

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

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



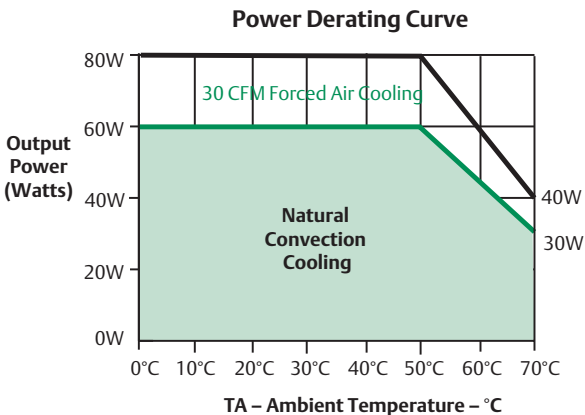
Environmental Specifications

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

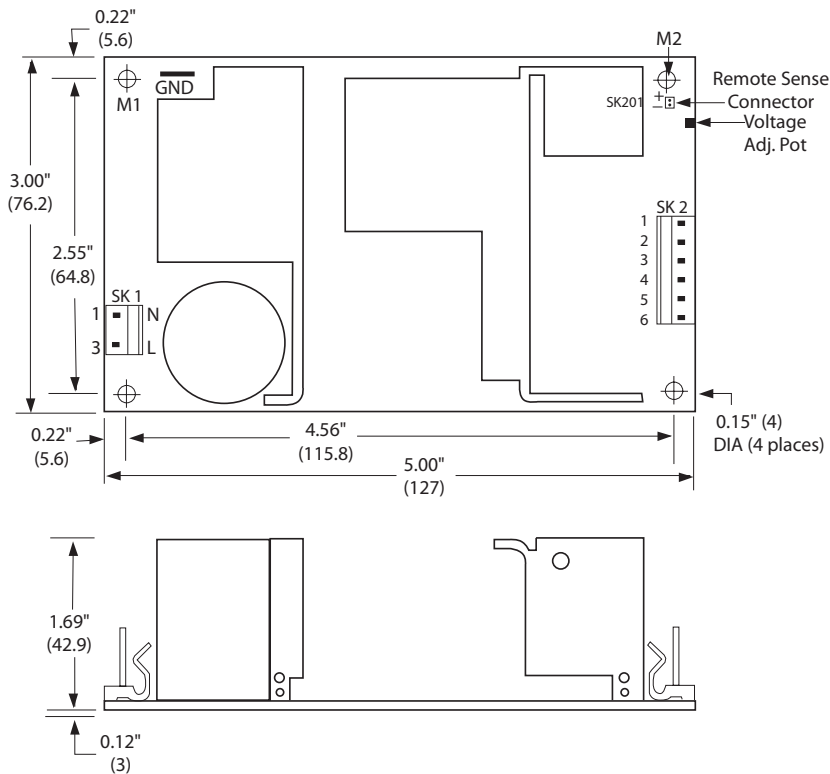
Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection cooling	Maximum Load with 30CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
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 $\pm 0.02"$ (± 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

Americas

5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 (760) 930 4600
Facsimile: +1 (760) 930 0698

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:

www.powerconversion.com
techsupport.embeddedpower@emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.
©2008 Emerson Electric Co.