# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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#### WWW.PHIHONG.COM



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



Overvoltage and Short Circuit Protection

#### **Features**

- Universal Input from 90-264V AC
- Built-in EMI Filter-Class B

#### Applications

- Microcomputers
- Desktop Peripherals

#### **Safety Approvals**

- cUL/UL
- CE

#### **Mechanical Characteristics**

- Length: 140mm (5.51in)
- Width: 63mm (2.48in)

#### **Output Specifications**

Model	DC Output	Load		Ripple (1)	Regulation	
	Voltage	Min.	Max.	P-P (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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• TUV

Height: 40mm (1.58in)

Weight: 0.38kg (13.44oz)

**Test Equipment** 

Compact Size

Instruments

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#### **PSA45U Characteristics**

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  $25^{\circ}$ C)

#### **Output: Output Power** 38W maximum

Efficiency 70% typical at maximum load and 120V AC

#### **Hold-Up** Time

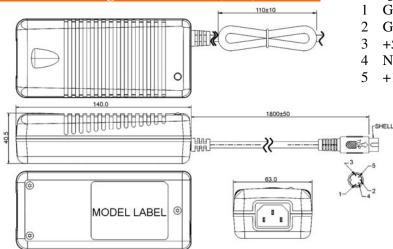
12mS minimum at maximum load and 120V AC

#### **Environmental:**

Temperature Operation Non-operation Humidity

0 to  $+40^{\circ}$ C -25 to +70°C 5 to 80%

#### **Dimension Diagram Unit: mm (inch)**



#### 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**

- Ground
- Ground
- +5V
- NC
- +12V

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