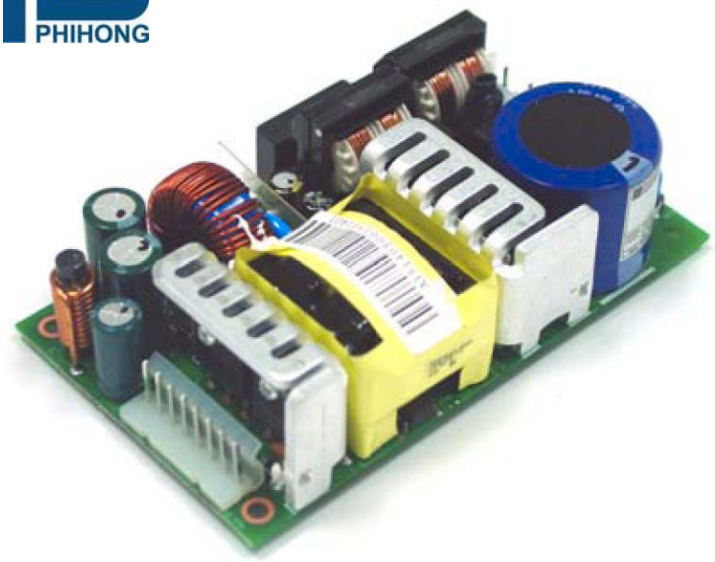
120 Watt Low Cost Open Frame Power Supply
PSA120 Single Output Series



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: 50.8mm (2in)
- Height: 21.4mm (0.85in)
- Weight: 135g (4.7oz)

Output Specifications

Model	DC Output Voltage	Load		Ripple (2) P-P (max.)	Regulation		Max Power(3)
		Min.	Max. (1)		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 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
>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

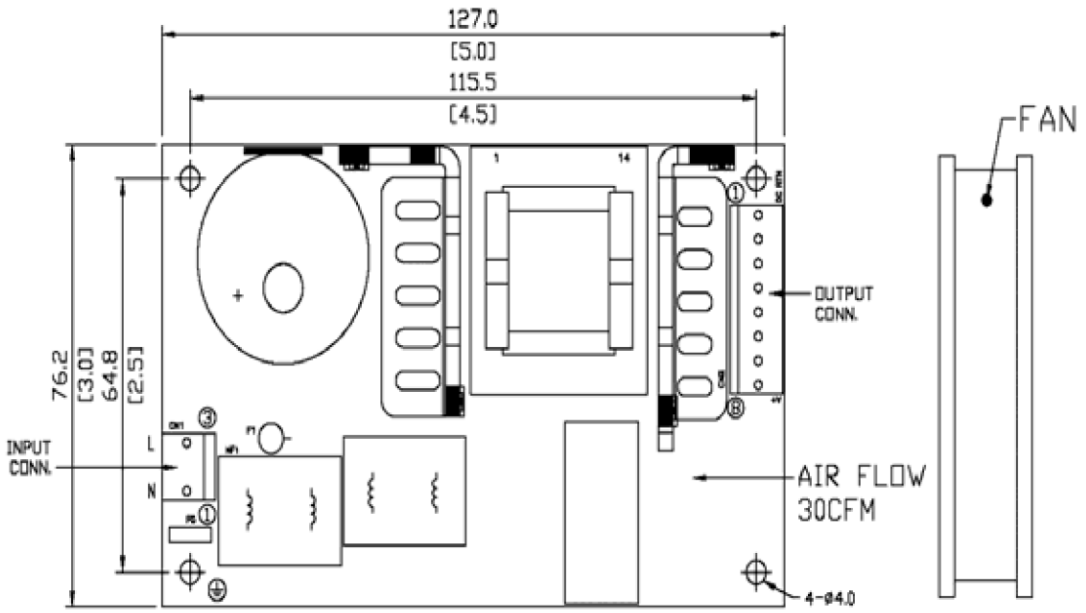
Dielectric Withstand (Hi-pot) Test
Input to Output: 3000V AC for 1 minute, 10mA
Input to Ground: 1500V AC for 1 minute, 10mA

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



INPUT CONN.

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

OUTPUT CONN.

PIN	DESC.
1	RTN
2	RTN
3	RTN
4	RTN
5	V+
6	V+
7	V+
8	V+

