



**PSM1000 1100W 1U RPS and Bulk n+1 Power Supply with active PFC**



**Features**

- SELV Output with 1500VAC Isolation
- 1100W x 3 in 1U 19” Rack
- Hot Plug N+1
- Diagnostic LEDs
- Full Protection OTP, OCP, OVP

**Applications**

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

**Safety Approvals**

- cUL/UL
- CE

**Mechanical Characteristics**

- Length: 300mm (11.81in)
- Width: 107mm (4.21in)
- Height: 41mm (1.61in)
- Weight: 2Kg (4lb)

**Output Specifications**

Model	DC Output Voltage	Min. Load	Max. Load		Max Power
			≤100VAC IN	≥115VAC IN	
PSM1000-216	56V (Main)	0A	17.8A	19.65A	1100W*
	12V (Stand-by)	0A	0.5A		

\*Please refer to second page for more specific output power information

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**Input:**

**AC Input Voltage Range**  
90 to 264V AC

**AC Input Frequency**  
47 to 63Hz

**Input Current**  
15A (RMS) max low line  
7.5A (RMS) max high line

**AC Input Line Fuse**  
20A/250V

**Leakage Current**  
3.5mA maximum at 264V AC, 50Hz

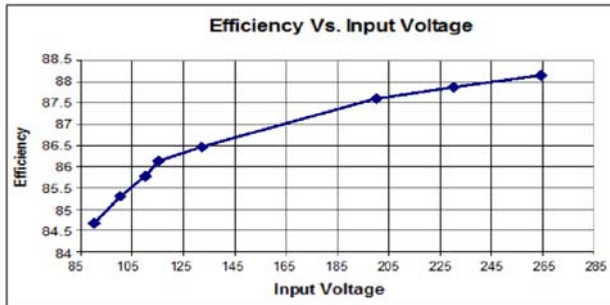
**Inrush Current**  
35A maximum at 115VAC  
70A maximum at 230VAC

**Hold-up Time**  
10mS minimum at max load with output dropping to 50V

**Output:**

**Output Power**  
1100W for AC Input 115VAC to 264VAC  
1000W for AC Input 100VAC or less

**Efficiency**  
≥85% (typical) at 115VAC or greater



**Output Ripple and Noise**  
56V=1% pk-pk at ambient 25°C  
12V=2% pk-pk at ambient 25°C

**Over-Voltage Protection**  
Latching, OV set at 60V±5%

**Thermal Shutdown**  
Non latching

**Over-Current/Short-Circuit Protection**

Latching with timer; the 56V output can operate in current mode till short circuit. Output latches within 2-4 seconds if overload or short circuit. The condition will not be removed.

**56V Enable/Disable**

Non-latching –remote on/off pin, short to output return to enable

**Fan Fail**

Latching

**Environmental:**

**Temperature**

Operation (Standalone) 0 to 50°C  
Operation (In Rack) 0 to 40°C  
Non-operation -30 to +70°C

**Emissions**

FCC Class A  
EN55022 Class A

**Immunity**

ESD: EN61000-4-2 Level 4  
RS: EN61000-4-3 Level 3  
EFT: EN61000-4-4 Level 3  
Surge: EN61000-4-5 Level 4  
CS: EN61000-4-6 Level 3  
Voltage Dips: EN61000-4-11  
Harmonic: EN61000-3-2

**Insulation Resistance**

Input to Output: 7M ohm 500VDC

**Dielectric Withstand (Hi-pot) Test**

Primary to Secondary: 4242VDC for 1 minute  
Primary to Chassis: 2121VDC for 1 minute  
Secondary to Chassis: 2121VDC for 1 minute

**Indicators (Front Panel)**

DC Good LED – Green  
Fault LED – Red (Fan Fail, Thermal Shutdown, Over Load, Short Circuit)

**AC Input Connector**

IEC320 3-Pin located on the front of the module

**DC Output Connector**

FCI p/n 51761-10001604AA or Equivalent  
Mate FCI p/n 51731-29 or Equivalent  
Pin Out +56V main +P1, P2; -56V main = P3, P4;  
Enable – A4; CS\_BUS = D4; +12Vsb =C1, D1; -12Vsb +A1, B1

