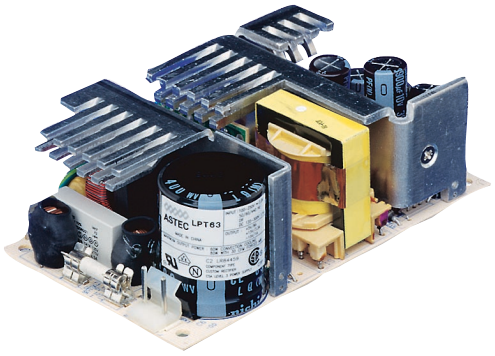
60 Watts
LPT60 Series
Medical

Total Power:	60-80 Watts
Input Voltage:	85-264 VAC 120-300 VDC
# of Outputs:	Triple



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
- 110 KHz switching frequency
- LPX60 enclosure kit available

Electrical Specs

Input	
Input range	85-264 VAC 120-300 VDC
Frequency	47-440 Hz
Inrush current	<18 A peak @ 115 VAC; <36 A peak @ 230 VAC, cold start @ 25°C
Input current	1.5 A max. (RMS) @ 115 VAC
Efficiency	70% typical at full load
EMI filter	FCC Class A conducted CISPR 22 Class A conducted EN55022 Class A conducted VDE 0878 PT3 Class A conducted
Safety ground leakage current	<75 µA max. @ 50/60 Hz, 264 VAC input
Output	
Maximum power	60 W for convection; 80 W with 30 CFM forced air
Adjustment range	-5, +10% minimum
Cross regulation	±2% on output 1; ±5% on outputs 2, 3
Hold-up time	20 ms @ 60 W load,115 VAC nominal line
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating
Overvoltage protection	5.7-6.7 VDC on main output
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

Environmental

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C

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

Safety

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

AMERICAS

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EUROPE

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ASIA

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Tower1, Metroplaza
223, Hing Fong Road
Fwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426

Ordering Information

Model Number	*Output Voltage*	*Minimum Load*	*Maximum Load with Convection Cooling*	*Maximum Load with 30 CFM Forced Air*	*Peak Load1*	*Regulation2*	*Ripple P/P (PARD)3*
LPT62-M	+5 V	0.7 A	7 A	8 A	10 A	±2%	50 mV
	+12 V	0.3 A	3 A	3.5 A	6 A	±5%	120 mV
	-12 V	0 A	0.7 A	1 A	1.5 A	±5%	120 mV
LPT63-M	+5 V	0.7 A	7 A	8 A	10 A	±2%	50 mV
	+15 V	0.3 A	2.8 A	3.3 A	4 A	±5%	150 mV
	-15 V	0 A	0.7 A	1 A	1.5 A	±5%	150 mV

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 µF in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.

Pin Assignments

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

Mating Connectors

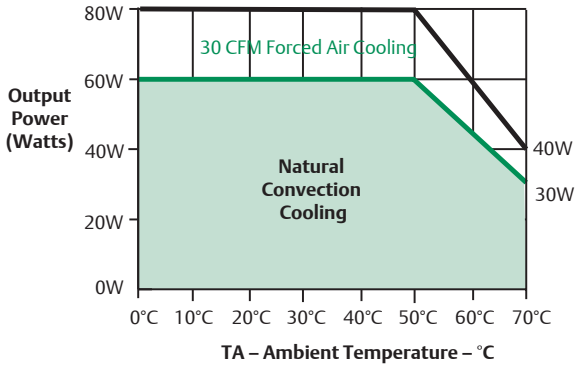
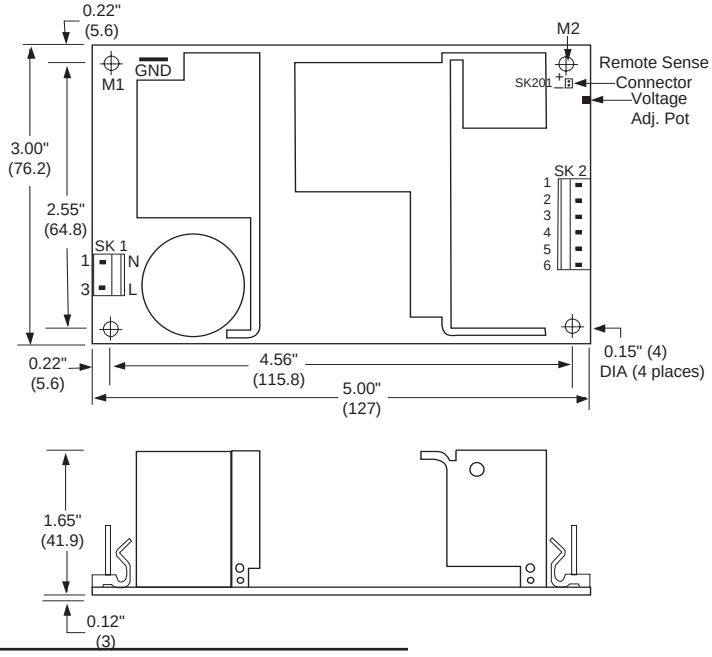
AC Input: Molex 09-50-8031 (USA)
09-91-0300 (UK)
PINS: 08-58-0111

DC Outputs: Molex 09-50-8061 (USA)
09-91-0600 (UK)
PINS: 08-58-0111

Remote Sense: Molex 22-01-2025
PINS: 08-50-0114

Astec Connector Kit #70-841-006, includes all of the above.

NOTES

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±.02".
3. Mounting holes M1 and M2 should be grounded for EMI purposes.
4. Mounting hole M1 is safety ground connection.
5. Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
6. Warranty: 1 year
7. Weight: 0.75 lb. / 0.34 kg

Power Derating Curve