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# 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	Load		Ripple (1) Regulation		lation
	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

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# **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  $0 \text{ to } +40^{\circ}\text{C}$ Non-operation  $-30 \text{ to } +70^{\circ}\text{C}$ 

# 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 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

<sup>\*</sup>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.

<sup>\*\*</sup>Common Ground, standby and Fault

