

# Power supply 220V DC, 6.5A - 1500W - 1 output

## Product codes:

Reference: AM3809

EAN13: -

UPC: 85044090

## Product features:

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

Output voltage: 0-220 V DC

Output current: 6.5 A

Output power: 1500 W

Waterproof grade: IP20



## Product attributes:

## Product description:

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

## Key Features:

- **Variable output voltage:** Continuously adjustable from 0 V to 220 V DC using a precise adjustment trimmer
- **High output current:** Stable 6.5 A for demanding applications
- **Wide input voltage range:** 180-264 V AC, 45-65 Hz
- **High efficiency:** 91% for economical operation with minimal heat loss
- **Active cooling:** Ensures optimal operating temperature even under high load

## Comprehensive protective functions:

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

### Advanced control functions:

- **External potentiometer:** 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 is on, off by 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 equipment:** Reliable power supply for critical communication systems
- **Industrial control systems:** Stable power supply for PLC and other control elements
- **Testing and measuring equipment:** Precise power supply for laboratory and testing applications
- **Entry gates and security systems:** Uninterruptible power supply for security elements

### Technical specifications:

- **Input voltage:** 180–264 V AC, 45–65 Hz
  - **Output voltage:** 0–220 V DC
  - **Output current:** max. 6.5 A (220 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 $\Omega$  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
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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, axes X, Y, Z for 60 min.)
- **Dimensions:** 277 × 155 × 70 mm (L × W × H)
- **Weight:** 2.4 kg

**Product gallery:**

