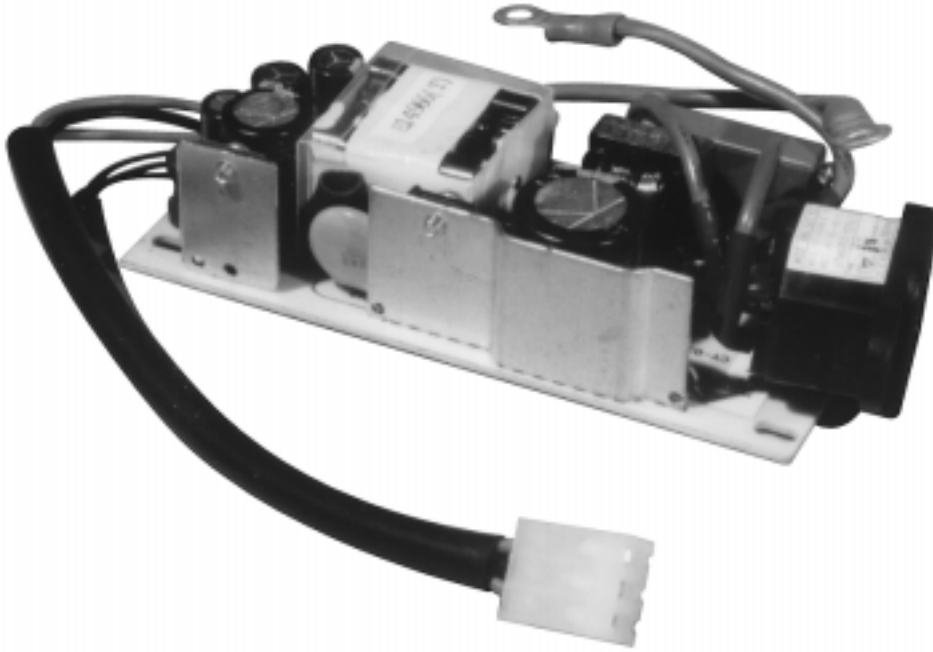


# 20W Mini Universal Series

## PSA-20A Dual Output Switcher



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### Features

- Integral AC Connector
- 2x4 inch Footprint
- Built-In EMI Filter
- DC Cord & Connector

### Applications

- Portable Devices
- Microprocessor Systems
- Low Profile Racks
- CD ROM Drives

### Safety Approvals

- UL1950 [E127643]
- CSA 22.2 234 [LR56927-144]
- TUV IEC 950, EN60950 [R9552260]

### Mechanical Characteristics

- Dimensions:
- Length: 101.6mm (4in)
  - Width: 51.3mm (2in)
  - Height: 25mm (1in)
  - Weight: 130gm (4.6oz)

### Output Specifications

Model	DC Output Voltage	Load		Ripple (1) P-P	Regulation (2)	
		Min.	Max.		Line	Load
PSA-20A	5V	0.2A	1.5A	50mV	+2%	+5%
	12V	0A	1.0A	120mV	+2%	+10%

(1) Measured at 10W by using a 12 inch twisted pair terminated with a 10mfd capacitor and a 0.1mfd ceramic in parallel.

**ISO 9001 • BABT  
Facility Approvals**



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**20W Mini Universal Series  
PSA-20A Dual Output Switcher**

**Characteristics**

**AC Input Voltage**  
85 to 264 VAC

**AC Input Frequency**  
47 to 63Hz

**AC Input Current**  
1Arms (120VAC)  
2Arms (240VAC)

**AC Inrush Current (Cold)**  
15A max. (120VAC)  
30A Max. (240VAC)

**Leakage Current**  
Less than 3.5ma (240VAC)

**Efficiency**  
70% @ 20W (120VAC)

**Hold-up Time**  
16msec, 16W (120VAC)

**Switching Frequency**  
50KHz (typical)

**Overcurrent Protection**  
>120%

**Operation Temperature (Convection)**  
0 to 40°C, derated to 75% at 60°C

**Storage Temperature/Humidity**  
-20 to +85°C  
20 to 90% RH (Non-condensing)

**MTBF**  
100,000 hrs. minimum  
(full load, high line, 25°C)

**EMI**  
FCC Class B  
IEC EN55022B  
VFG243

**AC Input Connector**  
IEC 320/13

**Safety Ground Lugs (2)**  
#4 Hole, Molex AA-821-08T

**DC Output Connector:**  
Molex 09-50-3031  
Pin 1 - +12 (Blue)  
Pin 2 - Return (Blk)  
Pin 3 - +5 (Red)

**Dimension Diagram Unit: mm (inch)**

