



**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)**

