



## 120 Watt Universal 3-Wire Input Adapter



### Features

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

### Applications

- Networking
- Peripherals
- Industrial
- Test and Measurement

### Safety Approvals

- UL 60950-1
- CSA 22.2 60950-1
- CE
- CB

### Mechanical Characteristics

- Length: 152mm (5.98in)
- Width: 73mm (2.88in)
- Height: 37mm (1.45in)
- Weight: 800g (1.76lbs)

### Output Specifications

| Model                        | DC Output Voltage | Load |       |       | Ripple <sup>2</sup> P-P (max.) | Regulation Line & Load |
|------------------------------|-------------------|------|-------|-------|--------------------------------|------------------------|
|                              |                   | Min. | Rated | Peak  |                                |                        |
| PSA120U-120L6-R <sup>1</sup> | 12V               | 0A   | 9A    | 11A   | 200mV                          | ±5%                    |
| PSA120U-240L6-R              | 24V               | 0A   | 5A    | 6A    | 380mV                          | ±5%                    |
| PSA120U-480L6-R              | 48V               | 0A   | 2.5A  | 3A    | 480mV                          | ±5%                    |
| PSA120U-540L6-R              | 54V               | 0A   | 2.22A | 2.66A | 500mV                          | ±5%                    |
| PSA120U-560L6-R              | 56V               | 0A   | 2.14A | 2.56A | 560mV                          | ±5%                    |

(1) 12V model is 108W

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

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

115 to 230VAC

**AC Input Voltage Range**

90 to 264VAC

**AC Input Frequency**

47 to 63Hz

**Input Current**

1.5A at 115VAC

0.75A at 230VAC

**Leakage Current**

&lt;250uA at 250VAC/50Hz

**Inrush Current**

&lt;220A at 115VAC

(Cold Start at ambient 25°C)

**Input Power Saving**

≤0.15W at 230VAC input

**Power Factor**

>0.95 at 115VAC and >0.9 at 230VAC for both 50/60Hz frequency range at rated load output condition.

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

DOE Level VI

**Over-Voltage Protection**

&lt;70V. Latch –off mode. Auto-recover

**Over-Load, Short-Circuit &****Over-Temperature Protections**

Auto-recover

**ENVIRONMENTAL****Temperature**

Operation 0°C to + 40°C

Non-operation -20°C to ~ +80°C

Humidity 10°C to 90%

**Emissions**

Complies with FCC Class B

Complies with EN55032 Class B

EN61000-3-2 Class D

EN61000-3-3

**Immunity**

ESD EN61000-4-2

RS EN61000-4-3

EFT EN61000-4-4

Surge EN61000-4-5

CS EN61000-4-6

Power Frequency Magnetic Field EN61000-4-8

Voltage Dips EN61000-4-11

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

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

**DC Output Connector (12V)**

4 pin Mini DIN

**DC Plug Pin assignment(12V)**

Pin 2,4 (+V)

Pin 1,3 GND (-)

**DC Output Connector(24V,48V, 54V 56V)**

2.5mm x 5.5mm x 10mm Center Positive

Barrel Standard

**DC Plug pin assignment(24V,48V, 54V 56V)**

Inner (+V)

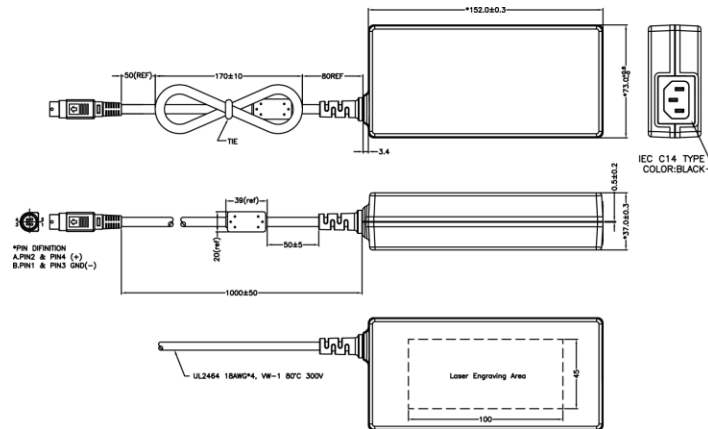
Outer GND (-)

**Input Connector**

3-Wire IEC320-C14

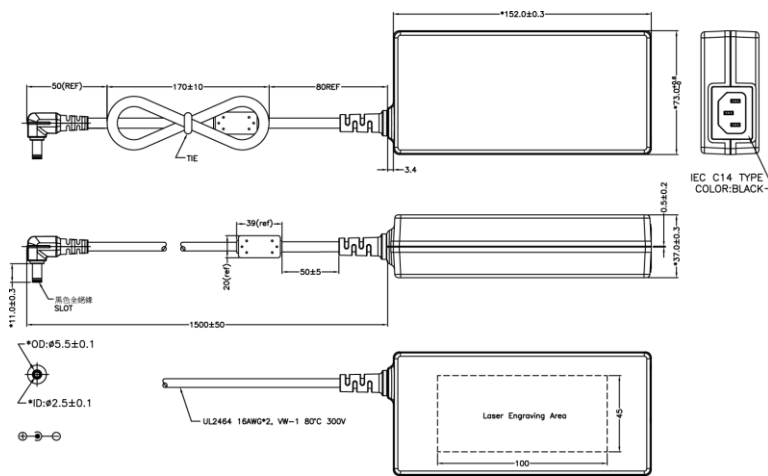
## PSA120U-120L6 -R

Dimension Diagram Unit: mm



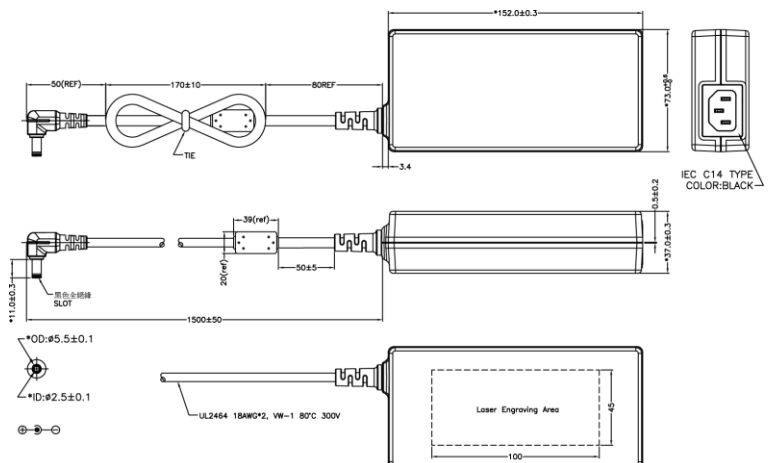
## PSA120U-240L6 -R

Dimension Diagram Unit: mm



## PSA120U-480L6-R, 540L6-R, 560L6 -R

Dimension Diagram Unit: mm



**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

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NOTE: This model has/The models in this products series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.