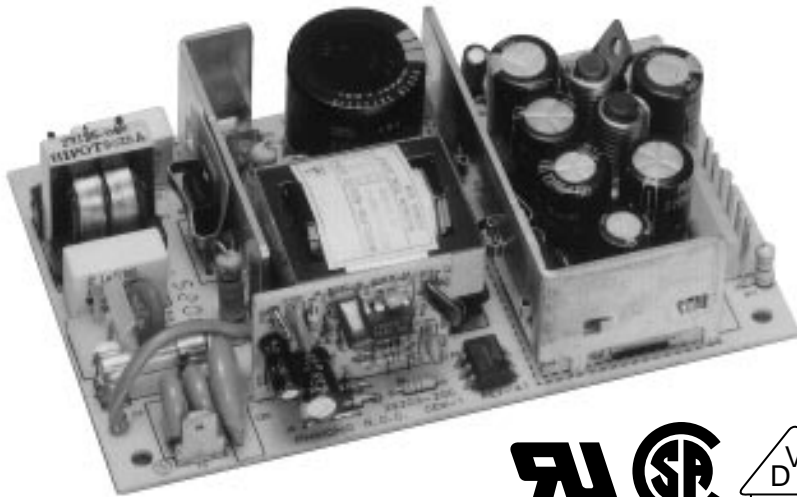


40W Universal Input Series

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)
 - Width: 76.2mm (3.0in)
 - Height: 30mm (1.2in)
 - 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 10µf capacitor in parallel 0.1µf 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**



ENTERPRISE CO., LTD.

16, Lane 530, Chung Cheng N. Rd.
Sanchung City, Taipei
Taiwan 24103, R.O.C.
Phone: 886-2-988-2126
886-2-980-5255
Fax: 886-2-981-7086
886-2-983-3222

PHIHONG USA

Western Office:

374 S. Milpitas Blvd.
Milpitas, CA 95035
Phone: 408-946-7888
Fax: 408-946-8098
Email: usasales@phihongusa.com
Internet: <http://www.phihongusa.com>

Eastern Office:

3005 Brodhead Road
Bethlehem, PA 18017
Phone: (610) 866-9911
Fax: (610) 866-9920

Southwestern Office:

3325 Cochran St., Suite 200
Simi Valley, CA 93063
Phone: (805) 520-8177
Fax: (805) 520-3907

**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)

