



PSM500 500W 1U RPS and Bulk n+1 Power Supply with active PFC



Features

- SELV Output with 1500VAC Isolation
- 500 Watts X 3 in 1U 19" Rack
- Hot Plug N+1
- Diagnostics
- Full Protection OTP, OCP, OVP
- 85-265VAC with Active PFC

Applications

- Power Over Ethernet
- Telecommunications
- Network Redundant Power Source
- Servers

Safety Approvals

- cUL/UL
- CE
- TÜV

Mechanical Characteristics

- Length: 300mm (11.81in)
- Width: 107mm (4.21in)
- Height: 41mm (1.61in)
- Weight: 1.81kg (4lb.)

Output Specifications

| Model | DC Output Voltage | Load | | Ripple (1) P-P (max) | Regulation | |
|------------|-------------------|------|------|-------------------------|------------|------|
| | | Min. | Max. | | Line | Load |
| PSM500-210 | 50V (main) | 0A | 10A | 1% | ±0.5V | |
| | 12V (stand by) | 0A | 1.5A | | | |
| PSM500-216 | 56V (main) | 0A | 9A | 1% | ±0.5V | |
| | 12V (stand by) | 0A | 1.5A | | | |

Note: (1) Measured with by-pass capacitors 0.1uf/10uf at output connector terminal and oscilloscope set at 20Mhz.

Phihong reserves the right to make changes without further notice. Please consult Phihong USA and visit www.phihong.com for the most up-to-date specifications.

INPUT:**AC Input Voltage Range**

85 to 264VAC

AC Input Current

6A(RMS) max. for 115VAC

3A(RMS) max. for 230VAC

AC Input Line Fuse

10A / 250V

Leakage Current

3.5mA max. @ 254VAC 60Hz

AC Input Frequency

47-63Hz

AC Inrush Current

30A(RMS) max. for 115VAC

60A(RMS) max. for 230VAC

OUTPUT:**Efficiency**

83% typical at max. load (115VAC)

85% typical. at max. load (230VAC)

Hold-up Time

10mS min. 120VAC and max. load

Over Voltage Protection

OV set at 57~60V – latching.

Over Current Protection

Protection against short circuit. Isc max 110%-140% full load current. The 50V, 56V can operate in current mode till shot circuit and can be shorted permanently without damage.

ENVIRONMENTAL:**Temperature**

Operation 0 to +50°C

Non-operation -30 to +70°C

Humidity

Operation 8 to 90%

EMC

FCC Class B

EN55022 conducted Class B *with external filter
(*measured with Y capacitors 0.01uf/400Vat main output connector terminal from $\pm V$ to unit chassis)

EN55022 conducted Class B; radiated Class A
(using 3 x PSM500-210, or -216 in rack “PSA1554-605”)

Isolation Test

Primary to Secondary: 4242VDC

Primary to Ground: 2121VDC

Secondary to Ground: 2121VDC

Immunity EN50082-1

ESD: EN61000-4-2. Level 3

EFT: EN61000-4-4. Level 2

Surge: EN61000-4-5. Level 3

CS: EN61000-4-6. Level 3

Voltage Dips EN61000-4-11

RS: EN61000-4-3. Level 3

Harmonic: EN61000-3-2

FEATURE:**Front Panel LED**

DC Good, Fault condition

50V Enable/Disable

Non latching – remote on/off pin

Thermal Shutdown

Latching

Fan Fail

Latching

Load Sharing

10% at full load

Isolated Diode

Internal Oring Diode located on main (-) output section.

Output Connector

Molex p/n 15060141 or equivalent

Molex p/n 15249144 or equivalent (mating)

Dimension Diagram Unit: mm (inch)

