



PSM500 500W 1U RPS and Bulk n+1
With Active PFC



Features

- SELV Output with 1500 V AC Isolation
- 500 Watts X 3 in 1U 19" Rack
- Hot Plug N+1
- Diagnostics
- Full Protection OCP, OVP, OTP
- 85-256V AC with Active PFC

Applications

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

Safety Approvals

- cUL/UL
- CE
- TUV

Mechanical Characteristics

- Length: 300mm (11.81in)
- Width: 107mm (4.21in)
- Height: 41mm (1.61in)
- Weight: 1.8Kg (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 (Standby)	0A	1.5A			
PSM500-216	56V (Main)	0A	9A	1%	±0.5V	
	12V (Standby)	0A	1.5A			

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

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INPUT:**AC Input Voltage Range**

85 to 264VAC

AC Input Current

6A (RMS) maximum for 115VAC

3A (RMS) maximum for 230VAC

AC Input Line Fuse

10A/ 250V

Leakage Current

3.5mA maximum @ 254VAC 60Hz

AC Input Frequency

47-63Hz

AC Inrush Current

30A (RMS) maximum for 115VAC

60A (RMS) maximum for 230VAC

OUTPUT:**Efficiency**

83% (typical) at maximum load, and 115VAC/230VAC

Hold-up Time

10mS min. 120VAC and maximum 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 short 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 PSA1553-605)

Isolation Test

Primary to Secondary: 4242V DC

Primary to Field Ground: 2121V DC

Output to Field Ground: 2121 V DC

Immunity

ESD: EN61000-4-2. Level 3

RS: EN61000-4-3. 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

Harmonic: EN61000-3-2

FEATURE:**Front Panel LED**

DC Good, Fault condition

50V Enable/Disable

Non latching – remote on/off pin (short pins 10 and 11 on output connector to enable)

Thermal Shutdown

Latching

Fan Fail

Latching

Load Sharing

Within 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)

