       | 18.5 ± 1.5 V | 150 mV    | 1%               |
| GLC75-24         | GLM75-24      | 24 V   | 0 A            | 3.1 A              | 4.6 A              | 5 A         | 28 ± 2.5 V   | 240 mV    | 1%               |
| GLC75-28         | GLM75-28      | 28 V   | 0 A            | 2.7 A              | 4 A                | 4.4 A       | 34 ± 2.8 V   | 280 mV    | 1%               |

A. Rating with unrestricted convection cooling. Total power not to exceed 75 W.

B. Rating with 26 cfm forced-air cooling. Total power not to exceed 110 W.

## GLC75/GLM75 MECHANICAL SPECIFICATIONS

### INPUT: J1

AMP P/N: 643495-2

0.312 CTRS CONNECTOR, 3 CIRCUIT

PIN 1 AC GROUND

PIN 3 AC NEUTRAL

PIN 5 AC LINE

### OUTPUT: J2

AMP P/N: 640445-9

0.156 CTR HEADER

PIN # SINGLE OUTPUT MODELS

1 OUTPUT #1

2 OUTPUT #1

3 OUTPUT #1

4 OUTPUT #1

5 COMMON

6 COMMON

7 COMMON

8 COMMON

9 POWER FAIL

### MATING CONNECTOR AMP P/N'S

HOUSING

INPUT: 640250-5

OUTPUT: 640250-9

CONTACT

INPUT: 770476-1

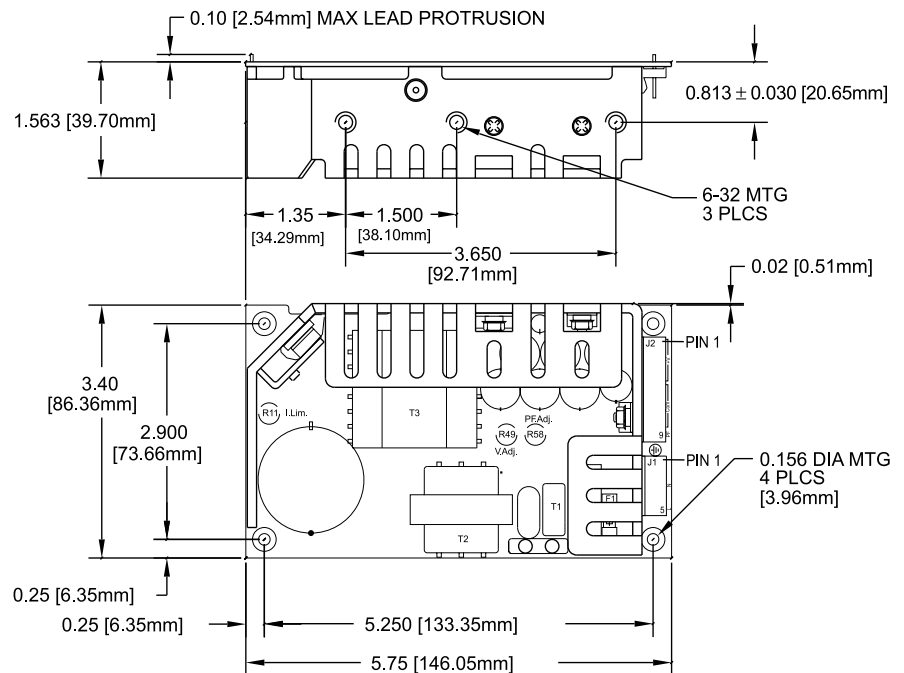
OUTPUT: 770476-1

NOTE: 5A MAXIMUM RECOMMENDED CURRENT PER CONNECTOR PIN.

WEIGHT: 1.0 LBS. MAX. [0.45 kg]

TOLERANCES: X.XX=0.030 [0.76mm]

X.XXX=0.010 [0.25mm]



| Environmental Specification | 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 <sub>pk</sub>                              | 40 g <sub>pk</sub>                            |
| Altitude                    | -500 to 10,000 ft                               | -500 to 40,000 ft                             |
| Vibration (C)               | 1.5 g <sub>rms</sub> , 0.003 g <sup>2</sup> /Hz | 5 g <sub>rms</sub> , 0.026 g <sup>2</sup> /Hz |

A. Units should be allowed to warm up/operate under non-condensing conditions before application of power.

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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