40 Watts LPS40 Series

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

of Outputs: Single

Electrical Specs



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

Input

Input range 85-264 VAC

120-300 VDC 47-440 Hz

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.

Safety

VDE 0805/EN60950 (IEC950)

0) 11774-3336-1241 (LC# 84936)

 UL
 UL1950

 CSA
 CSA 22...

 NEMKO
 EN 6095

CSA 22.2-234 Level 3 EN 60950/EMKO-TUE E132002 LR53982C P94100375

(74-sec) 203 BABT EN60950/BS

EN60950/BS7002 Certificate and report

PS/604781

CB Certificate an CE Mark (LVD)

1119,1125,1126,1127



AMERICAS

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EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DV5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44(1384) 843-355 Units 2111-2116, Level 21 Tower I, 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 Load1	Regulation2	Ripple P/P (PARD)3
L	.PS41	3.3 V	0 A	8 A	11 A	12 A	±2%	33 mV
L	.PS42	5 V	0 A	8 A	11 A	12 A	±2%	50 mV
L	.PS43	12 V	0 A	3.3 A	4.5 A	5 A	±2%	120 mV
L	.PS44	15 V	0 A	2.6 A	3.6 A	4 A	±2%	150 mV
L	.PS45	24 V	0 A	1.6 A	2.3 A	2.5 A	±2%	240 mV
L	.PS48	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 10μ F in parallel with a 0.1 μ F 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



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.
- 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







