

Power Supply 48V, 31.2A - 1500W - 1 Output

Reference: AM4237

EAN13: -

HS code: 85044090



Product attributes:

Product features:

Input voltage: 180–264 V AC, 45–65 Hz

Output voltage: 48 V DC

Output current: 31 A

Output power: 1500 W

Waterproof grade: IP20

Product description:

Introducing the range of highly reliable industrial switching power supplies IPS-SP-1500, designed for demanding applications requiring precisely regulated power supply. Each model offers smooth regulation of output voltage and current, allowing precise adaptation to your application requirements. These robust metal-cased supplies with IP20 protection are ideal for integration into distribution cabinets and industrial systems.

Key Features:

- **Variable Output Voltage:** Smoothly adjustable from 0 V to 48 V DC using a precise adjustment trimmer
- **High Output Current:** Stable 31.2 A for demanding applications
- **Wide Range of Input Voltage:** 180–264 V AC, 45–65 Hz
- **High Efficiency:** 89% for economical operation with minimal heat loss
- **Active Cooling:** Ensures optimal operating temperature even under high load

Comprehensive Protective Functions:

- Overload Protection (105%–150%)
- Overvoltage Protection
- Short Circuit Protection with automatic recovery
- Thermal Protection at $\geq 70^{\circ}\text{C}$ with automatic recovery below 50°C

Practical Design:

- Standard terminal block with screws for easy connection
- LED indicator for visual power check
- Durable metal construction ensuring long lifespan

Advanced Control Functions:

- **External Potentiometer:** Remote control of voltage and current
- **Analog Voltage Control:** Support for 0–5 V / 0–10 V control signal
- **Auxiliary Power Output:** 12 V 0.5 A for external device power
- **Remote Switching:** Default on, off with high level (3 V–12 V)

Ideal Applications:

- **Automation Systems:** Control of industrial processes and production lines
- **Servo Drives and Motors:** Precise power control for various drives
- **Telecommunication Equipment:** Reliable power supply for critical communication systems
- **Industrial Control Systems:** Stable power supply for PLC and other control elements
- **Testing and Measurement Equipment:** Precise power supply for laboratory and testing applications
- **Entrance Gates and Security Systems:** Uninterruptible power for security elements

Technical Specifications:

- **Input Voltage:** 180–264 V AC, 45–65 Hz
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- **Output Voltage:** 0-48 V DC
- **Output Current:** max. 31.2 A (48 V DC)
- **Output Voltage Accuracy:** $\pm 1.0\%$
- **Regulation with Input Voltage Change:** $\pm 1.0\%$
- **Regulation with Load Change:** $\pm 1.0\%$
- **Efficiency:** 89%
- **Rise Time:** 1500 ms, 100 ms at 230 V AC (full load)
- **Output Voltage Ripple:** 200-1000 mV (depending on model)
- **Insulation Resistance:** 100 M Ω at 500 V DC (25°C, 70% RH)
- **Dielectric Strength:** I/P-O/P: 1.2 kV AC, I/P-FG: 1.2 kV AC, O/P-FG: 0.5 kV AC
- **Operating Temperature:** -20°C to +60°C
- **Operating Humidity:** 0-90% RH (non-condensing)
- **Vibration Resistance:** 10-500 Hz, 2 G (tests 10 min/cycle, axes X, Y, Z for 60 min.)
- **Dimensions:** 277 x 155 x 70 mm (L x W x H)
- **Weight:** 2.4 kg

