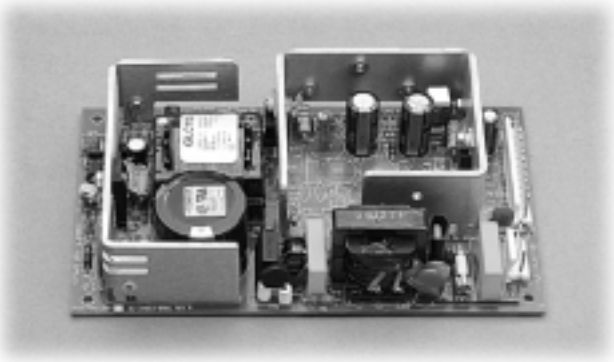
NEW!

GLC110 Commercial/GLM110 Medical
110 Watt Global Performance Switchers



FEATURES:

- **Cost-effective power source**
- **Single- and multiple-output units**
- **Low height (1.30")**
- **2-year warranty**
- **Power fail signal standard**
- **Commercial Approved to UL1950, IEC950 CSA22.2 No. 234**
- **Medical Approved to UL2601, EN60601, CSA22.2 No. 601.1**
- **CE marked to LVD**

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 ±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 ±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 115 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.

Transient Response
Main Output: 500 µs typical response time for return to within 0.5% of final value for a 50% load step change, Di/Dt<0.2 A/µs. Maximum voltage deviation is 3.5%. Startup/shutdown overshoot less than 3%.

Overvoltage Protection
Built in on main output.

Efficiency
72-85% depending on model.

Turn-on Time
Less than 1 second at 120 Vac, 25°C (inversely proportionate to input voltage and thermistor temperature).

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.

Environmental
Designed for 0 to 50°C operation at full rated output power; derate output current and total output power by 2.5% per °C above 50°C. See Environmental and Packaging Specifications see next page.

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

EMI SPECIFICATIONS	COMPLIANCE LEVEL
Conducted Emissions	EN55022 Class B; FCC Class B
Conducted Emissions - Medical	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 Safety
All GLC models are approved to UL1950, CSA22.2 No. 234 Level 3, IEC950 and EN60950. Consult factory for approval status.

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

GLC110 Commercia/GLM110 Medical 110 Watt Single & Multiple Output

Commercial Model	Medical Model	Output No.	Output	Output Minimum	Output Normal (A)	Forced Air (B)	Output Peak	Noise P-P	OVP	Total Regulation(C)
GLC110-212	GLM110-212	1	+12 V	1 A	6.3 A	9.1 A	9.5 A	100 mV	15.6 ± 1.1 V	2%
		2	-12 V	0 A	2.5 A	3 A	4 A	120 mV		2%
GLC110-215	GLM110-215	1	+15 V	1 A	5 A	7.3 A	7.7 A	120 mV	18.5 ± 1.5V	2%
		2	-15 V	0 A	2.5 A	3 A	4 A	150 mV		2%
GLC110-524	GLM110-524	1	+24 V	1 A	3.2 A	4.6 A	4.75 A	200 mV	28 ± 2.5 V	2%
		2	+5 V	0 A	1.5 A	2 A	2.5 A	50 mV	6.2 ±0.6 V	2%
GLC110-12	GLM110-12	1	12 V	0 A	6.3 A	9.1 A	9.5 A	120 mV	15.6 ± 1.1 V	2%
GLC110-15	GLM110-15	1	15 V	0 A	5 A	7.3 A	7.7 A	150 mV	18.5 ± 1.5 V	2%
GLC110-24	GLM110-24	1	24 V	0 A	3.2 A	4.6 A	4.75 A	240 mV	28 ± 2.5 V	2%

A. Rating with unrestricted convection cooling. Total power not to exceed 75 W; no output can exceed rated current.
B. Rating with 26 cfm forced air cooling. Total power not to exceed 110 W.
C. To maintain regulation V1 current must be at least 1/5 of V2. V1 must not be adjusted more than 1% below nominal and have at least 10% of rated load.

GLC110/GLM110 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: 1-640445-3
0.156 CTR HEADER

PIN #	MULTI-OUPUT MODEL	SINGLE OUTPUT MODELS
1	OUTPUT #1	OUTPUT #1
2	OUTPUT #1	OUTPUT #1
3	OUTPUT #1	OUTPUT #1
4	OUTPUT #1	OUTPUT #1
5	COMMON	RETURN
6	COMMON	RETURN
7	COMMON	RETURN
8	COMMON	RETURN
9	COMMON	RETURN
10	POWER FAIL	POWER FAIL
11	N/C	N/C
12	OUTPUT #2(-)	N/C
13	OUTPUT #2(+)	N/C

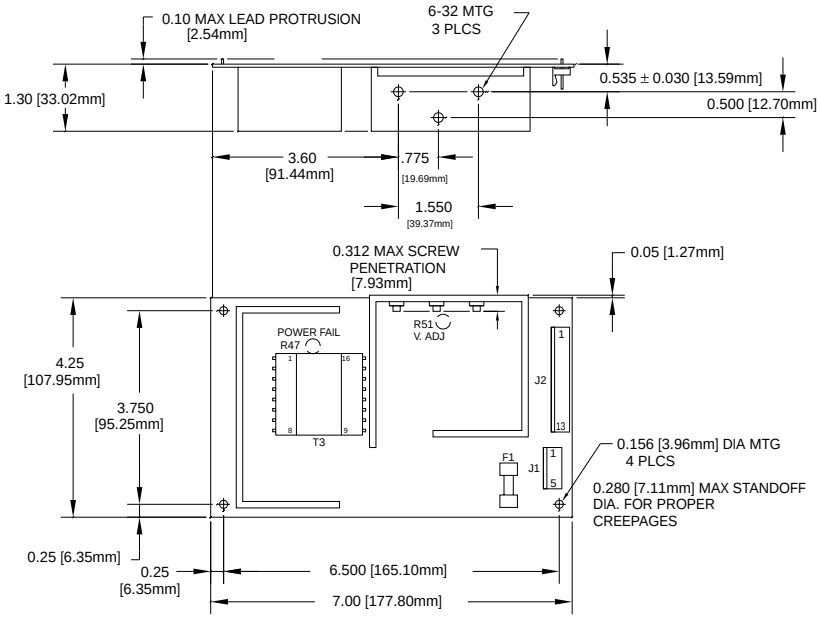
MATING CONNECTOR AMP P/N'S

	HOUSING
INPUT:	640250-5
OUTPUT:	1-640250-3
	CONTACT
INPUT:	640706-1
OUTPUT	640706-1

NOTE: 5A MAXIMUM RECOMMENDED CURRENT PER CONNECTOR PIN.

WEIGHT: 1.2 LBS. MAX. [0.544 kg]

TOLERANCES: X.XX=0.030 [0.76mm]
X.XXX=0.010 [0.25mm]



Environmental Specification	Operating	Non-operating
Temperature (A)	See individual specs	-40 to +85ºC
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.
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.