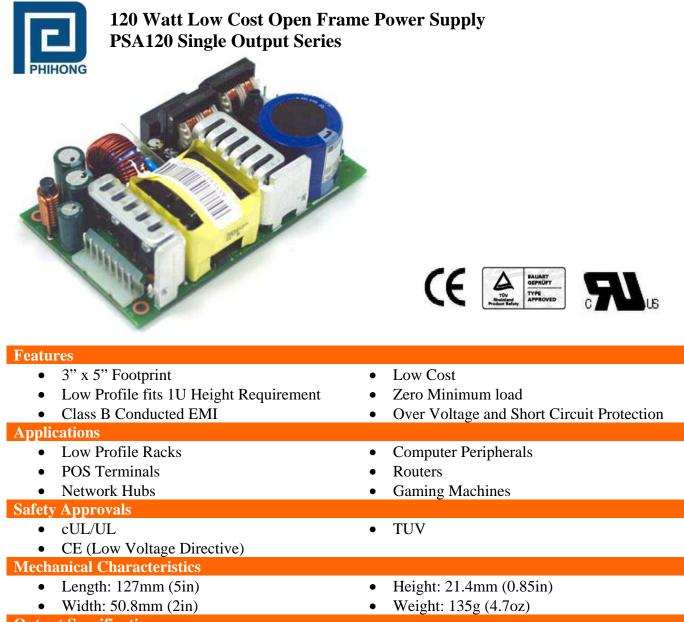
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**Output Specifications** 

Model	DC Output	Load		Ripple <sup>(2)</sup>	Regulation		Max
Iviouei	Voltage	Min.	Max. <sup>(1)</sup>	P-P (max.)	Line	Load	Power <sup>(3)</sup>
PSA120-050	+5V	0A	15A	100mV	±1%	±4%	75W
PSA120-120	+12V	0A	10A	120mV	±1%	±2%	120W
PSA120-240	+24V	0A	5A	240mV	±1%	±2%	120W

(1) 30CFM forced air required. With convection cooling load is 9A for 5V, 6.67A for 12V, and 3.33A for 24V models.

(2) Measure by using a 12 inch twisted pair terminal with a 10uF capacitor and 0.1uF ceramic capacitor in parallel.

(3) 30CFM forced air required. With convection cooling power is 45W for 5V, and 80W for 12V and 24V models.

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

#### **PSA120** 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**

4.0A (RMS) at maximum load and 115V AC 2.0A (RMS) at maximum load and 230V AC

#### Leakage Current

3.5mA maximum at 264V AC

#### **Inrush Current**

30A for 115V AC at maximum load 60A for 230V AC at maximum load (Cold start at ambient 25°C)

#### **Hold-up** Time

10mS minimum at maximum load and 115V AC

### **Output:**

#### Efficiency

70% minimum at max load and 115V AC for 5V 75% minimum at max load and 115V AC for 12V 78% minimum at max load and 115V AC for 24V

#### **Over-Voltage Protection**

>120%

#### **Over-Current Protection**

Over-current protection, auto-restart

#### **Short-Circuit Protection**

Output can be shorted permanently without damage

#### **Environmental:**

**Temperature** Operation Non-operation

0 to 50°C -25 to +85°C

#### Humidity

Operation

10 to 95% non-condensing

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**Emissions** Conducted: FCC Class B

EN55022 Class B Radiated: FCC Class A EN55022 Class A

#### Immunity

EN55024	1998
EN61000-4-2	Level 3
EN61000-4-3	Level 2
EN61000-4-4	Level 3
EN61000-4-5	Level 3
EN61000-4-6	Level 2
EN61000-4-11	
EN61000-3-2	Harmonic Class A
EN61000-3-3	Flicker

#### General:

#### **Insulation Resistance**

Input to Ground: 10M ohms minimum, 500V DC

#### **Dielectric Withstand (Hi-pot) Test**

Input to Output: 3000V AC for 1 minute, 10mA Input to Ground: 1500V AC for 1 minute, 10mA

#### **Switching Frequency**

 $42 KHz \pm 10\%$ 

MTBF (Full load, 30CFM and ambient 25°C) 150K hours minimum

#### AC Input Connector (Molex or Equivalent)

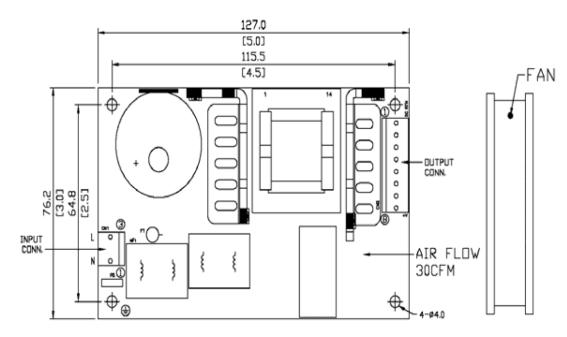
Input Header: Molex 09-65-2038 or equivalent Mating: Moles 09-50-1031 or equivalent

#### **DC Output Connector**

Output header: Molex 09-65-2088 or equivalent Mating: Molex 09-50-1081 or equivalent

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



INPUT CONN.

PIN

1

2

з

4

5

6

7

8

V+

PIN	DESC.	
1	NEUTRAL	
5	N.C.	
3	LIVE	

