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

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

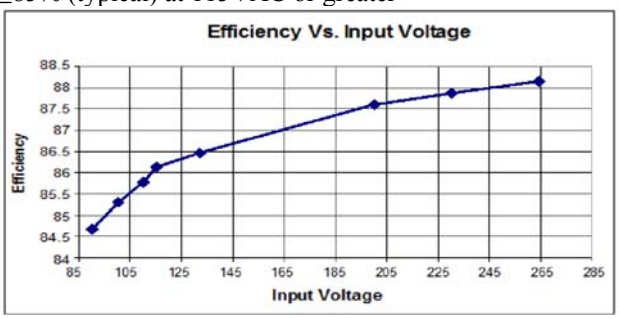
Inrush Current
35A maximum at 115VAC
70A maximum at 230VAC

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

Dimension Diagram Unit: mm (inch) **WWW.PHIHONG.COM**