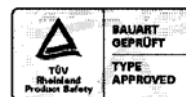
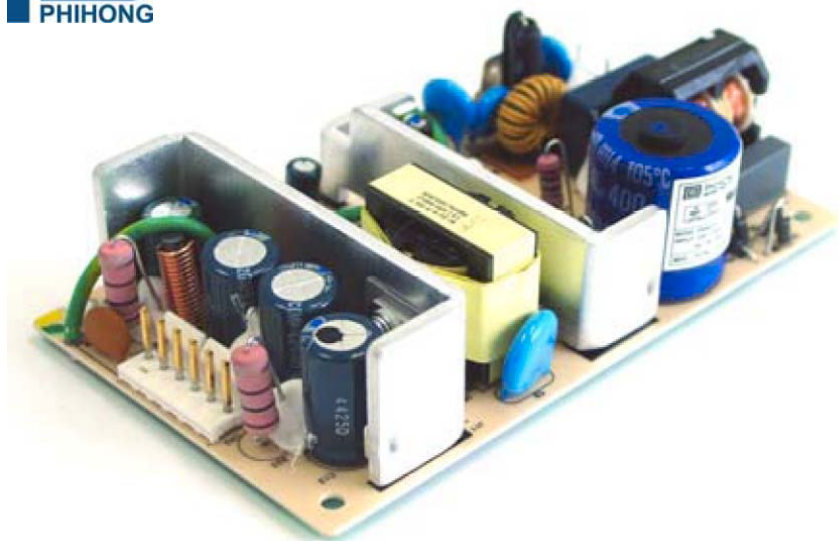




## 75 Watt Low Cost Open Frame Power Supply PSA075 Single Output Series



### 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.

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**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**

