



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

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)

