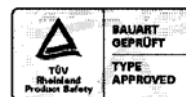
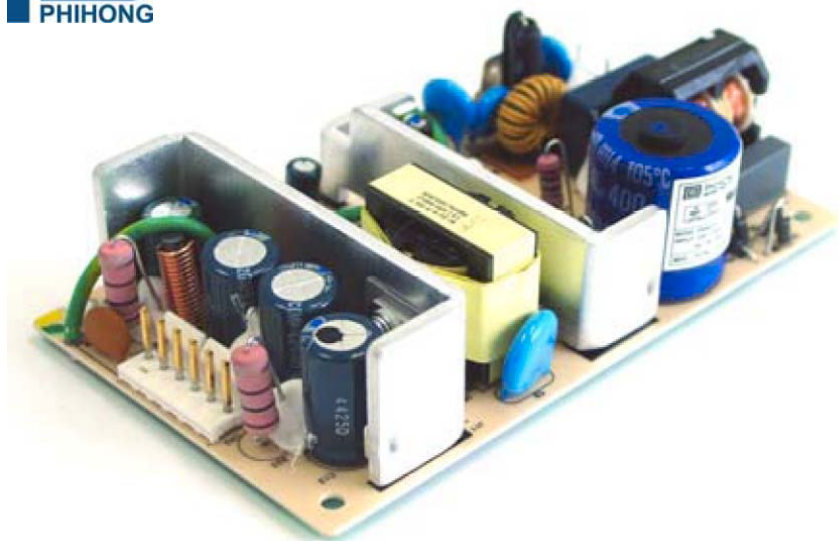




## 75 Watt Low Cost Open Frame Power Supply PSA075 Single Output Series



### Features

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

### Applications

- Tape/Disk Drive Systems
- POS Terminals
- Internet Servers
- Peripherals
- Routers
- Networking

### Safety Approvals

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

### Mechanical Characteristics

- Length: 127mm (5in)
- Width: 76.2mm (3in)
- Height: 33.1mm (1.3in)
- Weight: 220g (7.76oz)

### 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	
PSA075-050	+5V	0A	11A	50mV	±1%	±3%	55W
PSA075-120	+12V	0A	6.25A	120mV	±1%	±2%	75W
PSA075-240	+24V	0A	3.125	240mV	±1%	±2%	75W

(1) CFM forced air required; with convection cooling max load is 8A for 5V model, 5A for 12V, and 2.5A for 24V models.

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

(3) CFM forced air required; with convection cooling power is 40W for 5V model and 60W 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**  
90V AC to 264V AC

**AC Input Frequency**  
47 to 63Hz

**Input Current**

2.0A (RMS) at maximum load and 120V AC  
1.0A (RMS) at maximum load and 240V AC

**Leakage Current**

<3.5mA maximum at 264V AC, 60Hz

**Inrush Current**

40A for 115V AC at maximum load  
80A for 230V AC at maximum load  
(Cold start at ambient 25°C)

**Hold-up Time**

10mS minimum at maximum load, 115V AC

**Output:**

**Efficiency at max load, 120V AC**  
5V – 65% / 12V – 70% / 24V – 75%

**Over-Voltage Protection**

125% maximum

**Over-Current Protection**

Output equipped with Short-Circuit 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 90% non-condensing

**Emissions**

Conducted - FCC class B, EN55022 Class B  
Radiated – FCC class B, EN55022 Class B

**Immunity**

ESD: EN61000-4-2 Level 3  
RS: EN61000-4-3 Level 2  
EFT/Burst: EN61000-4-4 Level 2  
Surge: EN61000-4-5 Level 3  
CS: EN61000-4-6 Level 2  
Voltage Dips: EN61000-4-11  
Harmonic: EN61000-3-2 Class A  
Flicker: EN61000-3-3

**General:**

**Insulation Resistance**

Primary to Secondary: 10M ohm 500V DC

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

Input to Ground: 1500V AC for 3 seconds, 10mA

**MTBF**

150K hours minimum at full load, 115VAC 60Hz  
(measured at ambient 25°C)

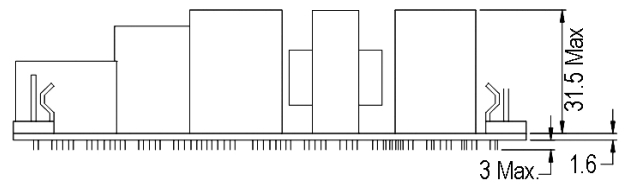
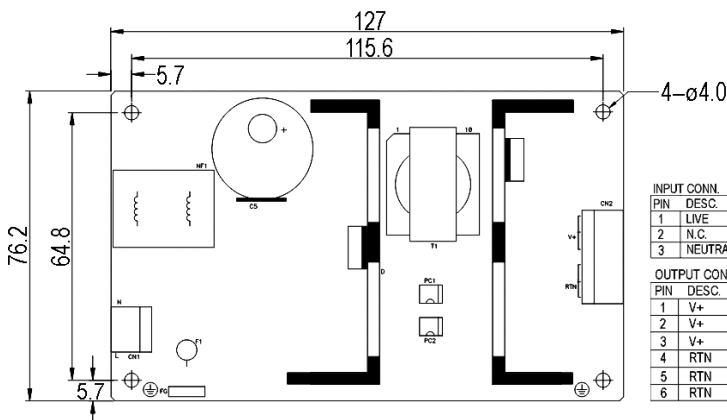
**Input Connector (Molex or Equivalent)**

Input header: Molex 09-65-2038 or equivalent (Pin 2 N.C.)  
Mating: Molex 09-50-1031 or equivalent

**Output Connector**

Output header: Molex 09-65-2068 or equivalent  
Mating: Molex 09-50-1061 or equivalent

**Dimension Diagram Unit: mm**



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