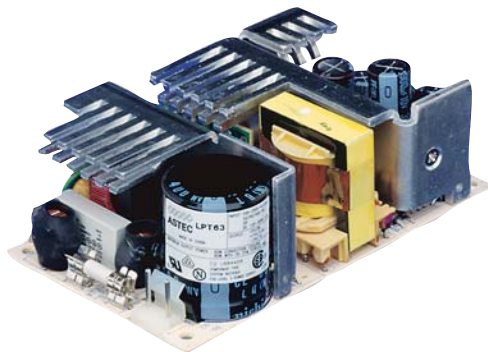


## LPS60-M Series

60 Watts

Medical

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



### Special Features

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

### Safety

**VDE** 0750/EN60950 (IEC601)  
21310-3336-0015  
**UL** UL2601  
E182560  
**CSA** CSA 22.2 No.601.1  
LR109492  
**CE** Mark (LVD)

## Electrical Specifications

### Input

Input range	85 - 264 VAC (wide range) 120 - 300VDC
Frequency	47-440 Hz
Inrush current	<18A peak @ 115VAC, <36A peak @230 VAC, cold start @ 25°C
Input current	1.5A max. (RMS) @ 115 VAC
Efficiency	70% typical at full load
EMI filter	FCC Class A conducted; CISPR22 Class A conducted; EN55022 Class A conducted; VDE0878 PT3 Class A conducted
Safety ground leakage current	<75µA @ 50/60Hz; 264VAC input

### Output

Maximum power	60W for convection; 80W with 30CFM forced air
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 @ 110-145% above peak rating
Overvoltage protection	5V output; 5.7 - 6.7VDC. Other outputs 10% to 25% above nominal output
Remote sense	Compensates for 0.5V lead drop min. Will operate without remote sense connected. Reverse connection protected.



**Power Derating Curve**

Output Power (Watts)

80W

60W

40W

20W

0W

0°C

10°C

20°C

30°C

40°C

50°C

60°C

70°C

30 CFM Forced Air Cooling

Natural Convection Cooling

40W

30W

TA – Ambient Temperature – °C

**Top View Dimensions:**

- Overall Width: 5.00" (127)
- Overall Height: 3.00" (76.2)
- Top Margin: 0.22" (5.6)
- Bottom Margin: 0.22" (5.6)
- Left Margin: 0.22" (5.6)
- Right Margin: 0.15" (4) DIA (4 places)
- Internal Width: 4.56" (115.8)
- Internal Height: 2.55" (64.8)

**Side View Dimensions:**

- PCB Thickness: 0.12" (3)
- Mounting Hole Diameter: 0.15" (4)
- Mounting Hole Spacing: 1.69" (42.9)

**Key Features:**

- GND
- SK 1
- SK 2
- SK 201
- Remote Sense
- Connector
- Voltage
- Adj. Pot

## Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM forced Air	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
LPS63-M	12V	0A	5A	6.7A	7.5A	±2%	120mV
LPS64-M	15V	0A	4A	5.3A	6A	±2%	150mV
LPS65-M	24V	0A	2.5A	3.3A	3.8A	±2%	240mV

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 10µF (tantalum capacitor) in parallel with a 0. µF capacitor at rated line voltage and load ranges.

## Pin Assignments

Connector	LPS62-M	LPS63-M	LPS65-M
SK1-1	Neutral	Neutral	Neutral
SK1-3	Line	Line	Line
SK2-1	+12V	+15V	+24
SK2-2	+12V	+15V	+24
SK2-3	+12V	+15V	+24
SK2-4	Common	Common	Common
SK2-5	Common	Common	Common
SK2-6	Common	Common	Common
SK201-1	+Sense	+Sense	+Sense
SK201-2	-Sense	-Sense	-Sense

## Mating Connectors

**AC Input:** Molex 09-50-8031 (USA) **Not required for (-T) option**  
09-91-0300 (UK)  
PINS: 08-58-0111

**DC Outputs:** Molex 09-50-8061 (USA) **Not required for (-T) option**  
09-91-0600 (UK)  
PINS: 08-52-0113

**Remote Sense:** Molex 22-01-2025  
PINS: 08-52-0113

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

1. Specifications subject to change without notice.
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. 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: 2 year
7. Weight: 0.75lbs/0.34kg

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