

LPS 60

60 WATTS

LPS 60 Series

Total Power	60 - 80 Watts
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 VAC to 264 VAC 120 to 370 VDC
Frequency	47 - 440 Hz
Inrush current	< 18 A peak @ 115 VAC < 36 A peak @ 230 VAC cold start @ 25°C
Input current	1.5 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	60 W for convection 80 W with 30 CFM forced air
Adjustment range	-5, +10% minimum
Hold-up time	20 ms at 60 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

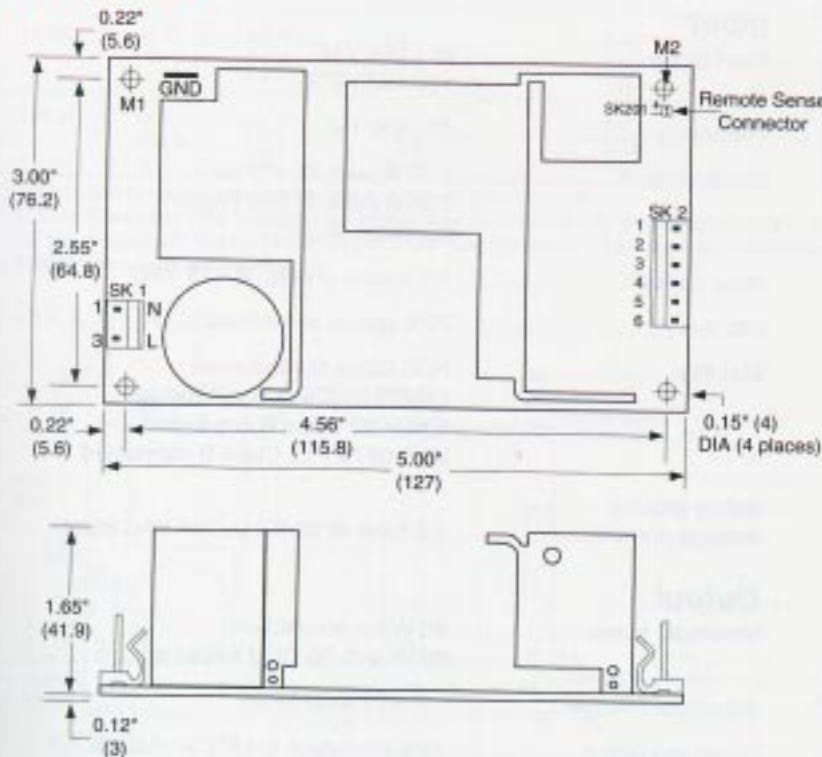
VDE	0805/EN60950 (IEC950)	11774-3336-1255 (LC #86665)
UL	UL1950	E132002
CSA	CSA 22.2-234 Level 3	LR53982C
NEMKO	EN 60950/EMKO-TUE (74-sec) 203	P95100123
BABT	EN60950/BS7002	PS / 605272
CB	Certificate and report	1521, 1522, 1523, 1524
CE	Mark	

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 (PARO) ³
LPS61	3.3V	2A	12A	16A	18A	± 2%	33 mV
LPS62	5 V	0 A	12 A	16 A	18 A	± 2%	50 mV
LPS63	12 V	0 A	5 A	6.7 A	7.5 A	± 2%	120 mV
LPS64	15 V	0 A	4 A	5.3 A	6 A	± 2%	150 mV
LPS65	24 V	0 A	2.5 A	3.3 A	3.8 A	± 2%	240 mV
LPS66	48V	0A	1.3A	1.7A	1.9A	± 2%	480 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



MATING CONNECTORS

AC Input: Molex 09-50-8031 (USA)
09-91-0300 (UK)
PINS: 08-58-0111

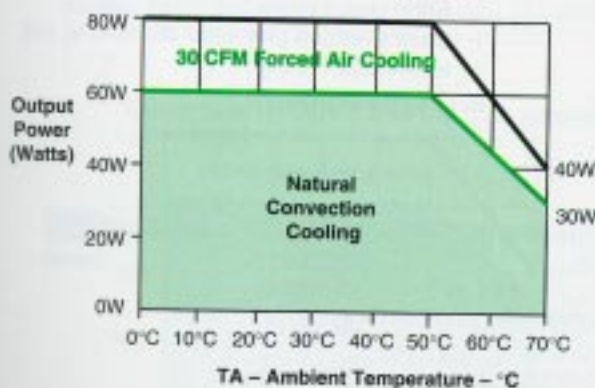
DC Outputs: Molex 09-50-8061 (USA)
09-91-0600 (UK)
PINS: 08-58-0111

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: 0.75 lb./0.34 kg

Power Derating Curve



PIN ASSIGNMENTS

Connector	LPS61	LPS62	LPS63	LPS64	LPS65	LPS66
SK1-1	Neutral Line	Neutral Line	Neutral Line	Neutral Line	Neutral Line	Neutral Line
SK1-3	Neutral Line	Neutral Line	Neutral Line	Neutral Line	Neutral Line	Neutral Line
SK2-1	3.3V	+5 V	+12 V	+15 V	+24 V	48V
SK2-2	3.3V	+5 V	+12 V	+15 V	+24 V	48V
SK2-3	3.3V	+5 V	+12 V	+15 V	+24 V	48V
SK2-4	Common	Common	Common	Common	Common	Common
SK2-5	Common	Common	Common	Common	Common	Common
SK2-6	Common	Common	Common	Common	Common	Common
SK201-1	+Sense	+Sense	+Sense	+Sense	+Sense	+Sense
SK201-2	-Sense	-Sense	-Sense	-Sense	-Sense	-Sense