250 Watts LPS250 Series

Total Power: 250 Watts Input Voltage: 85-264 VAC 120-300 VDC # of Outputs: Single

Electrical Specs



Input range Frequency Inrush current Efficiency EMI filter

Power factor Safety ground leakage current

Output

Maximum power

Adjustment range Supervisory output

Hold-up time

Overload protection

Overvoltage protection

Logic Control

Power failure

Remote on/off

DC-OK

Remote sense

85-264 VAC; 120-300 VDC 47-440 Hz 20 A max., cold start @ 25°C 75% typical at full load 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 0.99 typical

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

With cover: 250 W with 30 CFM forced air. (-C) (-CF) (CEF) 2:1 wide ratio 5 V @ 100 mA regulated; 12V @ 500 mA 20 ms @ 250 W load, 115 VAC nominal line at factory voltage setting Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating 5 V output: 5.7 to 6.7 VDC. Other models 10% to 25% above nominal output

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
TTL logic goes high 50-150 msec after the output. It goes low when there is loss of regulation.
Compensates for 0.5 V lead drop min.
Will operate without remote sense connected. Reverse connection protected.

| Safety | | | | | | | |
|---------------------------------------|--|---|--|--|--|--|--|
| VDE UL CSA NEMKO CB CE | 0805/EN60950 (IEC950) UL1950 CSA 22.2-234 Level 5 EN 60950/EMKO-TUE (74-sec) 203 Certificate and report Mark (LVD) | 11774-3336-1262 E132002 LR53982C P95103550 2186 | | | | | |

Special Features

- Active power factor correction
- IEC EN6100-3-2 compliance
- Remote sense & remote inhibit
- Power fail
- Single wire current sharing
- Built-in EMI filter
- 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

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 0.7 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



AMERICAS 5810 Van Allen Way Carlsbad, CA 92008

EUROPE

ASIA Units 2111-2116, Level 21 Tower1, Metroplaza

223, Hing Fong Road

Kwai Fong, New Territories Hong Kong Telephone: 852-2437-9662 Facsimile: 852-2402-4426

LPS250 Series

Telephone: 760-930-4600 Facsimile: 760-930-0698

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

Ordering Information

| Model Number | Output Voltaae | Minimum Load | Maximum Load with 30 CFM Forced Air | Peak Load1 | Regulation2 | Ripple P/P (PARD)3 |
|-----------------|-------------------|-----------------|--|---------------|-------------|-----------------------|
| LPS252-C | | 1.50 A | 50 A | 60 A | ±2% | 50 mV |
| LPS253-C | 12 V (6-12 V) | 0.63 A | 21 A | 25 A | ±2% | 120 mV |
| LPS254-C | 15 V (12-24 V) | 0.50 A | 16.7 A | 20 A | ±2% | 150 mV |
| LPS255-C | 24 V (24-48 V) | 0.32 A | 10.4 A | 12.5 A | ±2% | 240 mV |

Notes:

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 ranges.

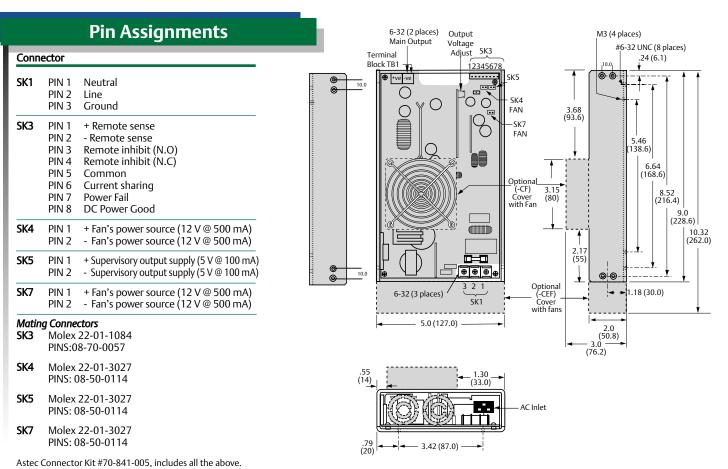
4. If optional CF or CEF fans are not used, 30CFM forced air cooling needs to be provided and is required through

the length of the power supply. Not convection rated.

5. Output voltage adjustment requires a minimum load. 6. Remote inhibit resets OVP latch

Note: -CF suffix added to the model number indicates cover with top fan.

-CEF suffix added to the model number indicates cover with dual end mounted fan cover and AC inlet.



Notes:

- 1. Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is ±.02". 2.
- Specifications are at factory settings. 3.
- To enable normally closed remote inhibit, cut 4. jumper J1.
- 5. Mounting maximum insertion depth is 0.12".
- Warranty: 1 year 6.
- Weight: 2.6 lb / 1.19 kg 7.

