Rev. 05.27.08 LPS60 Series 1 of 3

LPS60 Series

60 Watts

of Outputs:

Total Power: 60 - 80 Watts **Input Voltage:** 85 - 264 Vac 120 - 300Vdc

Single

Special Features

- Universal input
- 3" x 5" footprint
- Remote sense
- Built in EMI filter
- Low output ripple
- Adjustable output voltage
- Overload protection
- 110 KHz switching frequency
- LPX60 enclosure kit available



UL

CSA

VDE 0805/EN60950 (IEC950)

11774-3336-1255

(LC #86665)

UL1950 E132002

CSA 22.2-234 Level 3

LR53982C

NEMKO EN 60950/EMKO-TUE

P95100123

(74-sec) 203

CB Certificate and report

1521, 1522, 1523, 1524

CE Mark (LVD)





Input

Input range: 85 - 264 Vac (wide range)

120 - 300 Vdc

Frequency: 47-440 Hz

Inrush current: <18A 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; CISPR22 Class B conducted; EN55022

Class B conducted; VDE0878PT3 Class B conducted

Safety ground leakage <0

current:

<0.5 mA @ 50/60 Hz; 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 @ 60 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 - 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.





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Environmental Specifications

Operating temperature: 0° to 50 °C ambient derate each output as 2.5%

per degree from 50° to 70 °C, -20 °C startup

Storage temperature: -40°C to +85 °C

Storage temperature. -40 C to 105

Electromagnetic designed to meet IEC801, -2, -3, -4, -5, -6, Level 3

susceptibility:

Humidity: Operating; non-condensing 5% to 95% RH

Three orthogonal axes, sweep at 1 cot/min,

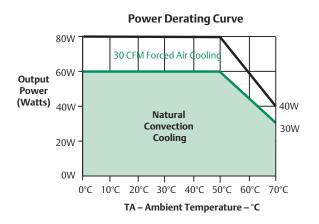
Vibration: 5 min. dwell at four major resonances 0.75 G peak

5 Hz to 500 Hz, operational

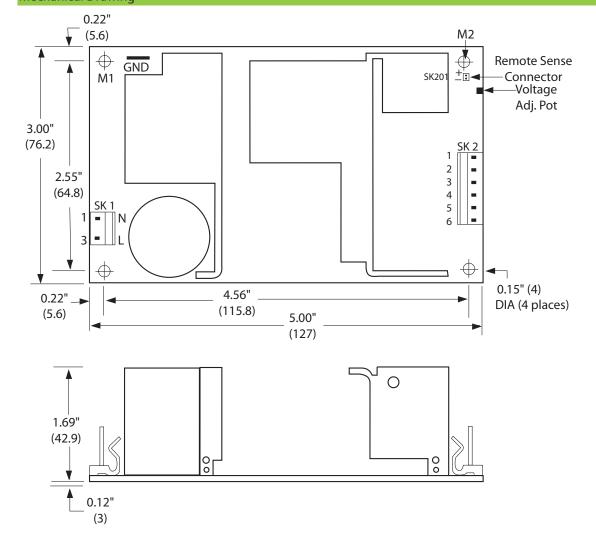
Temperature coefficient ±0.04% per °C

MTBF demonstrated >550,000 hours at full load and 25 °C ambient

conditions



Mechanical Drawing



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Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM forced Air	Peak Load¹	Regulation ²	Ripple P/P (PARD)³
LPS61	3.3 V	2 A	12 A	16 A	18 A	±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
LPS68	48 V	0 A	1.3 A	1.7 A	1.9 A	±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 μ F (tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

Pin Assignments							
Connector	LPS61	LPS62	LPS63	LPS64	LPS65	LPS68	
SK1-1	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	
SK1-3	Line	Line	Line	Line	Line	Line	
SK2-1	3.3 V	5 V	+12 V	+15 V	+24 V	48 V	
SK2-2	3.3 V	5 V	+12 V	+15 V	+24 V	48 V	
SK2-3	3.3 V	5 V	+12 V	+15 V	+24 V	48 V	
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	

Mating Connectors

AC Input: Molex 09-50-8031 (USA) Not required for (-T) option 09-91-0300 (UK)

PINS: 08-58-0111

DC Outputs: Molex 09-50-8061 (USA) Not required for (-T) option

09-91-0600 (UK) PINS: 08-58-0113

Remote Sense: Molex 22-01-2025 PINS: 08-52-0113

Astec Connector Kit #70-841-006, includes all of the above

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ± 0.02 " (± 0.5 mm)
- 3. Mounting holes M1 and M2 should be grounded for EMI purposes.
- 4. Mounting hole M1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 Vac input, 25°C unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.75lbs/0.34kg

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