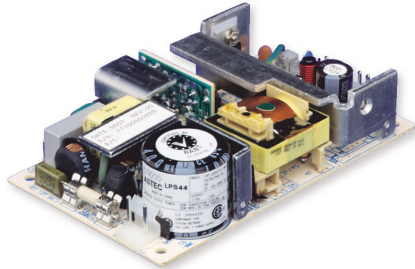


40 Watts LPS40 Series

Total Power: 40-55 Watts
Input Voltage: 85-264 VAC
 120-300 VDC
of Outputs: Single



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 A max. (RMS) @ 115 VAC |
| Efficiency | 70% typical at full load |
| EMI filter | 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 | 40 W for convection; 55 W with 30 CFM forced air |
| Adjustment range | -5, +10% minimum |
| Hold-up time | 20 ms @40 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 V output: 5.7 to 6.7 VDC. Other outputs 10% to 25% above nominal output |
| Remote sense | Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected. |

Special Features

- Universal input
- 3" x 5" footprint
- Remote sense
- Built-in EMI filter
- Low output ripple
- Adjustable output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available

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
 0.75 G 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 | 0805/EN60950 (IEC950) | 11774-3336-1241 (LC# 84936) |
| UL | UL1950 | E132002 |
| CSA | CSA 22.2-234 Level 3 | LR53982C |
| NEMKO | EN 60950/EMKO-TUE (74-sec) 203 | P94100375 |
| BABT | EN60950/BS7002 | PS/604781 |
| CB | Certificate and report | 1119,1125,1126,1127 |
| CE | Mark (LVD) | |

AMERICAS

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ASIA

Units 2111-2116, Level 21
Tower 1, 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 Load ¹ | Regulation ² | Ripple P/P (PAR) ³ |
|--------------|----------------|--------------|--------------------------------------|-------------------------------------|------------------------|-------------------------|-------------------------------|
| LPS41 | 3.3 V | 0 A | 8 A | 11 A | 12 A | ±2% | 33 mV |
| LPS42 | 5 V | 0 A | 8 A | 11 A | 12 A | ±2% | 50 mV |
| LPS43 | 12 V | 0 A | 3.3 A | 4.5 A | 5 A | ±2% | 120 mV |
| LPS44 | 15 V | 0 A | 2.6 A | 3.6 A | 4 A | ±2% | 150 mV |
| LPS45 | 24 V | 0 A | 1.6 A | 2.3 A | 2.5 A | ±2% | 240 mV |
| LPS48 | 48 V | 0 A | 0.9 A | 1.2 A | 1.3 A | ±2% | 480 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.

Pin Assignments

| Connector | LPS41 | LPS42 | LPS43 | LPS44 | LPS45 | LPS48 |
|-----------|---------|---------|---------|---------|---------|---------|
| SK1-1 | Neutral | Neutral | Neutral | Neutral | Neutral | Natural |
| SK1-3 | Line | Line | Line | Line | Line | Line |
| SK2-1 | +3.3 V | +5 V | +12 V | +15 V | +24 V | +48 V |
| SK2-2 | +3.3 V | +5 V | +12 V | +15 V | +24 V | +48 V |
| SK2-3 | +3.3 V | +5 V | +12 V | +15 V | +24 V | +48 V |
| SK2-4 | Common | Common | Common | Common | Common | Common |
| SK2-5 | Common | Common | Common | Common | Common | Common |
| SK2-6 | Common | Common | Common | Common | Common | Common |
| SK201-1 | +Sense | +Sense | +Sense | +Sense | +Sense | +Sense |
| SK201-2 | -Sense | -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: 08-58-0111

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: 0.5 lb. / 0.23 kg

