Embedded Power for **Business-Critical Continuity** 

RoHS

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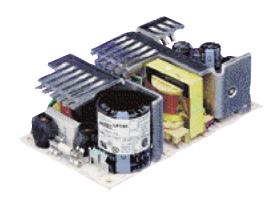
# **LPT60-M Series** 60 Watts

## Medical

**Total Power:** Input Voltage:

# of Outputs:

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



# **Electrical Specifications**

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

Safety ground leakage current

### Output

Input

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	ng Information						
Model Number	Output Voltage	Minimum Load	Maximum Load with Convnection cooling	Maximum Load with 30CFM Forced Air	Peak Load <sup>1</sup>	<b>Regulation</b> <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
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

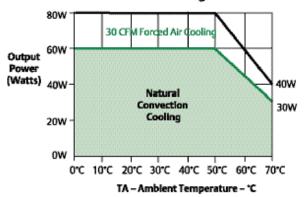
1. Peak current lasting <30 seconds with a maximum 10% duty cycle.

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  $10\mu$ F in parallel with a  $0.1\mu$ F capacitor at rated line voltage and load ranges.

4. Minimum Loads are required.

#### **Power Derating Curve**

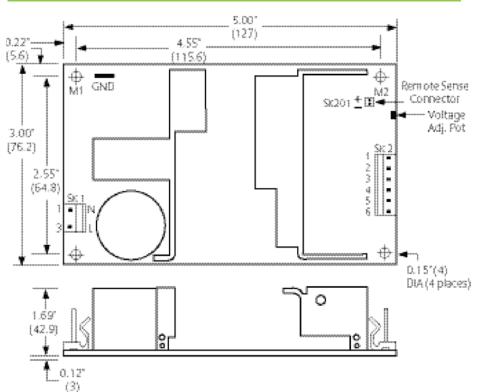


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#### Mechanical Drawing



#### **Pin Assignments**

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)			
DC Outputs	PINS: 08-58-0111 Molex 09-50-8061 (USA) 09-91-0600 (UK) PINS: 08-52-0113			
Remote Sense: Molex 22-01-2025 PINS: 08-52-0113				
Astec Conne	ector Kit #70-841-006, includes all of the above			
1. Specifications subject to change without notice.				
2. All dime	2. All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm)			
3. Mounting holes M1 and M2 should be grounded for EMI purposes.				
4. Mounti	. Mounting hole M1 is safety ground connection.			
5 Spocific	rations are for convection rating at factory softings at 11E V/AC input			

- 5. Specifications are for convection rating at factory settings at 115 VAC input,  $25^\circ\!C$  unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.75lbs/0.34kg

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