

# Power Supply 12V, 125A - 1500W - 1 Output

Reference: AM3018

EAN13: -

HS code: 85044090



## Product attributes:

## Product features:

Input voltage: 180–264 V AC, 45–65 Hz

Output voltage: 12 V DC

Output current: 125 A

Output power: 1500 W

Waterproof grade: IP20

## Product description:

Introducing the IPS-SP-1500 series of highly reliable industrial switched power supplies, 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 supplies, with metal construction and IP20 protection, are ideal for installation in distribution cabinets and industrial systems.

## Key Features:

- **Variable Output Voltage:** Smoothly adjustable from 0 V to 12 V DC using a precise adjustment trimmer
- **High Output Current:** Stable 125 A for demanding applications
- **Wide Input Voltage Range:** 180–264 V AC, 45–65 Hz
- **High Efficiency:** 85% for economical operation with minimal heat losses
- **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  $\geq 70$  °C with automatic recovery when dropping below 50 °C

## Practical Design:

- Standard screw terminals for easy connection
- LED indicator for visual power monitoring
- Durable metal construction for 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 powering external devices
- **Remote Switching:** Default state on, off at high level (3 V–12 V)

## Ideal Applications:

- **Automation Systems:** Control of industrial processes and production lines
- **Servomotors and Motors:** Precise power control for various drives
- **Telecommunication Devices:** 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
- **Entry 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:** 0-12 V DC
- **Output Current:** max. 125 A (12 V DC)
- **Output Voltage Accuracy:**  $\pm 1.0\%$
- **Line Regulation:**  $\pm 1.0\%$
- **Load Regulation:**  $\pm 1.0\%$
- **Efficiency:** 85%
- **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 $\Omega$  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 (10 min/cycle, X, Y, Z axes for 60 min.)
- **Dimensions:** 277 x 155 x 70 mm (L x W x H)
- **Weight:** 2.4 kg

