

LPS 25

25 Watts



LPS 25 Series

Total Power	25 - 40Watts
Input Voltages	85 - 264 VAC 120 - 370 VDC
# of Outputs	Single

SPECIAL FEATURES

- Universal input
- High efficiency
- Remote sense
- Built-in EMI filter
- Low output ripple
- Adjustable output
- Overvoltage protection
- Overload protection
- Enclosure kit available (see page 62)

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 EN61000-4, -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
0.75G 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 <15 A peak @ 115 VAC;
<30 A peak @ 230 VAC,
cold start @ 25°C

Input current 1 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 25 W for convection;
40 W with 30 CFM forced air

Minimum load no minimum load required

Adjustment range -5, +10% minimum

Hold-up time 20 ms @ 25 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

Remote sense Compensates for 0.5 V lead drop min. Will
operate without remote sense connected.
Reverse connection protected.

SAFETY

VDE 0805/EN60950 (IEC950) 11774-3336-1241 (LC#84936)

UL UL1950 E132002

CSA CSA 22.2-234 Level 3 LR53982C

NEMKO EN 60950/EMKO-TUE P95100442
(74-sec) 203

BABT EN60950/BS7002 PS/605316

CB Certificate and report 1577, 1578, 1579, 1580

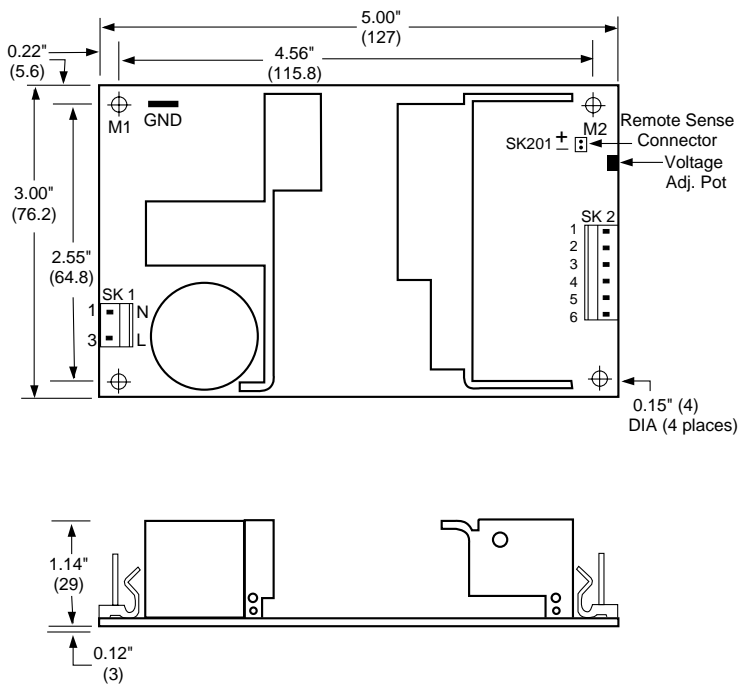
CE Mark (LVD)

ORDERING INFORMATION

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PAR) ³
LPS22	5 V	0 A	5 A	8 A	9 A	± 2%	50 mV
LPS23	12 V	0 A	2.1 A	3.3 A	3.7 A	± 2%	120 mV
LPS24	15 V	0 A	1.7 A	2.7 A	3 A	± 2%	150 mV
LPS25	24 V	0 A	1.1 A	1.8 A	1.9 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.

DRAWINGS



PIN ASSIGNMENTS

Connector	LPS22	LPS23	LPS24	LPS25
SK1-1	Neutral	Neutral	Neutral	Neutral
SK1-3	Line	Line	Line	Line
SK2-1	+5 V	+12 V	+15 V	+24 V
SK2-2	+5 V	+12 V	+15 V	+24 V
SK2-3	+5 V	+12 V	+15 V	+24 V
SK2-4	Common	Common	Common	Common
SK2-5	Common	Common	Common	Common
SK2-6	Common	Common	Common	Common
SK201-1	+Sense	+Sense	+Sense	+Sense
SK201-2	-Sense	-Sense	-Sense	-Sense

MATING CONNECTORS

AC Input: Molex 09-50-8031 (USA)
26-03-4030 (UK)
PINS: 05-58-0189

DC Outputs: Molex 09-50-8061 (USA)
26-03-4061 (UK)
PINS: 05-58-0189

Remote Sense: Molex 22-01-2025
PINS: 08-50-0114

Astec Connector Kit #70-841-006

NOTES

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± .02".
3. Mounting holes M1 and M2 should be grounded for EMI purposes.
4. Mounting hole M1 is safety ground connection.
5. Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
6. Warranty: 1 year
7. Weight: 0.5 lb / 0.23 kg

Power Derating Curve

