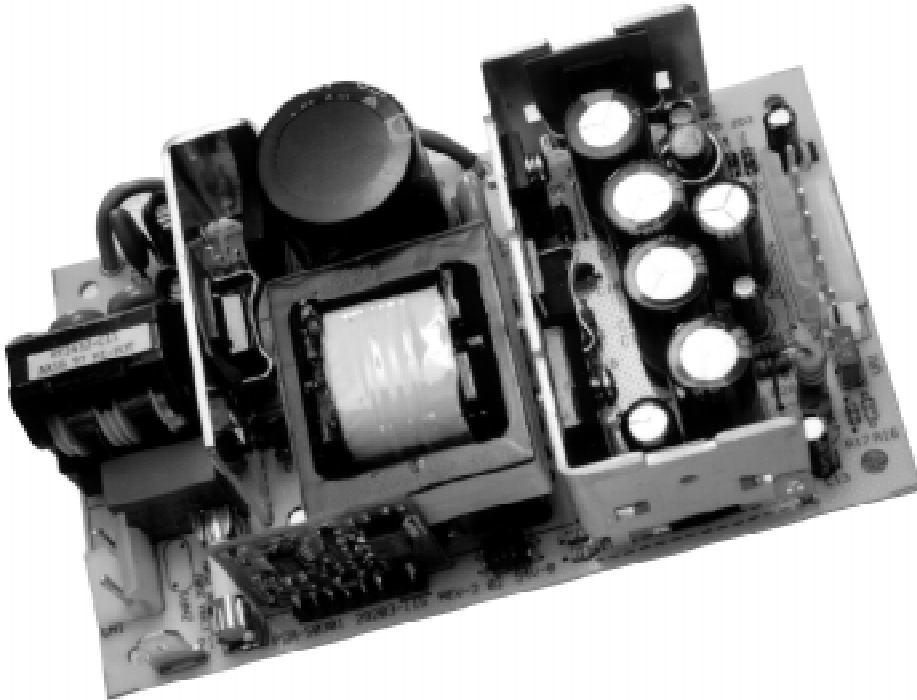


# 50W Universal Input Network Power Supply

## 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



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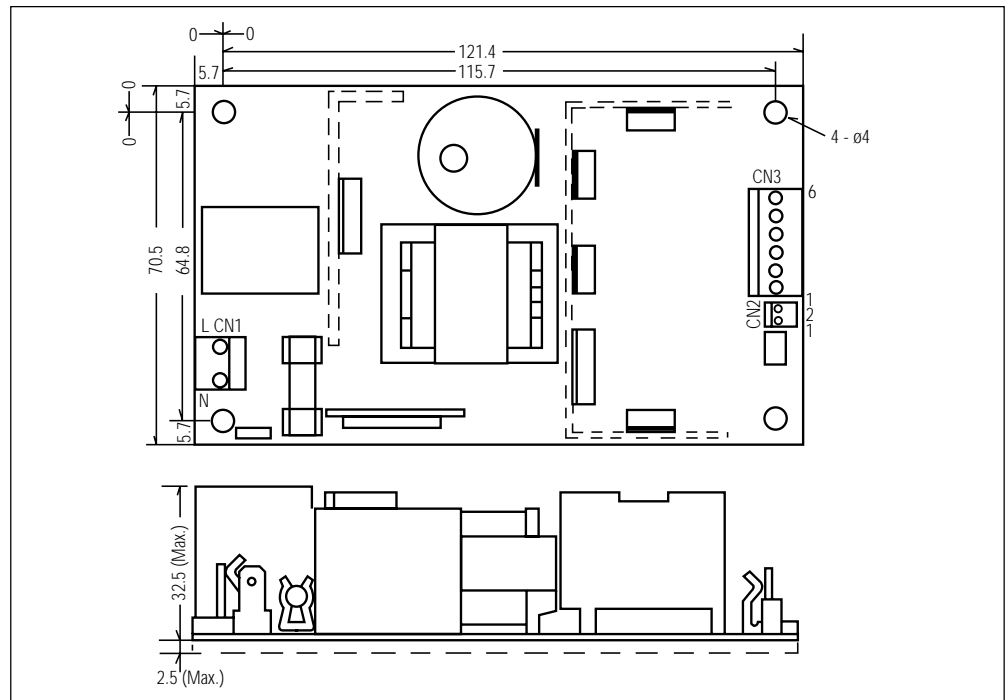
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## Dimension Diagram Unit: mm (inch)



50/704