



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

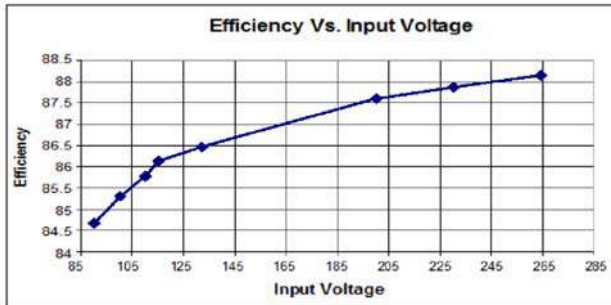
Inrush Current
35A maximum at 115VAC
70A maximum at 230VAC

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

