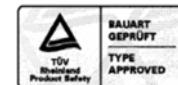




## 120 Watt Low Cost Open Frame Power Supply PSA120 Single Output Series



### Features

- 3" x 5" Footprint
- Low Profile fits 1U Height Requirement
- Class B Conducted EMI
- Low Cost
- Zero Minimum load
- Over Voltage and Short Circuit Protection

### Applications

- Low Profile Racks
- POS Terminals
- Network Hubs
- Computer Peripherals
- Routers
- Gaming Machines

### Safety Approvals

- cUL/UL
- CE (Low Voltage Directive)
- TUV

### Mechanical Characteristics

- Length: 127mm (5in)
- Width: 76.2mm (3in)
- Height: 31.5mm (1.24in)
- Weight: 386.7g (13.6oz)

### Output Specifications

Model	DC Output Voltage	Load		Ripple <sup>(2)</sup> P-P (max.)	Regulation		Max Power <sup>(3)</sup>
		Min.	Max. <sup>(1)</sup>		Line	Load	
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](http://www.phihong.com) for the most up-to-date specifications and contact information.

**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**

&gt;120%

**Over-Current Protection**

Over-current protection, auto-restart

**Short-Circuit Protection**

Output can be shorted permanently without damage

**Environmental:****Temperature**

Operation 0 to 50°C

Non-operation -25 to +85°C

**Humidity**

Operation 10 to 95% non-condensing

**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**

42KHz ±10%

**MTBF (Full load, 30CFM and ambient 25°C)**

150K hours minimum

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

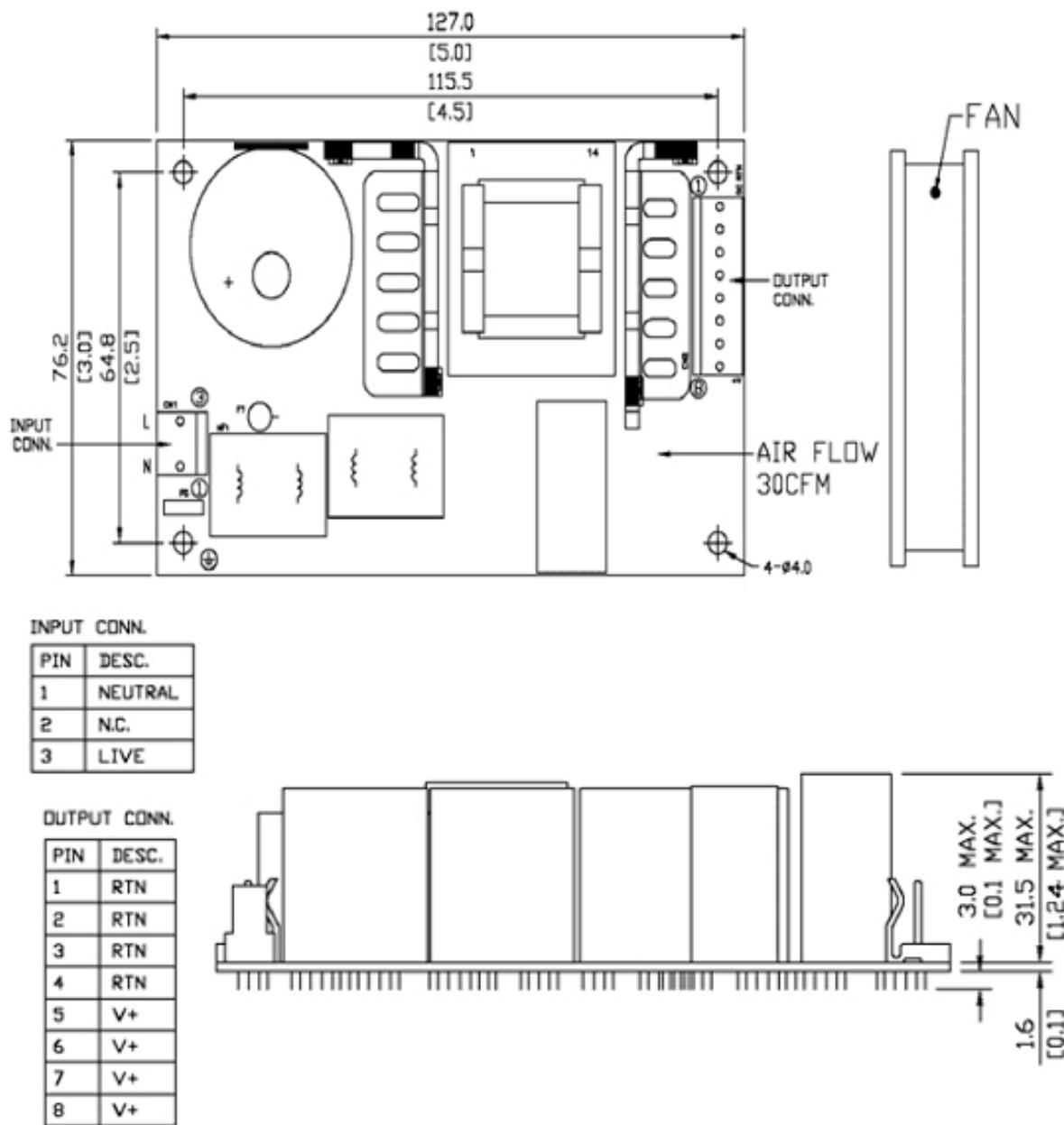
Input Header: Molex 09-65-2038 or equivalent

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





# Mouser Electronics

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