

## L6R18 Series

# 18W Wall Mount Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- Safety Approvals: UL/cUL, CE, GS
- 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				
L6R18-090	ITE	Corded Plug	+9.0V	0	2.0	—	±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%	150mVpp	± 1%	± 5%
L6R18-240	ITE	Corded Plug	+24.0V	0	0.75	—	±5%	150mVpp	± 1%	± 5%
L6R18-300	ITE	Corded Plug	+30.0V	0	0.6	—	±5%	150mVpp	± 1%	± 5%
L6R18-360	ITE	Corded Plug	+36.0V	0	0.5	—	±5%	150mVpp	± 1%	± 5%

\* Model No. format: L6R18-YYY, where YYY=090 to 360 representing output voltage. Output voltages from 9.0Vdc 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

The L6R18 Series is an economical DOE Level VI compliant wall mount power supply. Rated 18W, they are ideally suited for ITE and other applications. Select

output voltages from 9.0 to 36Vdc (increments of 0.1V) to match your application.

## Specifications

### Input

Input Voltage	• 90 VAC ~ 264 Vac
Input Frequency	• 47 Hz to 63 Hz
No Load Input Power	• ≤ 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	• 9 ~ 36Vdc
Output Current Range	• 500 - 2000mA, 18W Max.
Minimum Load	• No min. load required.
Line Regulation	• ± 1% at rated load across input voltage range.
Load Regulation	• ± 5%
Ripple & Noise	• 150mV p-p Max.
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery

### General

Insulation Resistance	• 50MΩ Min.
Efficiency	• Level VI compliant
MTBF	• TBD 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
	• GS
EMC Approvals:	• FCC

### Warranty

Warranty Period	• 1 year
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### Dimensions

Case size	• 71.2 x 43.2 x 29.0 mm
	• 2.80 x 1.70 x 1.14 Inches

### Mechanical Drawing

