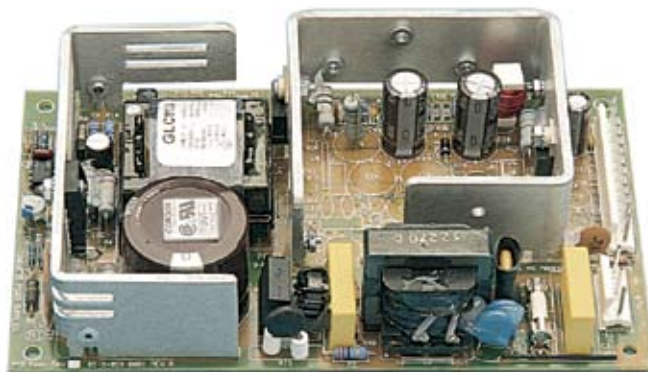


### GLOBAL PERFORMANCE SWITCHERS



#### FEATURES:

- Cost-effective power source
- Single- and dual-output units
- Low height (1.30")
- 2-year warranty
- Power fail signal standard
- Commercial Approved to UL60950-1, EN60950-1, CSA22.2 No. 950-95 3rd Ed.
- Medical Approved to UL2601-1, EN60601-1, CSA-C22.2 No. 601.1
- Complies with EN61000-3-2 Class A
- RoHS Compliant Model Available (G suffix)



#### SPECIFICATIONS

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

**Input Current**  
Maximum input current at 90 Vac, 60 Hz with full rated output load not to exceed 2.9 A.

**Hold-up Time**  
20 ms minimum from loss of ac input at full load, nominal line (120 Vac).

**Output Power**  
Normal continuous output power is 75 W for unrestricted natural convection, or 110 W with 26 cfm air flow.

**Output Regulation**  
Load regulation on dual output models is measured by  $\pm 40\%$  load change from 60% rated load and input voltage change from minimum to maximum ratings.

Output #1 requires 1A minimum load for proper regulation of other outputs. Initial set tolerance is measured with all outputs at 60% of full rated load. Load regulation for single-output models measured by changing load from 5% to 50% load or 50% to full load in either direction.

**Voltage Adjustment**  
Output #1 adjustment is  $\pm 5\%$ . Note: output #1 must not be more than 1% below nominal to achieve full output regulation on output #2. High voltage settings may degrade the reliability of the unit due to excessive power dissipation in some outputs.

**Overload Protection**  
Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit. Factory set to begin power limiting at 120 W.

**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.

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

#### 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%. Turn-On Time less than 1 second at 120 Vac, 25.

**Overvoltage Protection**  
Built in on main output.

**Efficiency**  
72-85% depending on model.

**Input Protection**  
Internal ac fuse provided on all units. Designed to blow only if a catastrophic failure occurs in the unit.

**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 GLC110 | EN55022 Class B; FCC Class B        |
| Conducted Emissions GLM110 | 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 UL60950-1, CSA22.2 No. 950-95 3rd Ed, and EN60950-1.

#### Medical Safety

All GLM models are approved to UL2601-1, CSA-C22.2 No. 601.1, EN60601-1.

