

## LPS40 Series

40 Watts

### Data Sheet

**Total Power: 40 - 55 Watts**  
**Input Voltage: 85 - 264 Vac**  
**120 - 300 Vdc**  
**# of Outputs: Single**

### SPECIAL FEATURES

- Universal input
- 3" x 5" footprint
- Less than 1U high
- Remote sense
- Built-in EMI filter
- Low output ripple
- Adjustable output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available
- RoHS compliant

### SAFETY

- cUL 62368  
E132002
- CSA CSA 22.2-234 Level 3  
LR53982C
- NEMKO EN 62368/EMKO-TUE  
P94100375 (74-sec) 203
- CB Certificate and report  
1119, 1125, 1126, 1127
- CE Mark (LVD)



### Electrical Specifications

Input	
Input range	85 - 264 Vac; 120 - 300 Vdc
Frequency	47 - 440 Hz
Inrush current	< 18 A peak @ 115 Vac; < 36 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	40 W for convection; 55 W with 30CFM forced air
Adjustment range	-5, +10% minimum
Hold-up time	20 ms @ 40 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 minimum Will operate without remote sense connected Reverse connection protected

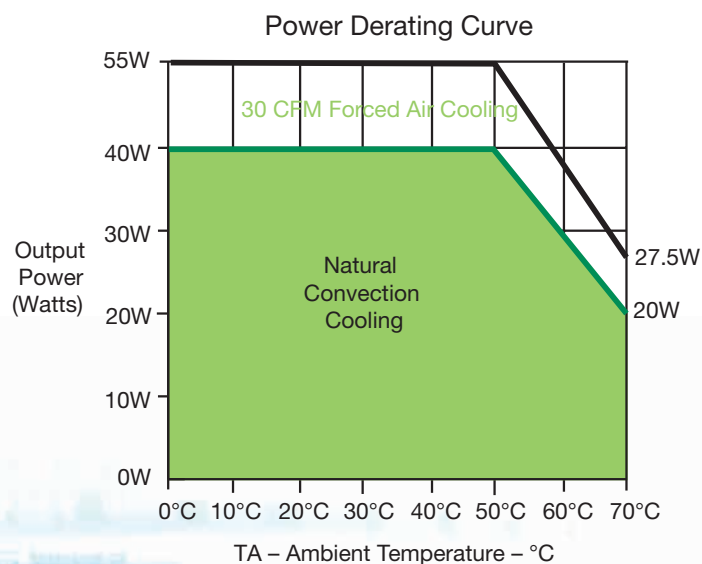
### Environmental Specifications

Operating temperature	0° to 50 °C ambient. Derate each output 2.5% per degree from 50° to 70 °C, -20 °C start up.
Storage temperature	-40 °C to +85 °C
Temperature coefficient	± 0.4% per °C
Electromagnetic susceptibility	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Humidity	Operating; non-condensing 5% to 95% RH
Vibration	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75 G peak 5 Hz to 500 Hz, operational
MTBF demonstrated	> 550,000 hours at full load and 25 °C ambient conditions

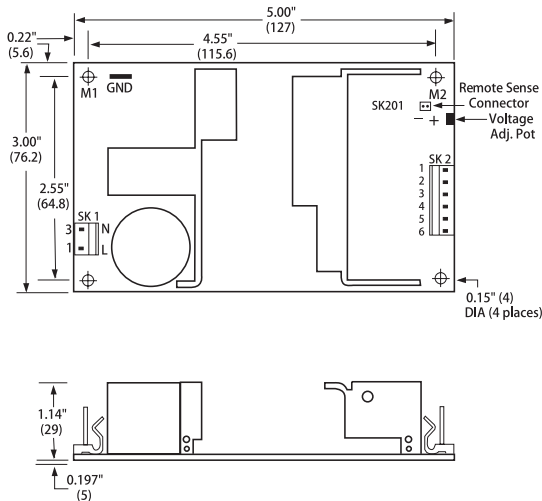
### Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P(PARD) <sup>3</sup>
LPS41	3.3 V	0A	8 A	11 A	12 A	± 2%	50 mV
LPS42	5 V	0A	8 A	11 A	12 A	± 2%	50 mV
LPS43	12 V	0A	3.3 A	4.5 A	5 A	± 2%	120 mV
LPS44	15 V	0A	2.6 A	3.6 A	4 A	± 2%	150 mV
LPS45	24 V	0A	1.7 A	2.3 A	2.5 A	± 2%	240 mV
LPS48	48 V	0A	0.9 A	1.2 A	1.3 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 µF in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. This product is a Component Power Supply and is only for inclusion by professional installers within other equipment and must not be operated as a standalone product. EMC compliance to appropriate standards must be verified at the system level. This product is for sale to OEMs and System Integrators, including through Distribution Channels. It is not intended for sale to End Users.



**Mechanical Drawing**



1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is  $\pm 0.02'' (\pm 0.5\text{mm})$
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: 0.5 lbs/0.23kg

**Pin Assignments**

Connector	LPS41	LPS42	LPS43	LPS44	LPS45	LPS48
SK1-1	Line	Line	Line	Line	Line	Line
SK1-3	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral
SK2-1	+3.3V	+5V	+12V	+15V	+24V	+48V
SK2-2	+3.3V	+5V	+12V	+15V	+24V	+48V
SK2-3	+3.3V	+5V	+12V	+15V	+24V	+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

**Mating Connectors**

AC Input	Molex 09-50-8031 (USA) 09-93-0300 (UK) PINS: 08-52-0113
DC Outputs	Molex 09-50-8061 (USA) 09-93-0600 (UK) PINS: 08-52-0113
Remote Sense	Molex 22-01-2025 PINS: 08-52-0123
Artesyn Embedded Power Connector Kit #70-841-006, includes all of the above	

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