

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 36 or PowerFAX Doc. no 1025)

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 0.75G peak 5 Hz to 500 Hz,
operational

Storage temperature: -40° to 85°C

Temperature coefficient: $\pm .04\%$ per
degree 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 < 0.5mA @ 50/60Hz, 264 VAC input

Output

Maximum power	25 W for convection 40 W with 30 CFM forced air
Adjustment range	-5, +10% minimum
Hold-up time	20 ms at 25 watt load and 115 VAC nominal line
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110% to 145% above peak rating
Overvoltage protection	5V output: 5.7 to 6.7 VDC. Other outputs 10% to 25% above nominal output

SAFETY

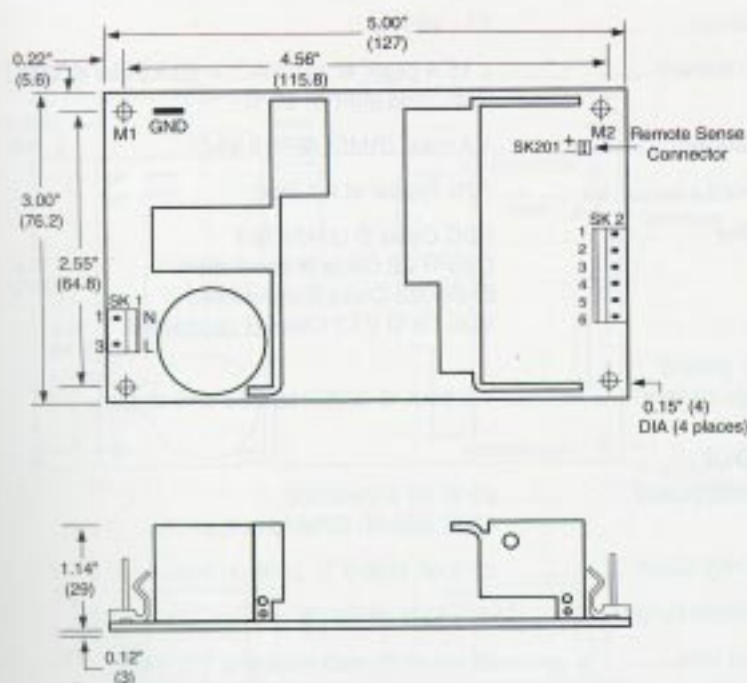
VDE	0805/EN60950 (IEC950)	11774-3336-1241 (LC#84936)
UL	UL1950	E132002
CSA	CSA 22.2-234 Level 3	LR53982C
NEMKO	EN 60950/EMKO-TUE (74-sec) 203	P95100442
BABT	EN60950/BS7002	PS/605316
CB	Certificate and report	1577, 1578, 1579, 1580
CE	Mark	

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 (PARD) 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)
09-91-0300 (UK)
PINS: 08-58-0111

DC Outputs: Molex 09-50-8061 (USA)
09-91-0600 (UK)
PINS: 08-58-0111

Remote Sense: Molex 22-01-2025

NOTES

1. Specifications subject to change without notice.
2. All dimensions are in inches and (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 unless otherwise stated.
6. Warranty: 1 year
7. Weight: 0.5 lb / 0.23 kg

Power Derating Curve

