

Power Supply 24V, 62.5A - 1500W - 1 output

Reference: AM2865

EAN13: -

HS code: 85044090



Product attributes:

Product features:

Input voltage: 180–264 V AC, 45–65 Hz

Output voltage: 24 V DC

Output current: 62.5 A

Output power: 1500 W

Waterproof grade: IP20

Product description:

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

Key Features:

- **Variable output voltage:** Smoothly adjustable from 0 V to 24 V DC using a precise adjustment trimmer
- **High output current:** Stable 62.5 A for demanding applications
- **Wide input voltage range:** 180–264 V AC, 45–65 Hz
- **High efficiency:** 86% for economical operation with minimal heat loss
- **Active cooling:** Ensures optimal operating temperature even at high load

Comprehensive Protective Functions:

- Overload protection (105%–150%)
- Overvoltage protection
- Short circuit protection with automatic recovery
- Thermal protection at ≥ 70 °C with automatic recovery when falling below 50 °C

Practical Design:

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

Advanced Control Features:

- **External potentiometer:** Option for remote control of voltage and current
- **Analog voltage control:** Supports 0–5 V / 0–10 V control signal
- **Auxiliary power output:** 12 V 0.5 A for powering external devices
- **Remote switching:** Default state on, off by 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
- **Telecommunications equipment:** Reliable power supply for critical communication systems
- **Industrial control systems:** Stable power supply for PLCs and other control elements
- **Testing and measuring equipment:** Precise power supply for laboratory and testing applications
- **Input gates and security systems:** Uninterruptible power supply for security elements

Technical Specifications:

- **Input voltage:** 180–264 V AC, 45–65 Hz
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- **Output voltage:** 0-24 V DC
- **Output current:** max. 62.5 A (24 V DC)
- **Output voltage accuracy:** $\pm 1.0\%$
- **Regulation with input voltage change:** $\pm 1.0\%$
- **Regulation with load change:** $\pm 1.0\%$
- **Efficiency:** 86%
- **Startup 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

