



**38W Universal Input, Dual Output Adapter
PSA45U-201 Switching Power Supply**



Features

- Universal Input from 90-264V AC
- Built-in EMI Filter-Class B
- Overvoltage and Short Circuit Protection
- Compact Size

Applications

- Microcomputers
- Desktop Peripherals
- Instruments
- Test Equipment

Safety Approvals

- cUL/UL
- CE
- TUV

Mechanical Characteristics

- Length: 140mm (5.51in)
- Width: 63mm (2.48in)
- Height: 40mm (1.58in)
- Weight: 0.38kg (13.44oz)

Output Specifications

Model	DC Output Voltage	Load		Ripple (1) P-P (max.)	Regulation	
		Min.	Max.		Line	Load
PSA45U-201	+5V	0.3A	4.0A	50mV	±1%	±5%
	+12V	0.2A	1.5A	120mV	±1%	±5%

(1) Measured by using a 12 inch twisted pair terminated with a 10uF capacitor and a 0.1uF ceramic in parallel, at 38W.

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Input:

AC Input Voltage Rating

100 to 240V AC

AC Input Voltage Range

90 to 264V AC

AC Input Frequency

47 to 63Hz

Input Current

1.2A (RMS) 120V AC at maximum load
0.6A (RMS) 240V AC at maximum load

Leakage Current

3.5mA maximum

Inrush Current

50A maximum for 120V AC at maximum load
100A maximum for 240V AC at maximum load
(cold start at ambient 25°C)

Output:

Output Power

38W maximum

Efficiency

70% typical at maximum load and 120V AC

Hold-Up Time

12mS minimum at maximum load and 120V AC

Environmental:

Temperature

Operation	0 to +40°C
Non-operation	-25 to +70°C
Humidity	5 to 80%

Emissions

EN55022 Class B
FCC Class B
VCCI Class B

Immunity

IEC61000-4-2
IEC61000-4-3
IEC61000-4-4
IEC61000-4-5
IEC61000-4-6
IEC61000-4-8
IEC61000-4-11
EN61000-3-2

Over-Voltage Protection

By Zener Clamping, adapter will shut off.

Over-Current Protection

Outputs equipped with short circuit protection – auto restart

Short-Circuit Protection

Output can be shorted permanently without damage

Immunity

EN61000-4-2	Level (ESD)
EN61000-4-5	Level (Surge)

Dielectric Withstand (Hi-pot) Test

Primary to Secondary: 1500V AC for 1 min., 10mA

Input Connector

IEC320 3 Pin

Output Connector

9.5mm x 13.3mm

Output Pins

- 1 Ground
- 2 Ground
- 3 +5V
- 4 NC
- 5 +12V

Dimension Diagram Unit: mm (inch)

