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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** <sup>(1)</sup>

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

- Fits 1U height requirements
- OCP, OVP and Short Circuit Protection
- Networking Equipment
- Multimedia Equipment

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- Height: 34.5mm (1.36in)
- Weight: 184-195g (6.49-6.88oz)

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Model	DC Output	Lo	ad	Ripple	Regulation	Max
	Voltage	Min.	Max. <sup>(2)</sup>	P-P (max.)	Line Load	Power <sup>(3)</sup>
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	$\pm 5\%$	160.1W
	12V-fan	50mA	0.4A		+30% -20%	4.8W
PSA160-218-R	48V	50mA	3.34A	400mV	±5%	160.3W
	12V-fan	50mA	0.4A		+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

**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 Storage Temperature Humidity -20°C to 70°C -40°C to 85°C 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

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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

## Dimension Diagram Unit:mm

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