



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 ⁽²⁾	DC Output Voltage	Load ⁽¹⁾			Ripple P-P ⁽³⁾	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.

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

(2) Minimum order quantity of 1000 pieces is required when ordering this series

(3) 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

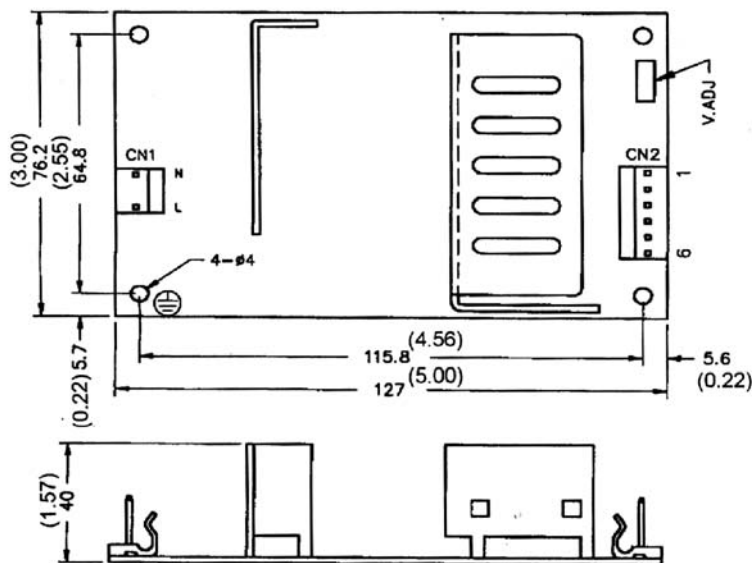
Switching Frequency

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