

## L6R18 Series

# 18W Wall Mount Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- Safety Approvals: UL/cUL, CE
- Corded Output Connection
- Lightweight & Compact



Model No.*	Application	Output Connector	Output Voltage	Load (A)			Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
L6R18-050	ITE	Corded Plug	+5.0V	0	2.1	—	±5%	50mVpp	± 1%	±5%
L6R18-090	ITE	Corded Plug	+9.0V	0	2.1	—	±5%	90mVpp	± 1%	± 5%
L6R18-120	ITE	Corded Plug	+12.0V	0	1.5	—	±5%	120mVpp	± 1%	± 5%
L6R18-150	ITE	Corded Plug	+15.0V	0	1.2	—	±5%	150mVpp	± 1%	± 5%
L6R18-180	ITE	Corded Plug	+18.0V	0	1.0	—	±5%	180mVpp	± 1%	± 5%
L6R18-240	ITE	Corded Plug	+24.0V	0	0.8	—	±5%	240mVpp	± 1%	± 5%
L6R18-300	ITE	Corded Plug	+30.0V	0	0.6	—	±5%	240mVpp	± 1%	± 5%
L6R18-360	ITE	Corded Plug	+36.0V	0	0.5	—	±5%	240mVpp	± 1%	± 5%

\* Model No. format: L6R18-YYY, where YYY=050 to 360 representing output voltage. Output voltages from 5.0Vdc to 36Vdc are available for Level VI compliance in increments of 0.1V. Please contact Tri-Mag, LLC for the part number and specifications for your output voltage and/or specific output connector requirements and application.

- **Output voltage** is verified to specification at 60% rated load condition.
- **Line Regulation** is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
- **Load Regulation** is defined by changing  $\pm 40\%$  of measured output load from 60% rated load.
- The ripple and noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 10  $\mu$ F electrolytic and a 0.1  $\mu$ F capacitor at rated load and nominal line.
- **Efficiency** is measured at rated load and nominal line.

# L6R18 Series

Economical and dependable whether powering stationary or portable devices.

This DOE Level VI compliant power supply/charger is rated up to 19W, with plenty of voltage levels to

choose from: 5.0Vdc to 36Vdc (in increments of 0.1V), to match your specific need.

Call us (800-657-0853) for the part number to match your particular need.

## Specifications

### Input

Input Voltage	• 90 VAC ~ 264 Vac
Input Frequency	• 47 Hz to 63 Hz
No Load Input Power	• $\leq 0.1W$
Input Current	• 1.2A Max.
Inrush Current	• 40A Max.
Leakage Current	• 0.25mA Max.
Input Connection	• US (others available)

### Output

Output Voltage Range	• 5.0 ~ 36Vdc
Output Current Range	• 500 - 2100mA, 19.2W Max.
Minimum Load	• No min. load required.
Line Regulation	• $\pm 1\%$ at rated load across input voltage range.
Load Regulation	• $\pm 5\%$
Ripple & Noise	• 240mV p-p Max.
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery

### General

Insulation Resistance	• 50M $\Omega$ Min.
Efficiency	• Level VI compliant
MTBF	• 50,000 Hrs to MIL-HDBK-217F at +25°C

### Environmental

Operating Temperature	• 0°C to 40°C
Operating Humidity	• 5% - 95% RH, Non-Condensing
Storage Temperature	• -20°C to +80°C

### EMC & Safety

Safety Approvals	• cULus: UL60950-1
	• CE
EMC Approvals:	• FCC

### Warranty

Warranty Period	• 1 year
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### Dimensions

Tolerance	• $\pm 0.2mm$
Size	• 71.2 x 43.2 x 29.0 mm 2.80 x 1.70 x 1.14 Inches
Weight	• Approx. 125g (4.4 oz.)
Connectors	• AC input, US 2-prong inlet plug • DC output, standard 5.5mm x 2.1mm x 9.5mm corded dc output plug or per customer specification.
Cord length	• 1500 $\pm$ 20 mm (59 $\pm$ .8")

### Mechanical Drawing

