

# LOW PROFILE DIN RAIL POWER SUPPLIES

## SINGLE PHASE 10 TO 100 WATTS

### LP-PS Series



- Universal AC Inputs/Full Range
- Isolation Class 2
- Protections: Short Circuit/Overload/Overvoltage
- LED Indicator for Power On
- 100% Full Load Burn-In Test
- Install on 35 x 7.5 or 35 x 15 mm DIN Rail

The LP-PS Series of power supplies provides a reliable DC power source for any industrial control system. These economical and reliable power supplies for industrial devices are designed to take minimal depth in your electrical control cabinet. The LP-PS Series power supplies offering short-circuit, overload and over-voltage protection. These high quality power supplies have passed a 100% full load burn-in test, and are UL listed, CE marked and are class 2 compliant.

### SPECIFICATIONS

**Working Temperature:** -20 to 50°C (-4 to 122°F)

**Working Humidity:** 20 to 90% RH non-condensing

**Dimensions:** 96 H x 56 mm D (3.66 x 2.22") for width see "To Order" table

**Output Voltage:** 24 Vdc

**Voltage Tolerance:** ±1%

**Line and Load Regulation:** ±1%

**Input Voltage:** 85 to 264 Vac, 47 to 63 Hz, 120 to 370 Vdc

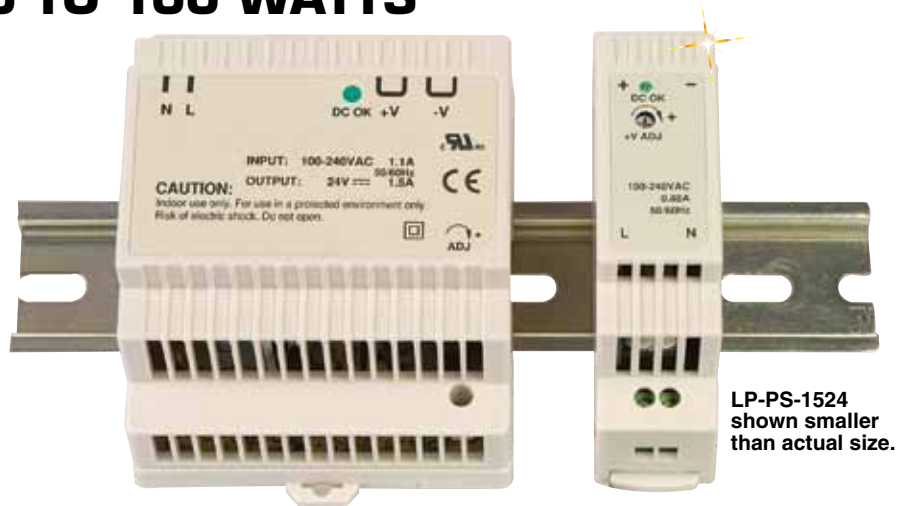
#### AC Current:

**LP-PS-1524 and LP-PS-3024:** 0.88A/115 Vac, 0.48A/230 Vac

**LP-PS-4524:** 1.5A/115 Vac, 0.75A/230 Vac

**LP-PS-6024:** 1.2A/115 Vac, 0.80A/230 Vac

**LP-PS-10024:** 3A/115 Vac, 1.6A/230 Vac



LP-PS-3024 shown smaller than actual size.

LP-PS-1524 shown smaller than actual size.

#### Inrush Current:

**LP-PS-1524:** Cold start 35A/115 Vac, 65A/230 Vac

**LP-PS-3024:** Cold start 15A/115 Vac, 30A/230 Vac

**LP-PS-4524:** Cold start 30A/115 Vac, 60A/230 Vac

**LP-PS-6024:** Cold start 18A/115 Vac, 36A/230 Vac

**LP-PS-10024:** Cold start 30A/115 Vac, 45A/230 Vac

#### OUTPUT

##### Ripple and Noise:

**LP-PS-1524, LP-PS-3024, LP-PS-6024 and LP-PS-10024:** 150 mVp-p

**LP-PS-4524:** 480 mVp-p

##### Voltage Range:

**LP-PS-1524, LP-PS-3024, LP-PS-4524 and LP-PS-6024:** 21.6 to 26.4V

**LP-PS-100724:** 24 to 29V

#### Protection Overload:

**LP-PS-1524, LP-PS-3024, LP-PS-4524 and LP-PS-6024:**

105 to 160%, 27.6 to 32.4V

**LP-PS-10024:** 105 to 135%, 30 to 35V

#### Efficiency:

80 to 89%

**Safety Standards:** EN60950-1, LP-PS-4524 UL508

**Withstand Voltage (I/P-O/P):** 3k Vac

**Insulation Resistance:** I/P-O/P, 100 m Ω/500 Vdc EMI compliance to EN55011, EN55022 (CISPR22), Class B

**Harmonic Current:** Compliance to EN61000-3-2,-3

#### EMS Immunity 10 and 20 W Models:

Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN50204, EN55024, EN61000-6-1, EN61204-3, light industry level, criteria A

#### EMS Immunity 40, 60 and 100 W Models:

Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A

### To Order Visit [omega.com/lp-ps](http://omega.com/lp-ps) for Pricing and Details

MODEL NO.	RATED POWER	CURRENT	WIDTH mm (inch)	DESCRIPTION
LP-PS-1524	15.2 W	0.63 A	25 (0.98)	Low profile 24 Vdc power supply
LP-PS-3024	36 W	1.5 A	78 (3.07)	Low profile 24 Vdc power supply
LP-PS-4524	48 W	2 A	78 (3.07)	Low profile 24 Vdc power supply
LP-PS-6024	60 W	2.5 A	78 (3.07)	Low profile 24 Vdc power supply
LP-PS-10024	100.8 W	4.0 A	100 (3.94)	Low profile 24 Vdc power supply

**Ordering Examples:** LP-PS-3024, low profile 24 Vdc power supply, 1.5 A output.  
LP-PS-6024, low profile 24 Vdc power supply, 2.5 A output.

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