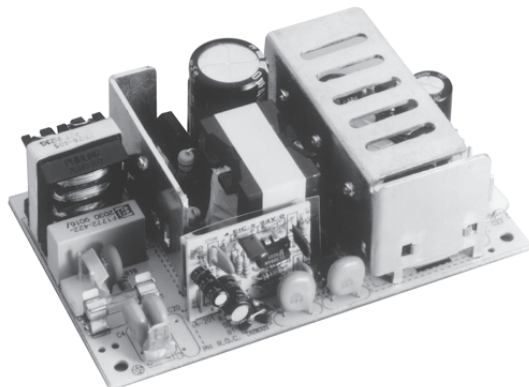




# 80W\* Universal Input Series PSA60 Series Switching Power Supply



\*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 Compliance

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

### Mechanical Characteristics

- Dimensions:
- Length: 127mm (5.0in)
  - Width: 76.2mm (3.0in)
  - Height: 40mm (1.58in)
  - Weight: 0.36kgs (0.79lbs)

### Output Specifications

Model	DC Output Voltage	Load			Ripple P-P	Total Regulation	Output Pins
		Min.	Max.	@20CFM			
PSA60-105	+5V	0.0A	10A	10A	50mV	±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	480mV	±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
PSA60-303	+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	±5%	1
	-15V (V31)	0.0A	0.5A	0.5A	150mV	±5%	6

(1) Total output power must not exceed 60W at convection cooling and 80W at 20CFM air flow cooling.

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

(3) Ripple & noise is measured at 20MHz bandwidth limit by use a 12 inch twisted wire terminated with a 10µf capacitor in parallel 0.1µf ceramic capacitor.

Phihong is not responsible for any errors or changes. Please contact the factory and visit [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications.

**AC input Voltage**  
90VAC-264VAC

**AC Frequency**  
47 to 63Hz

**AC Input Current**  
1.4A(rms) for 115VAC  
0.7A(rms) for 230VAC

**Efficiency**  
70% typical at full load

**Hold-up Time**  
12msec. at full load,  
115VAC input

**Overvoltage Protection**  
>120% on main output

**Overcurrent Protection**  
All outputs equipped with automatic  
recovery current limiting circuit

**Operation Temperature**  
0 to +50°C

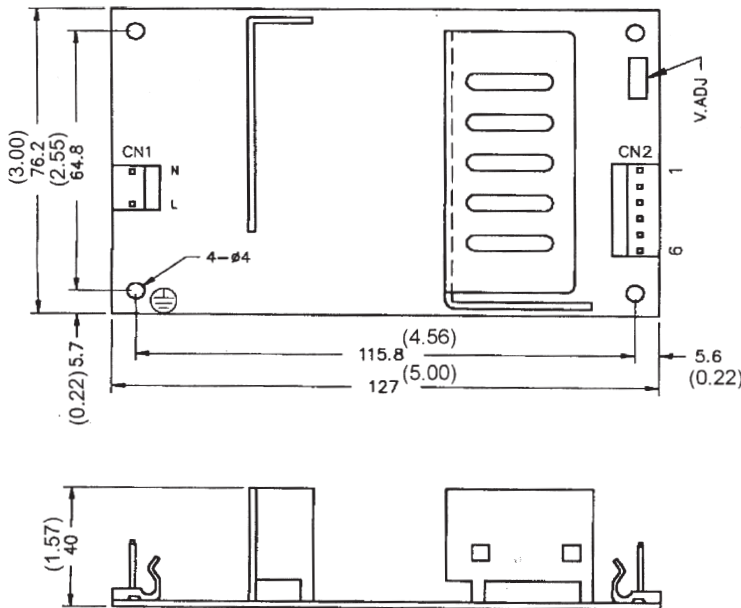
**Storage Temperature**  
-25°C to +85°C

**MTBF**  
Calculated  
Greater than 110,000 hours,  
full load, 25°C  
(MIL-HDBK-217F)

**Emissions**  
FCC Class B  
EN 55022 B

**Immunity**  
EN 50082-1: 1997  
61000-4-2, Level 3  
61000-4-3, Level 2  
61000-4-4, Level 2  
61000-4-5, Level 3  
61000-4-6, Level 2  
61000-4-11

**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