

LPS 350

350 Watts

LPS 350 Series

Total Power	350 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
- Power fail and remote inhibit
- Single wire current sharing
- Built-in EMI filter
- Low output ripple
- Supervisory output 5 V and 12 V
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- Cover -C
- Optional with fan cover -CF
- Optional end-mounted fan - 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 38 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: 350 W with 30 CFM forced air,
(-C) (-CF) (-CEF)
Adjustment range 2:1 wide ratio
Supervisory outputs 5 V @ 500 mA regulated, 12 V @ 150 mA x2
Hold-up time 20 ms @ 350 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: 5.7-6.7 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 50-150 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.

SAFETY

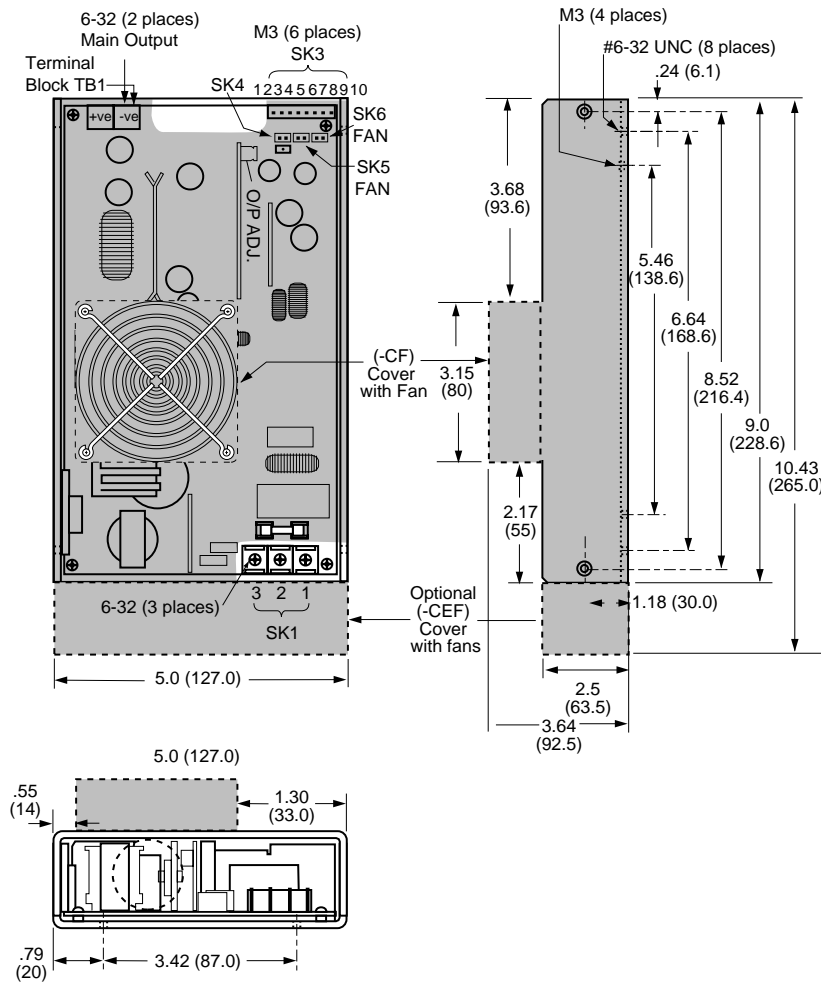
VDE	0805/EN60950 (IEC950)	21310-3336-0001
UL	UL1950	E186249
CSA	CSA 22.2-234 Level 5	LR109492C
NEMKO	EN 60950/EMKO-TUE (74-sec) 203	P98102115
BABT	EN60950/BS7002	608857, 608858, 609097
CB	Certificate and report	5734, 6280, 6281
CE	Mark (LVD)	

ORDERING INFORMATION

Model Number	Output Voltage	Minimum Load	Maximum Load with 30 CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PAR) ³
LPS352-C	5 V (3-6 V)	0 A	70 A	80 A	±2%	50 mV
LPS353-C	12 V (6-12 V)	0 A	29.2 A	33 A	±2%	120 mV
LPS354-C	15 V (12-24 V)	0 A	23.3 A	26 A	±2%	150 mV
LPS355-C	24 V (24-48 V)	0 A	14.6 A	16 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 1A load.
- Note: -CF suffix added to the model number indicates cover with yop fan;
-CEF suffix added to model number indicates end-mounted fan chassis.

DRAWING



PIN ASSIGNMENTS

Connector

Connector	Pin	Assignment
SK1	PIN 1	Neutral
	PIN 2	Line
	PIN 3	Ground
SK3	PIN 1	N/C
	PIN 2	N/C
	PIN 3	+ Sense
	PIN 4	- Sense
	PIN 5	POK
	PIN 6	C.Share
	PIN 7	DC-OK
	PIN 8	Inhibit (N.O.)
	PIN 9	Inhibit (N.C.)
SK4	PIN 1	+ 5 V aux (5 V @ 100 mA)
	PIN 2	- Common
SK5	PIN 1	+ Fan 1 (12 V @ 150 mA)
	PIN 2	- Common
SK6	PIN 1	+ Fan 2 (12 V @ 150 mA)
	PIN 2	- Common

MATING CONNECTORS

SK3	Molex 22-01-1104 PINS:08-70-0057
SK4	Molex 22-01-3027 PINS: 08-50-0114
SK5	Molex 22-01-3027 PINS: 08-50-0114
SK6	Molex 22-01-3027 PINS: 08-50-0114

Astec Connector Kit #70-841-011

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 0.12".
6. Warranty: 1 year
7. Weight: 3.6 lb. / 1.64 kg.

REV 10.5.99