

Power supply 0-300V DC, 8.3A - 2500W

Reference: AM2567

EAN13: -

HS code: 85044090

Product attributes:

Product features:

Input voltage: 180–264 V AC, 45–65 Hz

Output voltage: 0-300 V DC

Output current: 8.3 A

Output power: 2500 W

Waterproof grade: IP20



Product description:

Introducing the IPS-SP-2500 series of highly reliable industrial switching power supplies, designed for demanding applications requiring precisely regulated power. Each model offers continuous regulation of output voltage and current, allowing precise adjustment to the requirements of your applications. These robust power supplies in a metal design with IP20 protection are ideal for installation in distribution cabinets and industrial systems.

Key features:

- **Variable output voltage:** Continuously adjustable from 0 V to 300 V DC using a precision adjustment trimmer
- **High output current:** Stable 8.3 A for demanding applications
- **Wide input voltage range:** 180-264 VAC, 45-65 Hz
- **High efficiency:** 91% for economical operation with minimal heat loss
- **Active cooling:** Ensures optimal operating temperature even under high load

Comprehensive protective functions:

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

Practical design:

- Standard screw terminal blocks for easy connection
- LED indicator for visual power check
- Durable metal construction ensures long life

Advanced control functions:

- **External potentiometer:** Possibility of remote control of voltage and current using a 10kOhm potentiometer
- **Analog voltage control:** Support 0-5V/0-10V control signal
- **Auxiliary power output:** 12V 0.5A for powering external devices
- **Remote switching:** Default on, high level off (3V-12V)

Ideal application:

- **Automation systems:** Industrial process and production line control
- **Servo drives and motors:** Precise power control for various drives
- **Telecommunications equipment:** Reliable power for critical communication systems
- **Industrial control systems:** Stable power supply for PLCs and other control elements
- **Test and measurement equipment:** Precision power supply for laboratory and test applications
- **Entrance gates and security systems:** Uninterruptible power supply for security elements

Technical specifications:

- **Input voltage:** 180-264VAC, 45-65Hz
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- **Output voltage:** 0-300V DC
- **Output current:** max. 8.3 A (300 V DC)
- **Output voltage accuracy:** $\pm 1.0\%$
- **Regulation when changing input voltage:** $\pm 1.0\%$
- **Load change regulation:** $\pm 1.0\%$
- **Efficiency:** 94%
- **Rise time:** 1500 ms, 700 ms at 230 V AC (full load)
- **Output voltage ripple:** 1000 mV
- **Insulation resistance:** 100 M Ω at 500 V DC (25 °C, 70% RH)
- **Dielectric strength:** I/PO/P: 2 kV AC, I/P-FG: 2 kV AC, O/P-FG: 0.5 kV AC
- **Working 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:** 285 x 185 x 70 mm (L x W x H)
- **Weight:** 4.5 kg

