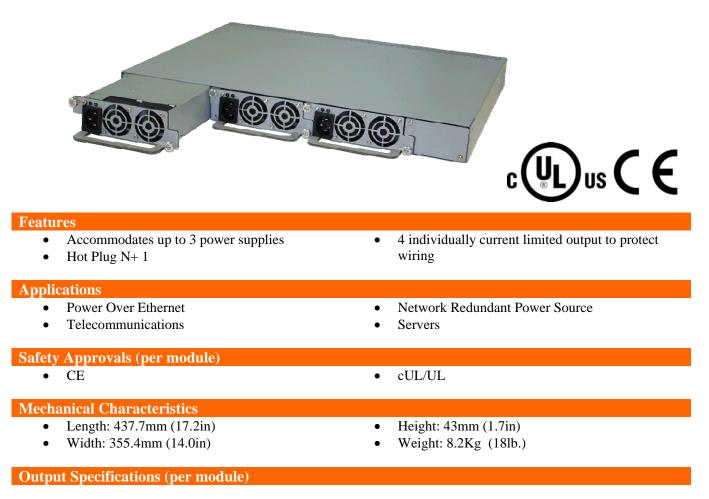
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PSA1554 Rack accommodating 500-1500W (DC) Up to 3 PSM500 Power Supplies



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

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

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PSA1554-605 Characteristics

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.

0 to $+40^{\circ}$ C

8 to 90%

ENVIRONMENTAL:

Temperature Operation

Non-operation $-30 \text{ to } +70^{\circ}\text{C}$

Humidity

Operation

Isolation Test (per module)

Primary to Secondary: 4242V DC Primary to Field Ground: 2121V DC Output to Field Ground: 2121 V DC

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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 cause 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

Dimension Diagram Unit: mm

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