



## 80W\* Universal Input Series PSA60 Series Switching power Supply



\*80W rated at 20CFM air flow cooling.

### Features

- High efficiency
- Over voltage protection
- Built-in EMI filter
- Short circuit protection

### Applications

- Disk/Tape drive systems
- Peripheral equipment
- Microprocessor systems
- Mixed logic applications

### Safety Approvals

- cUL 1950
- CSA 22.2 234
- TUV EN60950
- CE (Low Voltage Directive)

### Mechanical Characteristics

- Length: 127mm (5in)
- Width: 76.2mm (3in)
- Height: 40.0mm (1.58in)
- Weight: 360g (4.7oz)

### Output Specifications

Model	DC Output Voltage	Load			Ripple P-P	Total Regulation	Output Pins
		Min.	Max.	At 20CFM			
PSA60-105	+5V	0.0A	10A	10A	100mV	±2%	1,2,3
PSA60-112	+12V	0.0A	5.0A	6.6A	120mV	±2%	1,2,3
PSA60-115	+15V	0.0A	4.0A	5.3A	150mV	±2%	1,2,3
PSA60-124	+24V	0.0A	2.5A	3.3A	240mV	±2%	1,2,3
PSA60-148	+48V	0.0A	1.2A	1.4A	300mV	±2%	1,2,3
PSA60-202	+5V (V1)	1.0A	6.0A	8.0A	50mV	±2%	2,3
	+24V (V2)	0.1A	1.3A	1.8A	240mV	±5%	1
PSA60-203	+5V (V1)	1.0A	4.0A	6.0A	50mV	±2%	2,3
	+12V (V2)	0.3A	3.5A	4.5A	120mV	±5%	1
PSA60-301	+5V (V1)	1.0A	6.0A	8.0A	50mV	±2%	2,3
	+12V (V2)	0.3A	2.2A	3.0A	120mV	±5%	1
	-12V (V3)	0.0A	0.3A	0.5A	120mV	±5%	6
PSA60-302	+5V (V1)	1.0A	6.0A	8.0A	50mV	±2%	2,3
	+12V (V2)	0.1A	1.2A	1.8A	120mV	±5%	1
	-12V (V3)	0.1A	1.2A	1.8A	120mV	±5%	6
PSA60-303	+5V (V1)	1.0A	6.0A	8.0A	50mV	±2%	2,3
	+12V (V2)	0.3A	2.2A	3.0A	120mV	±5%	1
	-5V (V3)	0.0A	0.5A	0.5A	50mV	±5%	6
PSA60-304	+5V (V1)	1.0A	6.0A	8.0A	50mV	±2%	2,3
	+15V (V2)	0.3A	1.5A	2.0A	150mV	+10%/-3%	1
	-15V (V3)	0.0A	0.5A	0.5A	150mV	±5%	6

\* Total output power must not exceed 60W at convection cooling and 80W at 20CFM air flow cooling.

\* Peak output current lasting less than 30 seconds with duty cycle less than 10%. During peak loading, peak total power must not exceed 80W.

\* Ripple & noise is measured at 20MHz bandwidth limit by use a 12 inch twisted wire terminated with a 10uF capacitor in parallel 0.1uF ceramic capacitor. 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 260V AC

**AC Input Frequency**

47 to 63Hz

**Input Current**

2.0A maximum

**Leakage Current**

0.75mA maximum at 240V AC, 50Hz

**Inrush Current**

15A for 120V AC

30A for 240V AC

**Hold-up Time**

10mS at normal load and 120V AC

**Output:**

**Efficiency**

70% typical at normal load and 120V AC

**Over-Voltage Protection**

>120% maximum

**Over-Current Protection**

Short circuit protection – auto restart

**Environmental:**

**Temperature**

Operation 0 to 50°C

Non-operation -25 to +85°C

**Humidity**

Operation 5 to 95% non-condensing

**Emissions**

FCC Class B

VFG 243

**General:**

**Insulation Resistance**

Input to output: 7M ohm

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

Input to output 2200V DC for 1 minute, 10mA

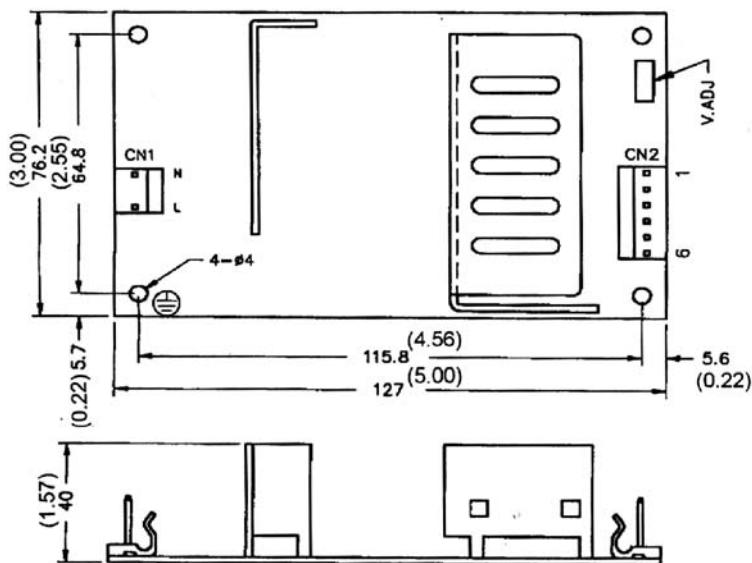
**Switching Frequency**

50KHz typical

**MTBF (Full load and ambient 25°C)**

50K Hrs

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



Output Connections:

CN2	Single	Multiple
Pins 1,2,3:	See Chart	See Chart
Pins 4,5:	Common return	Common return
Pins 6:	Common return	See Chart

CN1: Input: Molex 09-50-3031 or equivalent CN2: Molex 09-50-3061 or equivalent