

## LPT60 Series

60 Watts

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



### Special Features

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

### Safety

<b>VDE</b>	0805/EN60950 (IEC950) 11774-3336-1255 (LC #86665)
<b>UL</b>	UL1950 E132002
<b>CSA</b>	CSA 22.2-234 Level 3 LR53982C
<b>NEMKO</b>	EN 60950/EMKO-TUE P95100123 (74-sec) 203
<b>CB</b>	Certificate and report 1518, 1519, 1520
<b>CE</b>	Mark (LVD)

## 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 (60% for LPT61)
EMI	FCC Class B conducted; CISPR 22 Class B conducted EN55022 Class B conducted; VDE 0878 PT3 Class B conducted
Safety ground leakage current	<0.5 mA @ 50/60 Hz, 264 VAC input

### Output

Maximum Power	60W for convection (LPT61, 35W); 80W with 30CFW forced air (LPT61, 55W)
Cross regulation	±2% on output 1; ±5% on outputs 2, 3
Adjustment range	-5, +10% minimum
Hold-up time	20ms @ 40W load, 115 VAC 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 LPT41: 3.6 to 4.6VDC
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.



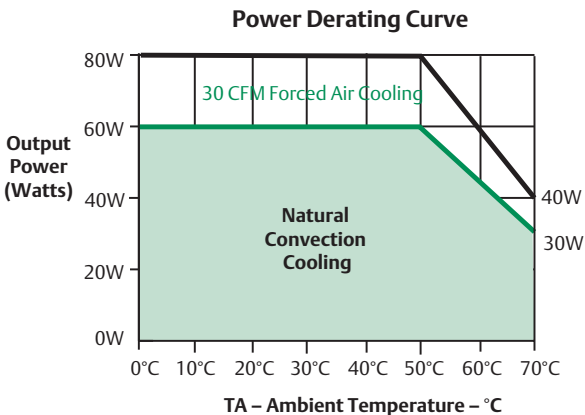
## Environmental Specifications

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

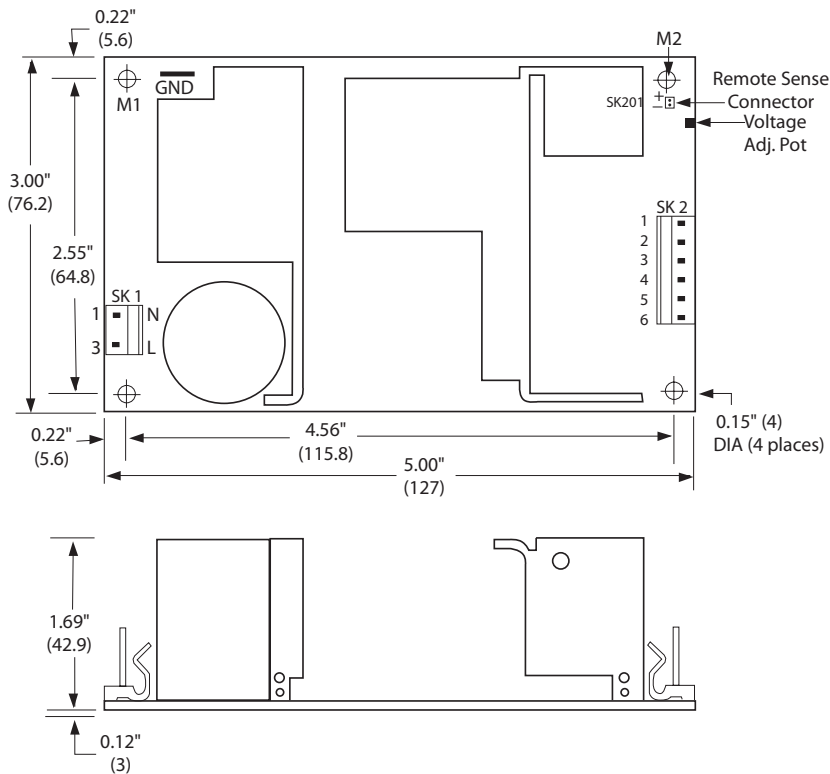
## Ordering Information

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>
LPT61	+3.3V	0.7A	5A	8.5A	9.5A	±2%	50mV
	+5V	0A	2.5A	3.0A	3.3A	±2%	50mV
	+12V	0A	0.5A	1.0A	1A	±5%	120mV
LPT62	+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	+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
LPT64	+5V	0.7A	7A	8A	10A	±2%	50mV
	+12V	0.3A	3A	3.5A	6A	±5%	120mV
	-5V	0A	0.7A	1A	1.5A	±5%	50mV
LPT65	+5V	0.7A	7A	8A	10A	±2%	50mV
	+24V	0.1A	1.5A	2.0A	3A	±7%	240mV
	+12V	0A	0.7A	1A	1.5A	±5%	120mV

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.



## Mechanical Drawing



## Pin Assignments

Connector	LPT61	LPT62	LPT63	LPT64	LPT65
SK1-1	Neutral	Neutral	Neutral	Neutral	Neutral
SK1-3	Line	Line	Line	Line	Line
SK2-1	5V	+12V	+15V	+12V	+24V
SK2-2	3.3V	+5V	+5V	+5V	+5V
SK2-3	3.3V	+5V	+5V	+5V	+5V
SK2-4	Common	Common	Common	Common	Common
SK2-5	Common	Common	Common	Common	Common
SK2-6	+12V	-12V	-15V	-5V	+12V
SK201-1	+Sense	+Sense	+Sense	+Sense	+Sense
SK201-2	-Sense	-Sense	-Sense	-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 Connector Kit #70-841-006, includes all of the above

- Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is  $\pm 0.02$ " ( $\pm 0.5$ mm)
- Mounting holes M1 and M2 should be grounded for EMI purposes.
- Mounting hole M1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
- Warranty: 2 year
- Weight: 0.75lbs/0.34kg

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