

Space Saving DIN Rail Power Supplies

Single Phase 10 to 100 Watts

SL-PS Series



- ✓ **Universal AC Inputs/Full Range**
- ✓ **NEC Class 2/LPS Compliant**
- ✓ **Protections: Short Circuit/ Overload/ Overvoltage**
- ✓ **LED Indicator for Power On**
- ✓ **% Full Load Burn-In Test**
- ✓ **Installs on 35 x 7.5 or 35 x 15 mm DIN Rail**
- ✓ **Built-In DC OK Active Signal or Relay Contact**

The SL-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 (PLCs, sensors, switches) are designed to take minimal space in your electrical control cabinet. The SL-PS Series of power supplies offer short-circuit, over-load and over-voltage protection.

These high quality power supplies have passed a 100% full load burn-in test, and are UL/CUL listed and CE marked and are NEC class 2 compliant.

SPECIFICATIONS

Working Temperature: -20 to 70°C (-4 to 158°F)

Working Humidity: 20 to 90% RH non-condensing

Dimensions: 90 H x 100 mm D (3.564 x 3.94") for width see ordering table

Output Voltage: 24 Vdc

Ripple and Noise: 150 mVp-p

Voltage Tolerance: ±1%

Line and Load Regulation: ±1%

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



SL-PS-S10024

SL-PS-S1024

Shown smaller than actual size.

Inrush Current:

SL-PS-S1024: Cold start 35 A/115 Vac, 70 A/230 Vac

SL-PS-S2024: Cold start 20 A/115 Vac, 40 A/230 Vac

SL-PS-S4024, SL-PS-S6024: Cold start 30 A/115 Vac, 60 A/230 Vac

SL-PS-S10024: Cold start 30 A/115Vac, 60 A/230 Vac

Protection Overload:

SL-PS-S1024: 105%, 27.6 to 32.4V

SL-PS-S2024: 105 to 160%, 27.6 to 32.4V

SL-PS-S4024, SL-PS-S6024 and

SL-PS-S10024: 105 to 150%, 31.2 to 36V

Efficiency:

84 to 88%

Safety Standards: UL508, EN60950-1*

approved, NEC Class 2/LPS compliant

*Except SL-PS-S2024

Withstand Voltage:

I/P-O/P: 3k Vac; **I/P-FG:** 1.5k Vac

O/P-FG: 0.5k Vac

Insulation Resistance:

I/P-O/P, I/P-FG, O/P-FG: 100 M Ω / 500 Vdc EMI compliance to EN55011, EN55022 (CISPR22), EN61204-3 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 & 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

| MODEL NO. | RATED POWER | CURRENT | WIDTH mm (in) | DESCRIPTION |
|--------------|-------------|---------|---------------|---|
| SL-PS-S1024 | 10 W | 0.42 A | 22.5 (0.89) | Slim 24 Vdc power supply with DC OK active signal, 18 to 27V/20 mA |
| SL-PS-S2024 | 20 W | 1 A | 22.5 (0.89) | Slim 24 Vdc power supply with DC OK active signal, 18 to 27V/20 mA |
| SL-PS-S4024 | 40 W | 0.83 A | 40 (1.57) | Slim 24 Vdc power supply with DC OK relay contact, 30V/1A resistive |
| SL-PS-S6024 | 60 W | 2.5 A | 40 (1.57) | Slim 24 Vdc power supply with DC OK relay contact, 30V/1A resistive |
| SL-PS-S10024 | 100 W | 4 A | 55 (2.17) | Slim 24 Vdc power supply with DC OK relay contact, 30V/1A resistive |

Ordering Examples: SL-PS-S2024, 24 Vdc power supply, 1 A output with DC OK signal.
SL-PS-S6024, 24 Vdc power supply, 2.5 A output with DC OK contact relay.