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160 Watt Low Cost Open Frame Power Supply PSA160U 1U Switching Power Supply for IT Solutions





Features

- 2" x 4" footprint
- Class B EMI

Applications

- IT Equipment
- Cable TV

Safety Approvals

• CE

Mechanical Characteristics (1)

- Length: 101.6mm (4in)
- Width: 50.8mm (2in)

- Fits 1U height requirements
- OCP, OVP and Short Circuit Protection
- Networking Equipment
- Multimedia Equipment
- cUL/UL
- Height: 34.5mm (1.36in)
- Weight: 184-195g (6.49-6.88oz)

Output Specifications

| Model | DC Output | Load | | Ripple | Regulation | | Max |
|--------------|-----------|------|----------|-----------------|------------|------|-----------|
| | Voltage | Min. | Max. (2) | P-P (max.) | Line | Load | Power (3) |
| PSA160-210-R | 12V | 50mA | 13.34A | 200mV | ±5% | | 159.6W |
| | 12V-fan | 50mA | 0.4A | | +30% | -20% | 4.8W |
| PSA160-212-R | 24V | 50mA | 6.67A | 270mV | ±5% | | 160.1W |
| | 12V-fan | 50mA | 0.4A | 270111 v | +30% | -20% | 4.8W |
| PSA160-218-R | 48V | 50mA | 3.34A | 400mV | ±5% | | 160.3W |
| | 12V-fan | 50mA | 0.4A | 400mV | +30% | -20% | 4.8W |
| PSA160-216-R | 56V | 50mA | 2.86A | 480mV | ±5 | % | 160.2W |
| | 12V-fan | 50mA | 0.4A | | +30% | -20% | 4.8W |

Notes (1) – 12V model has a weight of 184g, while all other models weigh 195g

Notes (2) – CFM forced air required, load drops to 56.3% of maximum without fan

Notes (3) – CFM forced air required for full power – 90W without fan

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PSA160 Characteristics

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INPUT:

AC Input Range

90 to 264VAC

AC Input Rating

100 to 240VAC

AC Input Frequency

47-63Hz

AC Input Current

2.2A (RMS) maximum at 115VAC 1.2A (RMS) maximum at 230VAC

AC Inrush Current

40A maximum at 115VAC 70A maximum at 230VAC

Leakage Current

1mA maximum

OUTPUT:

Output Power

160W with fan 90W without fan 4.8W – Fan output

Efficiency (at full power)

86-88% at 115VAC 88-90% at 230VAC

ENVIRONMENTAL:

Operating temperature -20°C to 70°C Storage Temperature -40°C to 85°C Humidity 20 to 90% RH

Cooling

12.6 CFM for full power w/ fan - 160W, 100% load at maximum 45°C w/o fan - 90W, 56.3% load with 35°C

EMC

EN55022 Class B

EMI

EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6

EN61000-4-100 EN61000-4-11

EN61000-3-2 Class D

EN61000-3-3

Dielectric Withstand (HI-POT) Test

Primary to Secondary: 3000VAC for 1 minute Primary to Ground: 1500VAC for 1 minute

Insulation Resistance:

Primary to Secondary: >7M ohm 500VDC

Over-Voltage Protection

135% maximum

Over Current Protection

105~150%, Auto recovery

Short Circuit Protection

Output can be shorted permanently without damage

AC Input Connector

3 Pin 3.96mm, PIN 2 N.C.

DC Output Connector

8 Pin 3.96mm

Fan Output Connector

2 Pin 2.00mm

