LPS60 Series 60 Watts

Total Power: Input Voltage: # of Outputs: 60 - 80 Watts 85 - 264 Vac 120 - 300Vdc Single





Electrical Specifications

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 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
Adjustment range Hold-up time	-5, +10% minimum 20 ms @ 60 W load, 115 Vac nominal line
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Hold-up time	20 ms @ 60 W load, 115 Vac nominal line Short circuit protection on all outputs.





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

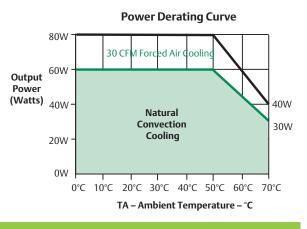
Safety

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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
	P95100123
	(74-sec) 203
CB	Certificate and report
	1521, 1522, 1523, 1524
CE	Mark (LVD)

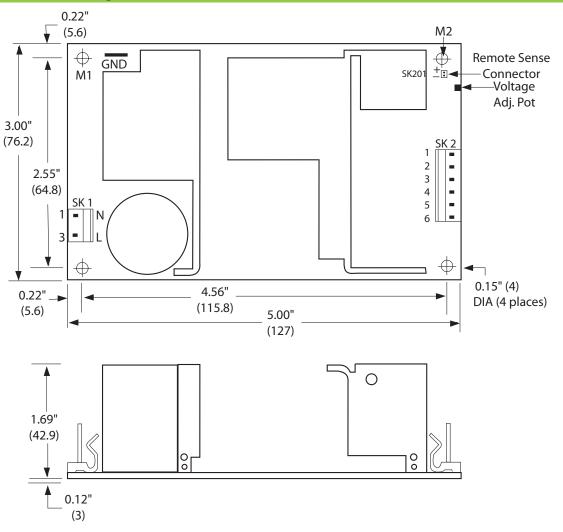
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Environmental Specifications

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
Electromagnetic susceptibility:	designed to meet IEC801, -2, -3, -4, -5, -6, Level 3
Humidity:	Operating; non-condensing 5% to 95% RH
Vibration:	Three orthogonal axes, sweep at 1 cot/min, 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 $10 \,\mu\text{F}$ (tantalum capacitor) in parallel with a 0.1 μF 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

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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 Connecto	or 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" (±0.5mm)
- 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: 2 year
- 7. Weight: 0.75lbs/0.34kg

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