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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)

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• Height: 41mm (1.61in)

• Weight: 2Kg (4lb)

Output Specifications

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

^{*}Please refer to second page for more specific output power information

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PSM1000-216 Characteristics

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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

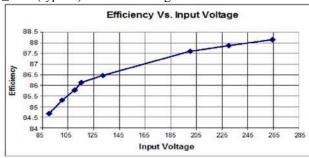
Output:

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
T 7 14	D.	ENIC1000 4 11	

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

