Embedded Power for Business-Critical Continuity

RoHS

Rev. 06.15.07 LPT60-M Series 1 of 3

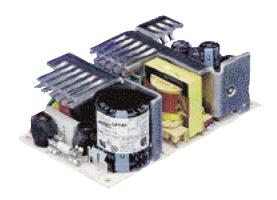
LPT60-M Series

60 Watts Medical

Total Power: Input Voltage:

of Outputs:

60 - 80 Watts 85 - 264 VAC 120 - 300VDC Triple



Electrical Specifications

85-264VAC 120-300VDC 47-440Hz <18A peak @ 115VAC; <36A peak @ 230VAC, cold start @ 25°C 1.5A max. (RMS) @ 115VAC 70% typical at full load FCC Class A conducted; CISPR 22 Class A conducted EN55022 Class A conducted; VDE 0878 PT3 Class A conducted <75μA max. @ 50/60 Hz, 264VAC input

Safety ground leakage current

Output

Input range

Frequency

Inrush current

Input current

Efficiency

EMI

60W for convection; 80W with 30CFW forced air Maximum Power Cross regulation ±2% on output 1; ±5% on outputs 2, 3 Adjustment range -5. +10% minimum Hold-up time 20ms @ 60W load, 115VAC nominal line Overload protection Short circuit protection on all outputs. Case overload protected @ 110% to 145% above peak rating Overvoltage protection 5.7 to 6.7 VDC on the main output Remote sense Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.





Special Features

- Medical safety approvals
- Universal input
- 3" x 5" footprint
- Remote sense on main output
- Built-in EMI filter
- Low output ripple
- Adjustable 5V output
- Overvoltage protection
- Overload protection
- 110KHz switching frequency
- LPX60 enclosure kit available

Safety

VDE	0750/EN60601-1 (IEC601)
	21310-3336-0015
UL	UL2601
	E182560
CSA	CSA 22.2 No. 601.1
	LR109492
CE	Mark (LVD)

Environmental Specifications

Operating temperature:	0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C, -20°C startup
Electromagnetic susceptibility:	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Humidity:	Operating; non-condensing 5% to 95%
Vibration:	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G peak 5 Hz to 500 Hz, operational
Storage temperature:	-40° to 85°C
Temperature coefficient:	±.04% per °C
MTBF demonstrated:	>550,000 hours at full load and 25°C ambient conditions

Ordering	Informatio	on					
Model Number	Output Voltage	Minimum Load	Maximum Load with Convnection cooling	Maximum Load with 30CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
LPT62-M	+5V	0.7A	7A	8A	10A	±2%	50mV
	+12V	0.3A	3A	3.5A	6A	±5%	120mV
	-12V	0A	0.7A	1A	1.5A	±5%	120mV
LPT63-M	+5V	0.7A	7A	8A	10A	±2%	50mV
	+15V	0.3A	2.8A	3.3A	4A	±5%	150mV
	-15V	0A	0.7A	1A	1.5A	±5%	150mV

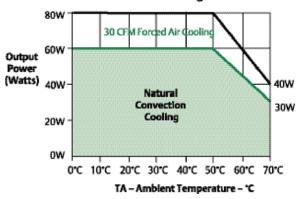
1. Peak current lasting <30 seconds with a maximum 10% duty cycle.

2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

3. Peak-to-peak with 20 MHz bandwidth and 10μ F in parallel with a 0.1μ F capacitor at rated line voltage and load ranges.

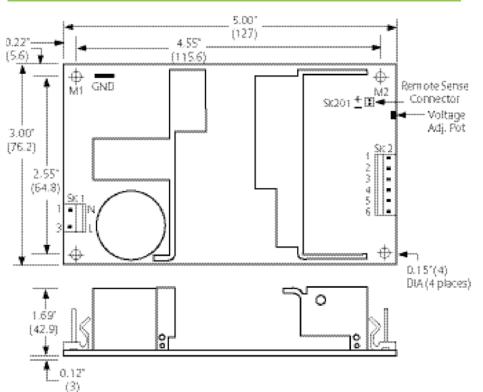
4. Minimum Loads are required.

Power Derating Curve



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Mechanical Drawing



Pin Assignments

3				
Connector	LPT62-M	LPT63-M		
SK1-1	Neutral	Neutral		
SK1-3	Line	Line		
SK2-1	+12V	+15V		
SK2- 2	+5V	+5V		
SK2- 3	+5V	+5V		
SK2-4	Common	Common		
SK2-5	Common	Common		
SK2-6	-12V	-15V		
SK201-1	+Sense	+Sense		
SK201-2	-Sense	-Sense		

Mating Connectors		
AC Input:	Molex 09-50-8031 (USA) 09-91-0300 (UK) PINS: 08-58-0111	
DC Outputs:	Molex 09-50-8061 (USA) 09-91-0600 (UK) PINS: 08-52-0113	
Remote Sense:	Molex 22-01-2025 PINS: 08-52-0113	
Astec Connecto	or Kit #70-841-006, includes all of the above	
1. Specification	ons subject to change without notice.	
2. All dimensi	ions in inches (mm), tolerance is ± 0.02 " (± 0.5 mm)	
3. Mounting l	holes M1 and M2 should be grounded for EMI purposes.	

- 4. Mounting hole M1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.75lbs/0.34kg

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Printed in USA

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Site Monitoring and Services

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