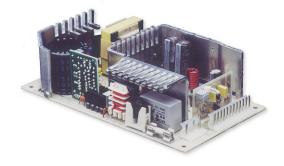
110 Watts LPS110 Series

Total Power: 80-110 Watts *Input Voltage:* 85-264 VAC

120-300 VDC

of Outputs: Single



Special Features

- · Universal input
- · High efficiency
- · Remote sense
- Built-in EMI filter
- Low output ripple
- Adjustable output
- · Power fail
- Overvoltage protection
- Overload protection
- Optional L bracket (-B suffix)
- Cover kit available LPX110-C

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

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 2.5 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 80 W for convection;

110 W with 30 CFM forced air

Adjustment range ±5% minimum

Hold-up time 20 ms @80 W load, 115 VAC nominal

line

Overload protection Short circuit protection. Case overload

protected @ 110-145% above peak

rating

Overvoltage protection 5 V output: 5.7-6.7 VDC. Other outputs

10% to 20% above nominal output. Latching type, recycle AC to reset.

Logic Control

Power failure TTL logic signal goes high 50-150 msec

after main output. It goes low at least 4

msec before loss of regulation.

Remote sense Compensates for 0.5 V lead drop min.

Will operate without remote sense connected. Reverse connection

protected.

Safety

VDE 0805/EN60950 (IEC950) 11774-3336-1245 (LC #84997)

 UL
 UL1950
 E132002

 CSA
 CSA 22.2-234 Level 3
 LR53982C

 NEMKO
 EN 60950/EMKO-TUE
 P95100376

(74-sec) 203

CB Certificate and report 1563, 1564, 1565, 1566, 1567

CE Mark (LVD)



Technical Support: (888) 41-ASTEC or (407) 241-2752 Americas: (760) 930-4600 Europe (UK) 44 (1384) 842-211 Asia (HK) 852-2437-9662

AMERICAS

5810 Van Allen Way Carlsbad, CA 92008 Telephone: 760-930-4600 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355 ASIA

Units 2111-2116, Level 21 Tower1, 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
LPS113	12 V	0 A	6.7 A	9.2 A	10.4 A	±2%	120 mV
LPS114	15 V	0 A	5.3 A	7.3 A	8.3 A	±2%	150 mV
LPS115	24 V	0 A	3.3 A	4.6 A	5.2 A	±2%	240 mV
LPS118	48 V	0 A	1.7 A	2.3 A	2.6 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 μ F in parallel with a 0.1 μ F capacitor at rated line voltage and load. Note: -B suffix added to model number indicates L bracket option.

Pin Assignments

ConnectorLPS113		LPS114	LPS115	LPS118
SK1-1	GND	GND	GND	GND
SK1-3	Neutral	Neutral	Neutral	Neutral
SK1-5	Line	Line	Line	Line
SK2-1	+12 V	+15 V	+24 V	+48 V
SK2-2	+12 V	+15 V	+24 V	+48 V
SK2-3	+12 V	+15 V	+24 V	+48 V
SK2-4	Common	Common	Common	Common
SK2-5	Common	Common	Common	Common
SK2-6	Common	Common	Common	Common
SK2-7	Common	Common	Common	Common
SK2-8	+12 V	+15 V	+24 V	+48 V
SK2-9	+12 V	+15 V	+24 V	+48 V
SK201-1	+sense	+sense	+sense	+sense
SK201-2	-sense	-sense	-sense	-sense
SK202-1	Pok	Pok	Pok	Pok
SK202-2	GND	GND	GND	GND

Mating Connectors

AC Input: Molex 09-50-8051 (USA)

09-91-0500 (UK) PINS: 08-58-0111

DC Outputs: Molex 09-50-8091 (USA)

09-91-0900 (UK) PINS: 08-58-0111

Remote sense/power fail:

Molex 22-01-1022 (USA) 22-01-1023 (UK)

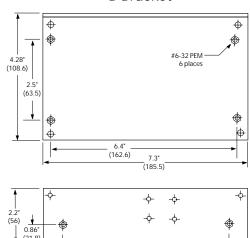
PINS: 08-50-0114

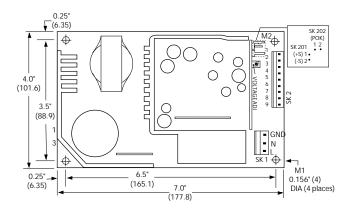
Astec Connector Kit #70-841-007, includes all of the above

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is $\pm .02$ ".
- Specifications are for convection rating at factory settings unless otherwise stated.
- 4. Mounting holes M1 and M2 should be grounded for EMI purposes.
- 5. Mounting hole M1 is safety ground connection.
- 6. L Bracket mounting (6-32) maximum insertion depth is .20" (5).
- 7. Warranty: 1 year
- 8. Weight: 1.25 lb / 0.57 kg

-B Bracket





(150.0)

