



PSA1554 Rack accommodating 500-1500W (DC)
Up to 3 PSM500 Power Supplies



Features

- Accommodates up to 3 power supplies
- Hot Plug N+ 1
- 4 individually current limited output to protect wiring

Applications

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

Safety Approvals (per module)

- CE
- cUL/UL

Mechanical Characteristics

- Length: 437.7mm (17.2in)
- Width: 355.4mm (14.0in)
- Height: 43mm (1.7in)
- Weight: 8.2Kg (18lb.)

Output Specifications (per module)

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.

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

INPUT:**AC Input Voltage Range**

90 to 264VAC

AC Input Current

3 x 6A (RMS) maximum for 115VAC

3 x 3A (RMS) maximum for 230VAC

AC Input Line Fuse

10A/ 250V

(located internally in module)

Leakage Current (per module)

3.5mA maximum @ 254VAC 60Hz

AC Input Frequency (per module)

47-63Hz

AC Inrush Current (per module)

30A (RMS) maximum for 115VAC

60A (RMS) maximum for 230VAC

OUTPUT:**Power**

500 –15000W continuous

Efficiency per Module

80% (typical) at maximum load, and 115VAC/230VAC

Hold-up Time

10mS min. 120VAC and maximum load

Over Voltage Protection (per module)

OV set at 57~60V – latching

Over Current Protection

Protection against short circuit. Isc max set to 120%-140% full load current per module. Within the rack, each module is load protected by PTC Resettable Fuses. Output may be shorted permanently without damage.

ENVIRONMENTAL:**Temperature**

Operation 0 to +40°C

Non-operation -30 to +70°C

Humidity

Operation 8 to 90%

Isolation Test (per module)

Primary to Secondary: 4242V DC

Primary to Field Ground: 2121V DC

Output to Field Ground: 2121 V DC

EMC

EN55022 conducted Class B; radiated Class A

(Measured using 3 x PSM500-XXX, in PSA1554-611)

Immunity (per module)

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 per module

Rear Panel LED

Red LED illuminates when a fault such as SC or Overload has caused the internal PTC to go high impedance.

Enable/Disable (main 50V/56V)

Non latching – remote on/off pin

Thermal Shutdown (per module)

Latching

Fan Fail (per module)

Latching

Load Sharing

10% at full load

Isolated Diode

Internal O-ring Diode Located on main (-) output section

Output Connector

14 pin Molex p/n 39301140

14 pin Molex p/n39012145 (mating x 4 per rack), pin p/n 39000077 or equivalent

Signal	Reference Pin	Signal	Reference Pin
+50V	1	+50V	8
+50V	2	+50V Return	9
+50V Return	3	+50V Return	10
Current Share	4	Not Used	11
Not Used	5	Not Use	12
Not Used	6	*Fault	13
Standby 12V	7	**Common GND	14

*Fault: A fault low signal at pin 13 of output connector A,B, or C represents a fault to Module 1,2 or 3. A fault low signal at pin 13 of output connector D represents a global fault to rack.

**Common Ground, standby and Fault

