250 Watts LPS250 Series

Total Power: 250 Watts Input Voltage: 85-264 VAC

120-300 VDC

of Outputs: Single

Bectrical Specs



Special Features

Active power factor correction

• IEC EN6100-3-2 compliance

· Remote sense & remote inhibit

· Power fail

· Single wire current sharing

· Low output ripple

· 2 Supervisory outputs 5 V and 12 V

Overvoltage protection

Overload protection

· Thermal overload protection

DC power good

Cover -C

120 kHz switching frequency

Optional top with fan cover -CF

Optional end fan cover -CEF

Environmental

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C

Hectromagnetic 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 0.7 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 conditionsation

Input

Input range 85-264 VAC; 120-300 VDC

Frequency 47-440 Hz

Inrush current 20 A max., cold start @25°C Efficiency 75% typical at full load

EMI filter FCC Class B conducted and radiated

CISPR 22 Class B conducted and radiated EN55022 Class B conducted and radiated VDE 0878 PT3 Class B

conducted and radiated

Power factor 0.99 typical Safety ground

leakage current

urrent <0.5 mA @50/60 Hz, 264 VAC input

Output

Maximum power With cover: 250 W with 30 CFM

forced air. (-C) (-CF) (CEF)

Adjustment range 2:1 wide ratio

Supervisory output 5 V @100 mA regulated; 12V @500

mΑ

Hold-up time 20 ms@250 W load, 115 VAC

nominal line

at factory voltage setting

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 models 10% to 25% above

nominal output

Logic Control

Remote on/off

Power failure TTL logic signal goes high 50-150

msec after 5 V output. It goes low at least 4 msec before loss of regulation Requires an external contact (N.O or

N.C) to inhibit outputs

DC OK TTL logic goes high 50-150 msec after

the output. It goes low when there is

loss of regulation.

Remote sense Compensates for 0.5 V lead drop min.

Will operate without remote sense connected. Reverse connection

protected.

Asia (HK): 852-2437-9662



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

AMERICAS

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

EUROPE

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

ASIA



9.0 (228.6)

10.32

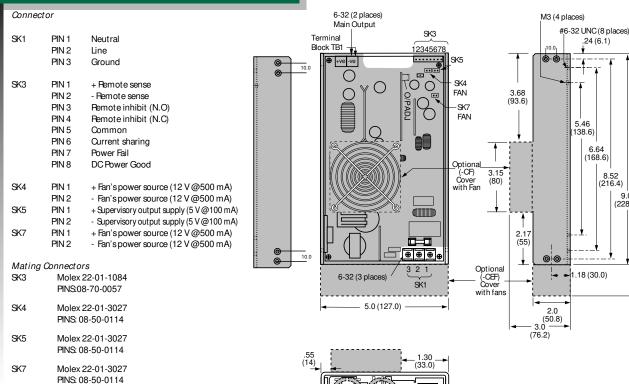
Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with 30 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
LPS252-C LPS253-C LPS254-C	5 V (3-6 V) 12 V (6-12 V) 15 V (12-24 V)	1.50 A 0.63 A 0.50 A	50 A 21 A 16.7 A	60 A 25 A 20 A	±2% ±2% ±2%	50 mV 120 mV 150 mV
LPS255-C	24 V (24-48 V)	0.32 A	10.4 A	12.5 A	±2%	240 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.
- 4. If optional CFor CEF fans are not used, 30CFM forced air cooling needs to be provided and is required through the length of the power supply. Not convection rated.
- 5. Output voltage adjustment requires a minimum load.
- 6. Remote inhibit resets OVP; atch

Note: -CF suffix added to the model number indicates cover with top fan. -CF suffix added to the model number indicates cover with dual end mounted fan cover and **ACinlet**

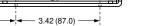
Pin Assignments



Astec Connector Kit #70-841-005, includes all the above.

Safety

VDE	0805/EN60950 (IEC950)	11774-3336-1262
UL	UL1950	E132002
CSA	CSA 22.2-234 Level 5	LR53982C
NEMKO	EN 60950/EMKO-TUE	P95103843
	(74-sec) 203	
BABT	EN60950/BS7002	PS/606027
CB	Certificate and report	2241
Œ	Mark (LVD)	



- 1. Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is ±.02".
- Specifications are at factory settings.
- To enable normally closed remote inhibit, cut jumper J1.
- Mounting maximum insertion depth is 0.12".
- Warranty: 1 year

AC Inlet

7. Weight: 2.6 lb / 1.19 kg

