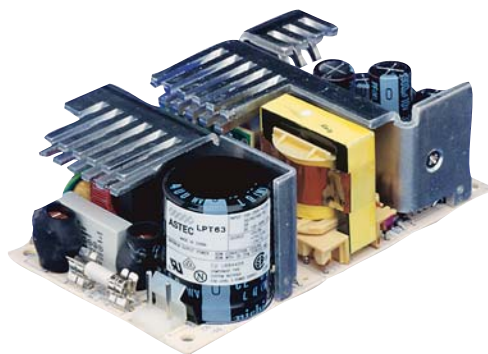


LPT60 Series

60 Watts

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



Rev. 03.24.08
LPT60 Series
1 of 3

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.



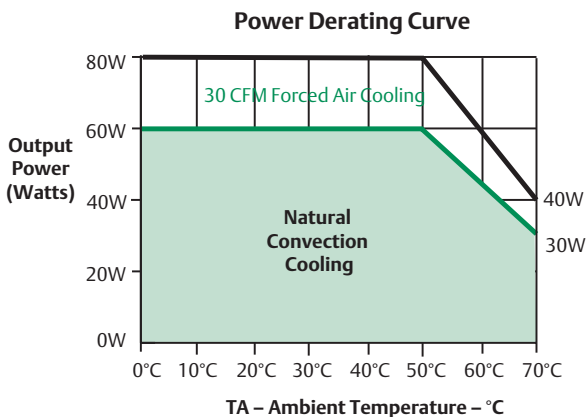
Environmental Specifications

| | |
|---------------------------------|---|
| 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 |

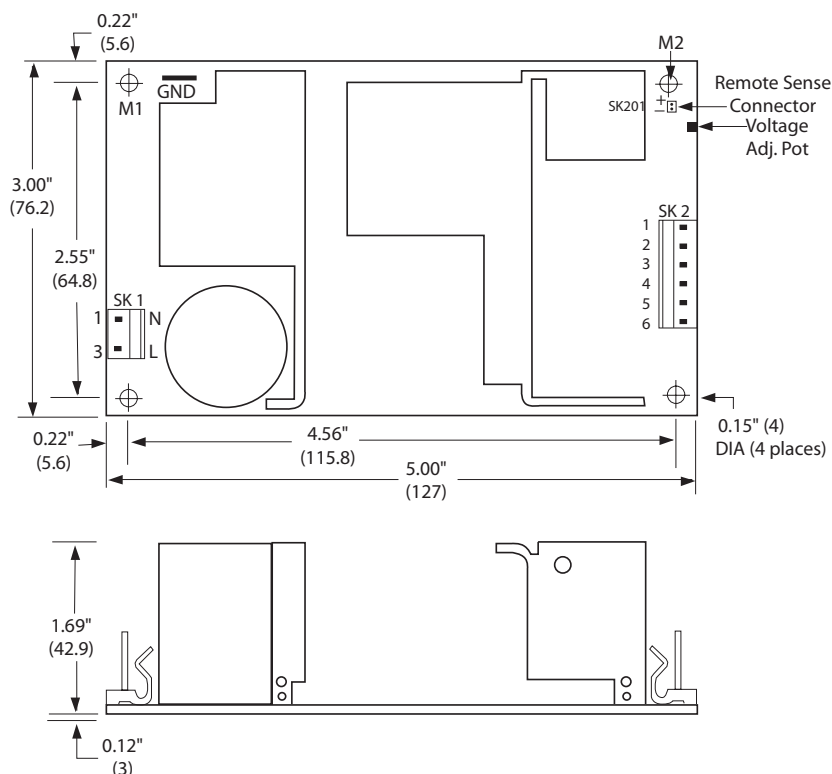
Ordering Information

| 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 ± 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

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