

LPS 250

250 Watts

LPS 250 Series

Total Power	200 - 250 Watts
Input Voltages	85 - 264 VAC 120 - 370 VDC
# of Outputs	Single



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
- 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 conditions

ELECTRICAL SPECIFICATIONS

Input

Input range 85-264 VAC; 120-370 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 <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 ±5% minimum
Supervisory output 5 V @ 100 mA regulated; 12V @ 500 mA
Hold-up time 20 ms @ 250 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

Logic Control

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
Remote on/off Requires an external contact (N.O or N.C)
to inhibit outputs
DC OK TTL logic goes high 50-50 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.

SAFETY

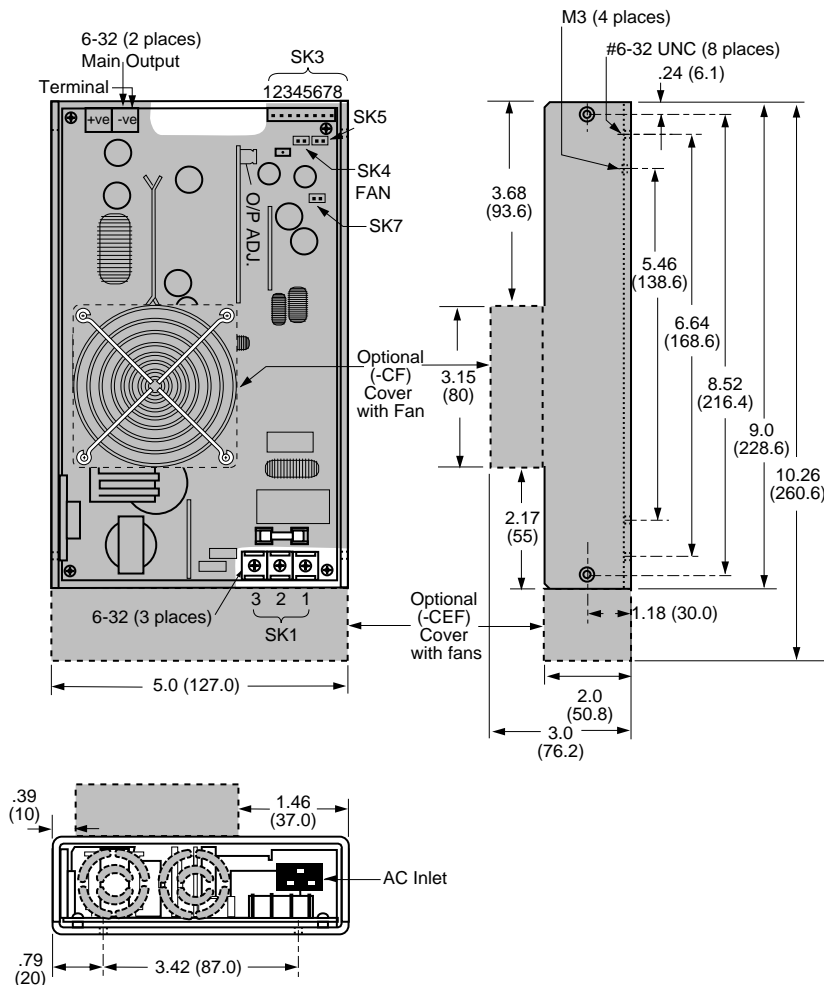
VDE	0805/EN60950 (IEC950)	11774-3336-1262
UL	UL1950	E132002
CSA	CSA 22.2-234 Level 5	LR53982C
NEMKO	EN 60950/EMKO-TUE (74-sec) 203	P95103843
BABT	EN60950/BS7002	PS/606027
CB	Certificate and report	2241
CE	Mark (LVD)	

ORDERING INFORMATION

Model Number	Output Voltage	Minimum Load	Maximum Load with 30 CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
LPS252-C	5 V (3-6 V)	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

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 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.
- 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.

DRAWINGS



PIN ASSIGNMENTS

Connector

SK1	PIN 1	Neutral
	PIN 2	Line
	PIN 3	Ground

SK3	PIN 1	+ Remote sense
	PIN 2	- Remote sense
	PIN 3	Remote inhibit (N.O)
	PIN 4	Remote inhibit (N.C)
	PIN 5	Common
	PIN 6	Current sharing
	PIN 7	Power Fail
	PIN 8	DC Power Good

SK4	PIN 1	+ Fan's power source (12 V @ 500 mA)
	PIN 2	- Fan's power source (12 V @ 500 mA)
SK5	PIN 1	+ Supervisory output supply (5 V @ 100 mA)
	PIN 2	- Supervisory output supply (5 V @ 100 mA)
SK7	PIN 1	+ Fan's power source (12 V @ 500 mA)
	PIN 2	- Fan's power source (12 V @ 500 mA)

Mating Connectors

SK3	Molex 22-01-1084 PINS:08-70-0057
SK4	Molex 22-01-3027 PINS: 08-50-0114
SK5	Molex 22-01-3027 PINS: 08-50-0114
SK7	Molex 22-01-3027 PINS: 08-50-0114

NOTES

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±.02".
3. Specifications are at factory settings.
4. To enable normally closed remote inhibit, cut jumper J1.
5. Mounting maximum insertion depth is 0.15".
6. Warranty: 1 year
7. Weight: 2.6 lb / 1.19 kg