

Power Supply 300V DC, 5A - 1500W - 1 Output

Product codes:

Reference: AM4128

EAN13: -

UPC: 85044090

Product features:

Input voltage: 180-264 V AC, 45-65 Hz

Output voltage: 0-300 V DC

Output current: 5 A

Output power: 1500 W

Waterproof grade: IP20



Product attributes:

Product description:

Introducing the IPS-SP-1500 series of highly reliable industrial switching power supplies, designed for demanding applications requiring precisely regulated power. Each model offers smooth regulation of output voltage and current, allowing precise adaptation to your application requirements. These robust sources 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 300 V DC using a precise trim adjustment
- **High Output Current:** Stable 5 A for demanding applications
- **Wide Input Voltage Range:** 180-264 V AC, 45-65 Hz
- **High Efficiency:** 91% 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 Auto Recovery
- Thermal Protection at $\geq 70^{\circ}\text{C}$ with Auto 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 Features:

- **External Potentiometer:** Option for Remote Voltage and Current Control
- **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 by High Level (3 V–12 V)

Ideal Applications:

- **Automation Systems:** Control of Industrial Processes and Production Lines
- **Servos and Motors:** Precise Power Control for Various Drives
- **Telecommunication Equipment:** Reliable Power for Critical Communication Systems
- **Industrial Control Systems:** Stable Power for PLCs and Other Control Elements
- **Testing and Measuring Devices:** Accurate Power for Laboratory and Testing Applications
- **Input Gates and Security Systems:** Uninterrupted Power for Security Elements

Technical Specifications:

- **Input Voltage:** 180–264 V AC, 45–65 Hz
 - **Output Voltage:** 0–300 V DC
 - **Output Current:** max. 5 A (300 V DC)
 - **Output Voltage Accuracy:** $\pm 1.0\%$
 - **Regulation with Input Voltage Change:** $\pm 1.0\%$
 - **Load Regulation:** $\pm 1.0\%$
 - **Efficiency:** 91%
 - **Start-up 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 $^{\circ}\text{C}$, 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
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- **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, X, Y, Z axes for 60 min.)
- **Dimensions:** 277 × 155 × 70 mm (L × W × H)
- **Weight:** 2.4 kg

Product gallery:

