GLC75 Commercial/GLM75 Medical 75 Watt Multiple 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. The standard power is 110 W with 26 cfm airflow. During peak load conditions output regulation may exceed total regulation and noise limits.

Output Regulation Measured by $\pm 40\%$ load change from 60% rated load with all other outputs at 60% rated load and input voltage change from minimum to maximum ratings. Output #1 requires 20% minimum load for proper regulation of other outputs. Initial set tolerance is measured with all outputs at 60% of full rated load. Output #2 requires 0.5 a minimum load for proper regulation.

Overload Protection

Factory set to begin power limiting at approximately 120 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: 500µSec typical response time for return to within 0.5% of final value for a 50% load step change, $\Delta i/$ ∆t<0.2A/µSec. Maximum voltage deviation is 3.5%.

Overvoltage Protection

Built in on V1 with firing point set per table. OVP firing reduces output #1 and #2 to less than 50% of nominal voltage in 50 ms.

Voltage Adjust

Factory set on standard unit; however, optional potentiom-eter adjusts voltage from 4.7 V to OVP point (6.2 V nominal) on the +5 V output. Note: Output #1 must not be more than 1% below nominal to achieve full output voltage range on Output #2. Output regulation limits in some models may be exceeded when the main output is adjusted beyond ±1% of nominal voltage. High voltage satings may degrade the of nominal voltage. High voltage settings may degrade the reliability of the unit due to excessive power dissipation in some outputs.

Efficiency 68% -78% depending on model and load distribution.

FEATURES:

- · Cost-effective multiple output power source
- Universal input 90-264 Vac
- 7.00"x 4.25"x 1.30" (Meets 1U height)
- 2-year warranty
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- Complies with EN61000-3-2 Class A
- · Also available in single output versions
- Commercial UL1950, CSA22.2 No. 234 and IEC950 and EN60950 approvals
- Medical Approved to UL2601-1, IEC601-1 and CSA-C22.2 No. 601.1
- (marked to LVD

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.

Hold Up Time

20 ms minimum from loss of ac input power at full load, nominal line (120 Vac).

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

Conducted Emissions-GLC75 Conducted Emissions-GLM75 Static Discharge RF Field Susceptibility Fast Transients/Bursts Surge Susceptibility Line Frequency Harmonics

COMPLIANCE LEVEL

EN55022 Class B; FCC Class B EN55011 Class B; FCC Class B EN61000-4-2, 6 kV contact, 8 kV air EN61000-4-3, 3 V/meter EN61000-4-4, 2 kV, 5 kHz EN61000-4-5, 1 kV diff., 2 kV com. 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 μA 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. Consult factory for approval status.

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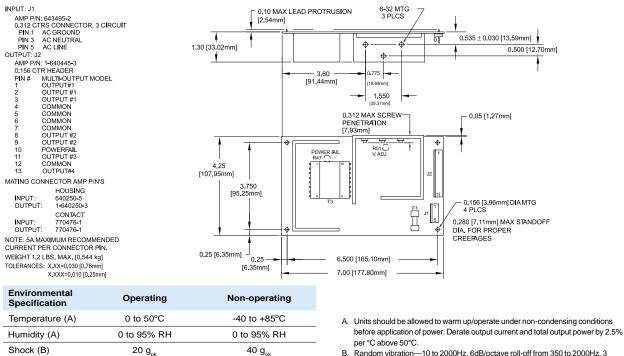
Commercial Model	Medical Model	Output No.	Output	Output Minimum	Output Maximum (A)	n Output Maximum (B)	Output Peak	V1 OVP Set	Noise P-P	Regulation
GLC75A	GLM75A	. 1	+5.1 V	1 A	8 Á	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+12 V	0.5 A	2.5 A	3 A	4 A		120 mV	+10%, -5% (C
		3	-12 V	0 A	1 A	1 A	1.2 A		120 mV	3%
		4	+12 V	0 A	2.5 A	3 A	4 A		120 mV	2%
GLC75B	GLM75B	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+12 V	0.5 A	2.5 A	3 A	4 A		120 mV	+10%, -5% (D
		3	-5 V	0 A	1 A	1 A	1.2 A		50 mV	3%
		4	+12 V	0 A	2.5 A	3 A	4 A		120 mV	2%
GLC75C	GLM75C	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+12 V	0.5 A	2.5 A	3 A	4 A		120 mV	+10%, -5% (D
		3	-15 V	0 A	1 A	1 A	1.2 A		150 mV	3%
		4	+15 V	0 A	2.5 A	3 A	4 A		150 mV	2%
GLC75D	GLM75D	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+24 V	0.5 A	2.5 A	2.5 A	3.5 A		240 mV	+10%, -5% (D
		3	-12 V	0 A	1 A	1 A	1.2 A		120 mV	3%
		4	+12 V	0 A	2.5 A	3 A	4 A		120 mV	2%
GLC75E	GLM75E	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+24 V	0.5 A	2.5 A	2.5 A	3.5 A		240 mV	+10%, -5% (D
		3	-15 V	0 A	1 A	1 A	1.2 A		150 mV	3%
		4	+15 V	0 A	2.5 A	3 A	4 A		150 mV	2%
GLC75F	GLM75F	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+15 V	0.5 A	2.5 A	3 A	4 A		150 mV	+10%, -5% (D
		3	-5 V	0	1 A	1 A	1.2 A		50 mV	3%
		4	-15 V	0	2.5 A	3 A	4 A		150 mV	2%
GLC75H	GLM75H	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6 V	50 mV	2%
		2	+15 V	0.5 A	2.5 A	3 A	4 A		150 mV	+10%, -5% (D
		3	-15 V	0	1 A	1 A	1.2 A		150 mV	3%
		4	+15 V	0	2.5 A	3 A	4 A		150 mV	2%
GLC75J	GLM75J	1	+5.1 V	1 A	8 A	10A	12 A	6.2 ± 0.6V	50 mV	2%
		2	+12 V	0.5 A	2.5 A	3 A	4 A		120 mV	+10%, -5% (D
		3	-12 V	0	1 A	1 A	1.2 A		120 mV	3%
		4(C)	5 V	0	2.0 A	3 A	4 A		50 mV	2%
GLC75P	GLM75P	1	+5.1 V	1 A	8 A	10 A	12 A	6.2 ± 0.6V	50 mV	2%
		2	+24 V	0.5 A	4 A	4 A	4.5 A		240 mV	+10%, -5% (E
		3	-12 V	0 A	1 A	1 A	1.2 A		120 mV	3%
		4	+12 V	0 A	2.5 A	3 A	4 A		120 mV	2%

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.

C. Floating fourth output can be referenced as either positive or negative. Connect pin 12 to Return to provide a positive voltage at Pin 13. Connect pin 13 to Return to provide a negative voltage at Pin 12.

D. To maintain these regulations conditions, the +5V current must be at least 1/5 of V2 and not greater than 5 times the V2 current. Requires +5V to be adjusted to within 1% with at least a 1 A load to maintain regulation on this output.

GLC75/GLM75 MECHANICAL SPECIFICATIONS



-500 to 40,000 ft

5 g_{rms}, 0.026 g²/Hz

В.	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.



-500 to 10,000 ft

1.5 g_{rms}, 0.003 g²/Hz

Altitude

Vibration (C)

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