



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!



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## 120 Watt Universal 3-Wire Input Adapter PSA120U-V Adapter Series meets EISA and Ecodesign Requirements



### Features

- EISA Compliant
- Compliant with Ecodesign ErP Directive 2009/125/EC level 2 annex 1b
- Non-vented/Spill-proof Case
- Level V Efficiency Compliant
- Class B EMI

### Applications

- Networking
- Peripherals
- Industrial
- Test and Measurement

### Safety Approvals

- cUL/UL
- CE

### Mechanical Characteristics

- Length: 174mm (6.85in)
- Width: 77mm (3.03in)
- Height: 43mm (1.69in)
- Weight: 0.8Kg (1.76lbs)

### Output Specifications

Model	DC Output Voltage	Load		Efficiency Level <sup>2</sup>
		Min. <sup>1</sup>	Max.	
PSA120U-120V	12V	0A	10A	
PSA120U-240V	24V	0A	5.0A	
PSA120U-480V	48V	0A	2.5A	
PSA120U-560V	56V	0A	2.14A	

1 Dynamic load from 0.1A to full load.

2 See more detail on the second page

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**Input:****AC Input Voltage Rating**

100 to 240VAC

**AC Input Voltage Range**

90 to 264VAC

**AC Input Frequency**

47 to 63Hz

**Input Current**

2.5A at 100VAC

1.5A at 240VAC

**Leakage Current**

3.5mA maximum at 254VAC and 50Hz

**Inrush Current**

65A at 120VAC

130A at 240VAC

(Cold Start at ambient 25°C)

**Input Power Saving**

&lt;0.5W at no load

**OUTPUT:****Efficiency Level**

Level V Compliant

87-90% minimum average efficiency

**Over-Voltage Protection**

Output is protected from over voltage fault at all conditions including open-loop

**Over-Power Protection**

Auto-Reset

**Ripple (P-P Max)**

12V 150mV

24V 240mV

48V 480mV

56V 560mV

(Measured using 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel)

**Regulation (Line & Load)**

±5%

**Short-Circuit Protection**

Output will withstand a short circuit across the outputs with auto-restart function. Output can be shorted without damage.

**ENVIRONMENTAL****Temperature**

Operation 0 to +40°C

Non-operation -20 to +70°C

Humidity 20 to 80%

**Emissions**

FCC Class B

EN55022 Class B

CISPR22 Class B

**Immunity**

ESD EN61000-4-2

RS EN61000-4-3

EFT EN61000-4-4

Surge EN61000-4-5

CS EN61000-4-6

Voltage Dips EN61000-4-11

**Dielectric Withstand (Hi-Pot) Test**

Primary to Secondary: 3000V AC for 1 min., 10mA

**MTBF**

≥100K Hours when operated at 75% continuous load and ambient 25°C

**DC Output Connector (12V model)**

Molex P/N: 39-00-0059

Connecting Molex P/N: 39-01-3065

**Pin** Pin 1: +12V**Connections:** Pin 2: +12V

Pin 3: +12V

Pin 4: GND

Pin 5: GND

Pin 6: GND

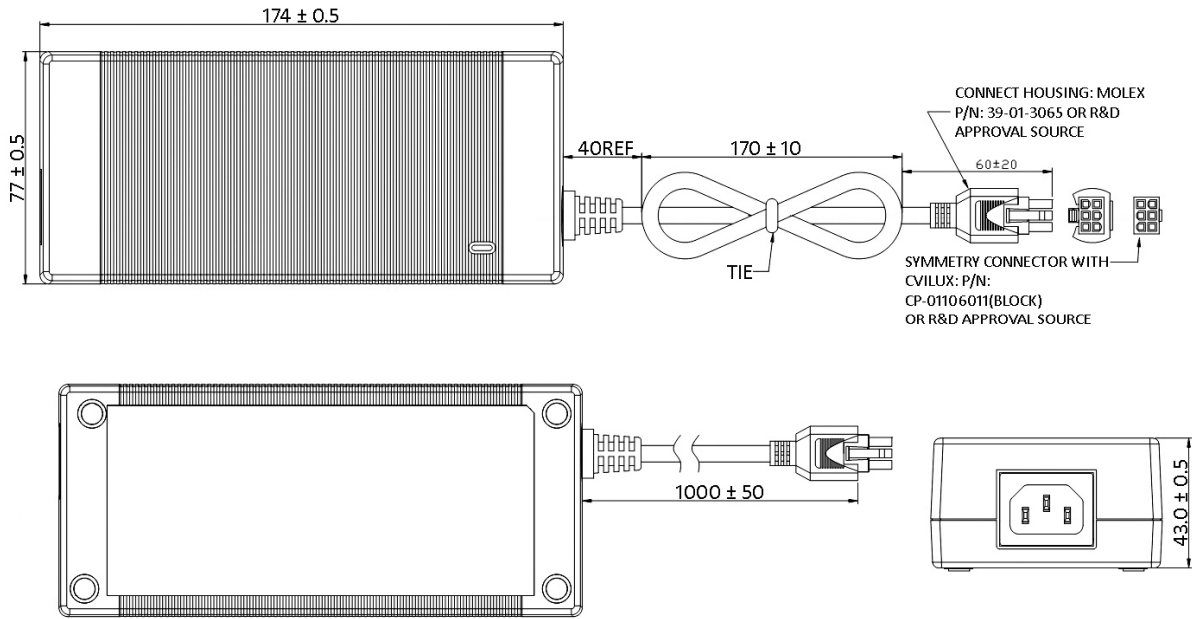
**DC Output Connector (24V, 48V and 56V models)**

2.5 x 5.5mm Center Positive Barrel Standard

**Input Connector**

3-Wire IEC320-C14

PSA120U-120-R



PSA120U-240-R, PSA120U-480-R, PSA120U-560-R

