



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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.

\* Minimum order quantity of 500 pieces is required when ordering this series

\* 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.

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**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

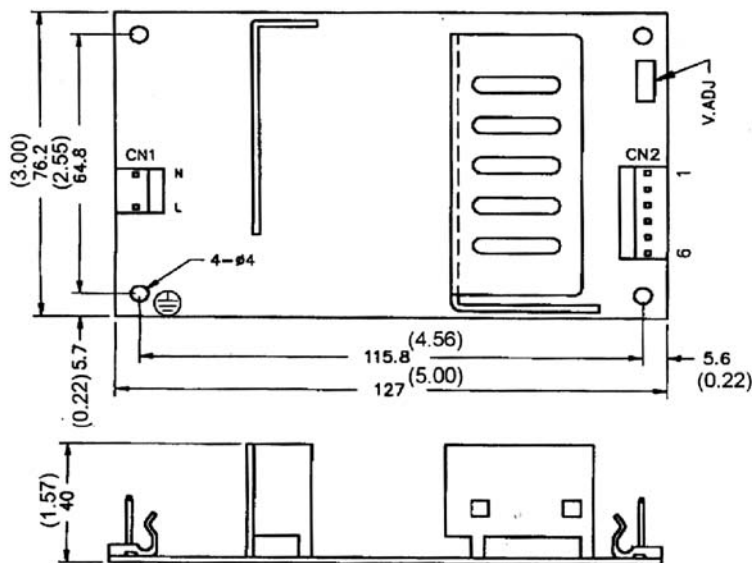
**Switching Frequency**

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