



**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

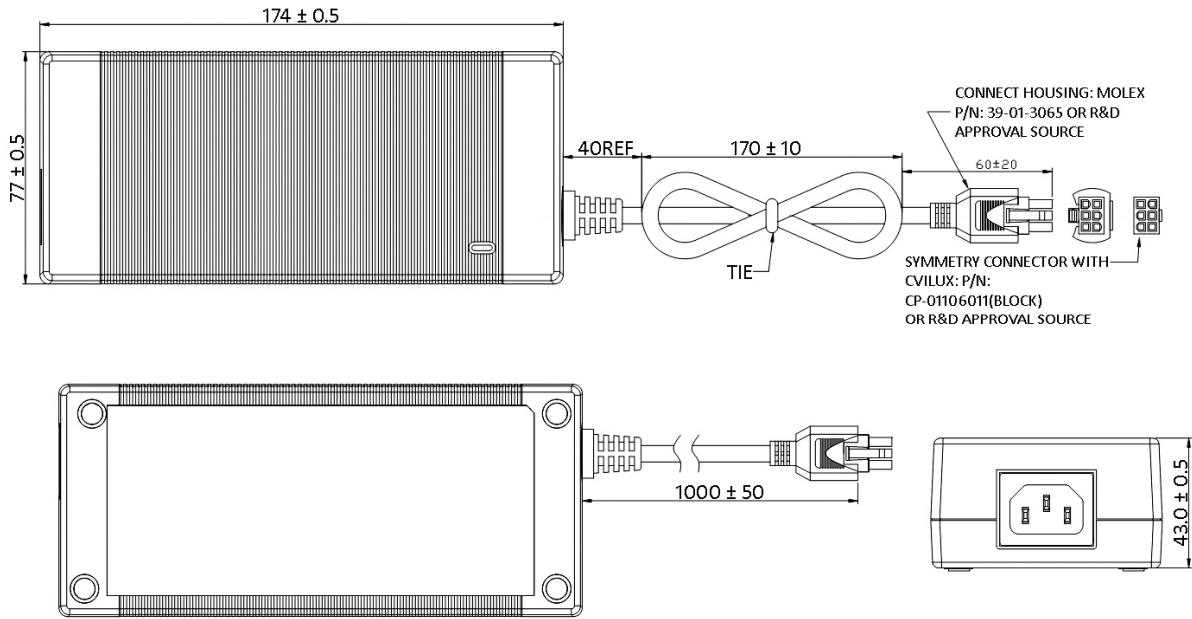
**DC Output Connector (24V, 48V and 56V models)**

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

