WWW.PHIHONG.COM



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	Min. Max. Load		Load	Max
Model	Voltage	Load	≤100VAC IN	≥115VAC IN	Power
PSM1000-216	56V (Main)	0A	17.8A	19.65A	1100337*
	12V (Stand-by)	0A	0.5A		1100W*

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

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.

PSM1000-216 Characteristics

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

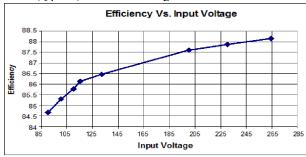
Output:

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

WWW.PHIHONG.COM

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 1.	ъ.	EDIC1000 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

