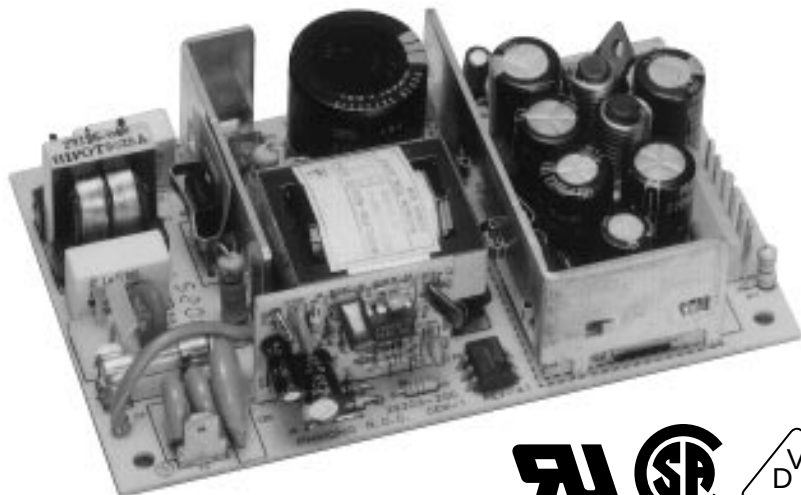


40W Universal Input Series

PSA-4031 Series Switching Power Supply



Features

- High efficiency
- Built-in EMI filter
- 100% Burn-in for 24hrs.
- Over voltage protection
- Short circuit protection
- UL/CSA/VDE approval

Applications

- Disk drive systems
- Peripheral equipment
- Test equipment
- Microprocessor based systems

Safety Compliance

- UL 1950
- CSA 22.2 1402C Level 3
- VDE 0806
- EN 60950

Mechanical Characteristics

Dimensions: • Length: 127mm (5.0in) • Height: 30mm (1.2in)
• Width: 76.2mm (3.0in) • Weight: 0.27kgs (0.6lbs)

Output Specifications

Model	DC Output Voltage		Load				Ripple P-P (2)	Total Tolerance
			Min.	Max.	@20CFM	Peak		
PSA-4005	+5V	V1	0.0A	6.0A	8.0A	8.0A	100mV	+2%
PSA-4012	+12V	V1	0.0A	3.0A	4.0A	4.0A	120mV	+2%
PSA-4015	+15V	V1	0.0A	2.5A	3.3A	3.3A	150mV	+5%
PSA-4024	+24V	V1	0.0A	1.5A	2.0A	2.0A	240mV	+2%
PSA-4031	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	+2%
	+12V	V2	0.2A	2.0A	2.0A	3.0A	120mV	+5%
	-12V	V3	0.0A	0.5A	0.5A	0.5A	120mV	+5%
PSA-4032	+5.1V	V1	0.5A	4.0A	6.0A	7.0A	50mV	+2%
	+12V	V2	0.0A	0.5A	0.5A	0.5A	120mV	+5%
	-12V	V3	0.0A	0.5A	0.5A	0.5A	120mV	+5%
PSA-4033	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	+2%
	+12V	V2	0.2A	2.0A	2.0A	3.0A	120mV	+5%
	-5V	V3	0.0A	0.5A	0.5A	0.5A	50mV	+5%
PSA-4034	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	+2%
	+15V	V2	0.2A	2.0A	2.0A	3.0A	150mV	+5%
	-15V	V3	0.0A	0.5A	0.5A	0.5A	150mV	+5%
PSA-4035	+5.1V	V1	0.5A	3.0A	5.0A	7.0A	50mV	+2%
	+24V	V2	0.3A	1.0A	1.0A	2.0A	240mV	+5%

- (1) Peak output current lasting less than 30 seconds with duty cycle less than 10%. During peak loading, peak total power must not exceed 60W.
- (2) Ripple & noise is measured at 20MHz bandwidth limit by using a 10 inch twisted wire terminated with a 10 μ f capacitor in parallel 0.1 μ f ceramic capacitor, it is also necessary to connect the primary and secondary ground holes together by jumper wire or by mounting screws to metal case under evaluation.
- (3) Total output power must not exceed 40W at convection cooling and 60W at 20CFM air flow condition.

ONOFF

ISO 9001 • BABT Facility Approvals



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40W Universal Input Series

PSA-4031 Series Switching Power Supply

Characteristics

AC Input Voltage

90VAC-264VAC

AC Frequency

47 to 63Hz

AC Input Current

1.0A(rms) for 115VAC
0.5A(rms) for 230VAC

DC Output

See Chart

Efficiency

70% typical at full load

Hold-up Time

16msec. at full load,
115VAC input

Overcurrent Protection

All outputs equipped with auto-
matic recovery current limiting
circuit

Overvoltage Protection

5.6V to 6.5V on main output

Operation Temperature

0 to +40°C full rated load

Storage Temperature

-25°C to +85°C

Temperature Coefficient

0.04% per °C

Insulation Resistance

50M ohm minimum

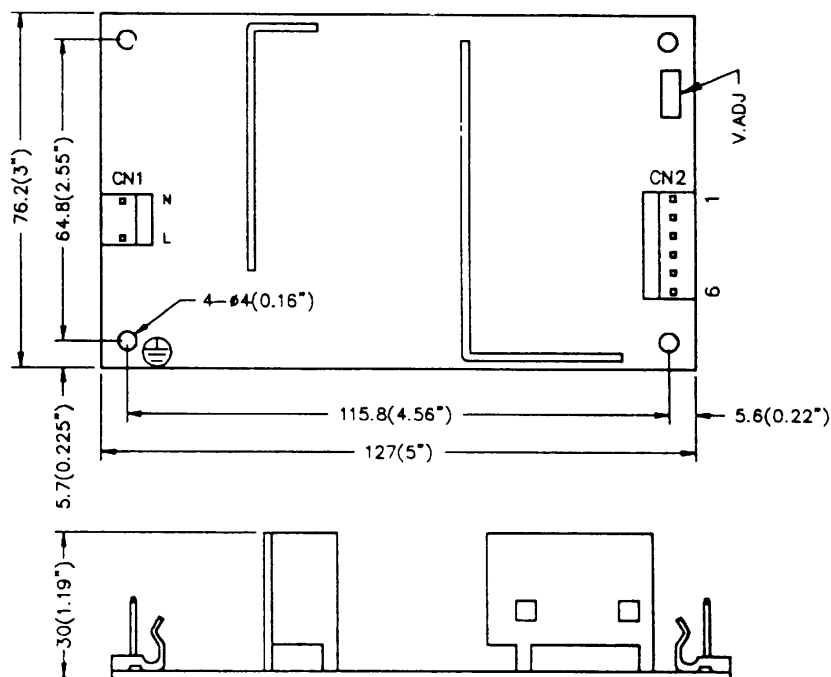
MTBF

Calculated
Greater than 100,000 hours,
full load, 25°C
(MIL-HDBK-217)

EMI

Meets conduction limits of
FCC class B rules
VDE 0871 class B

Dimension Diagram Unit: mm (inch)



Output Connections:	V1	V2	V3	RETURN
Single	Pins 1,2,3			Pins 4,5,6
Triple	Pins 2,3	Pin 1	Pin 6	Pins 4,5

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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