

ERPF-400-24 Mean Well 24VDC 400.8W 16.7A Enclosed Power Supply Datasheet



Brand: Mean Well

SKU: 924784757477

Category: Power Supplies & Circuit Protection

Price: \$62.99

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Product Description

Mean Well ERPF-400-24 is a 400.8 W enclosed switching power supply featuring a 24 VDC output, 16.7 A rated current, and physical dimensions of 220.4 x 130 x 48 mm. The unit incorporates an active power factor correction (PFC) circuit and is housed in a semi-potted aluminum casing designed for rain splash and dust protection. Internal architecture includes high-efficiency power conversion stages, a terminal block interface for electrical connections, and an LED indicator for operational status. The hardware is engineered for cooling by free air convection without the requirement for internal fans.

ERPF-400-24 Specifications

Model: ERPF-400-24

Brand: Mean Well

Category: Enclosed Switching Power Supply

Output Voltage: 24 VDC

Rated Current: 16.7 A

Current Range: 0 to 16.7 A

Rated Power: 400.8 W

Ripple and Noise: 150 mVp-p

Voltage Adj. Range: 21.6 to 26.4 VDC

Voltage Tolerance: +/- 1.0 %

Line Regulation: +/- 0.5 %

Load Regulation: +/- 0.5 %

Input Voltage Range: 90 to 264 VAC / 127 to 370 VDC

Input Frequency: 47 to 63 Hz

Efficiency: 90 %

AC Current: 5.2 A / 115 VAC, 2.6 A / 230 VAC

Inrush Current: 80 A / 230 VAC

Power Factor: PF > 0.95 / 230 VAC

Leakage Current: < 1.0 mA / 240 VAC

Overload Protection: 105 to 135 % rated output power

Over Voltage Protection: 27.6 to 32.4 V

Over Temperature Protection: Shut down o/p voltage, re-power on to recover

Operating Temperature: -30 to +70 °C

Operating Humidity: 20 to 90 % RH non-condensing

Storage Temperature: -40 to +85 °C

Vibration: 10 to 500 Hz, 2G 10 min./1 cycle, 60 min. each along X, Y, Z axes

Safety Standards: UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1

Withstand Voltage: I/P-O/P: 3 kVAC, I/P-FG: 2 kVAC, O/P-FG: 0.5 kVAC

Isolation Resistance: I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500 VDC / 25 °C / 70 % RH

EMC Emission: BS EN/EN55032 Class A, BS EN/EN61000-3-2,3

EMC Immunity: BS EN/EN61000-4-2,3,4,5,6,8,11

MTBF: 168.2K hours min.

Dimensions: 220.4 x 130 x 48 mm (L x W x H)

Weight: 1.1 kg

ERPF-400-24 Applications

Primary applications include integration into outdoor LED moving signs, large-scale electronic billboards, and architectural channel letter lighting. Deployed within industrial automation control panels and high-power LED strip installations requiring rainproof protection.

Supplemental Images

