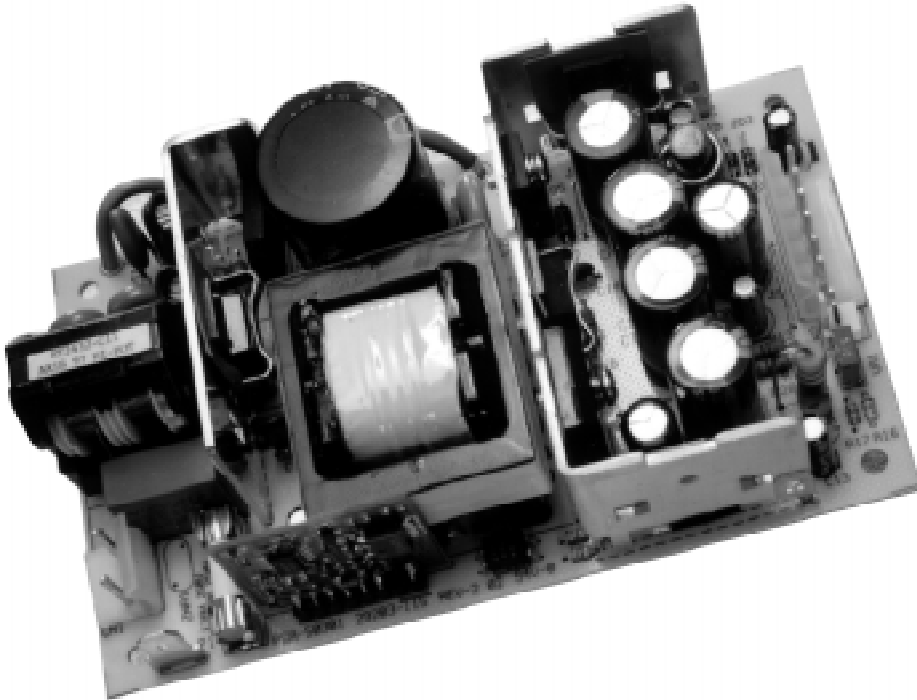


# 50W Universal Input Network Power Supply

## PSA-50 High Current Triple Output



### Features

- Up to 8A on +5V
- No cross regulation
- Low profile design
- All outputs regulated
- Surface mount controller
- CE LVD/EMC certified

### Applications

- LAN hubs and routers
- Multiple modem racks

### Safety Approvals

- UL 1950
- CSA 22.2 234
- IEC950 (EN60950)
- CE LVD and EMC; CB Report

### Mechanical Characteristics

- Dimensions:
- Length: 127mm (5.0in)
  - Width: 76.2mm (3.0in)
  - Height: 32.5mm (1.28in)
  - Weight: 230gm (13oz)

### Output Specifications

Model	DC Output Voltage	Load		Regulation		Ripple(1) P-P
		Min.	Max.*	Line	Load	
PSA-50-301	5.1	1.0A	8.0A	±1%	±2%	50mV
	12	0.0A	1.5A	±2%	±5%	120mV
	-12	0.0A	0.5A	±2%	±5%	120mV

\* COMBINED OUTPUT NOT TO EXCEED TOTAL POWER RATING: 50W convection cooled and 64W at 25cfm.  
 (1) Measured at output connector terminated with a 10mfd capacitor and 0.1mfd ceramic capacitor in parallel.  
 Dual Output version also available for OEM applications.

ISO 9001 • BABT • MITI  
 Facility Approvals

# 50W Universal Input Network Power Supply ..... PSA-50 High Current Triple Output

## Characteristics

**AC Input Voltage**  
 90VAC-264VAC

**AC Frequency**  
 47 to 63Hz

**AC Input Current (maximum load)**  
 2A at 120VAC  
 1A at 240VAC

**AC Inrush Current  
 (max load, cold start)**  
 20A at 120VAC, 25°C  
 40A at 240VAC, 25°C

**AC Surge**  
 IEC 1000-4-5, Level 3

**AC Harmonic Emissions**  
 IEC 1000-3-2  
 Complies at 50W

**AC Leakage Current**  
 1ma maximum

**Efficiency**  
 70% typical at full load

**Regulation (Line)**  
 $\pm 1\%$  (V1);  $\pm 2\%$  (V2,V3)

**Regulation (Load)**  
 $\pm 2\%$  (V1);  $\pm 5\%$  (V2,V3)

**Total Output Power**  
 Convection: 50W  
 25cfm air: 64W

**Hold-up Time**  
 16ms, full load, 120VAC

**Overcurrent Protection**  
 Short circuit, all outputs, Auto-Restart

**Overvoltage Protection**  
 V1 only; 5.6-6.5VDC, Auto-Restart

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

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

**MTBF**  
 >100,000 hours, full load, 25°C

**EMI**  
 FCC class B  
 IEC EN55022 Class B

**ESD**  
 IEC 801-2, Level 2

**AC Connector**  
 Molex 09-50-3031  
 P1-L P2-N

**DC Connector**  
 Molex 09-50-3061  
 P1=-12V; P2,3=Return  
 P4,5=+5; P6=+12

**Fan Connector**  
 Molex 22-01-1023  
 P1=-12V; P2=Return



### 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 CORPORATION

**U.S. Headquarters:**  
 374 S. Milpitas Blvd.  
 Milpitas, CA 95035  
 Phone: 408-946-7888  
 Fax: 408-946-8098  
 Email: [usasales@phihongusa.com](mailto: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

## Dimension Diagram Unit: mm (inch)

