

# 200W Auto-Ranging Industrial Series

## PSA-2041U Multiple Output Switching Power Supply



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### Features

- High efficiency
- Built-in EMI filter
- 100% Burn-in for 24 hours
- Low output ripple
- Small low profile package
- Short circuit protection
- Over voltage protection

### Applications

- File servers
- Peripheral equipment
- Microprocessor based systems
- Industrial controls

### Safety Approvals

- UL 1950
- CSA 22.2 1402C Level 3
- TUV EN 60950 [IEC 950]

### Mechanical Characteristics

- Dimensions:
- Length: 203.2mm (8in.)
  - Width: 114.3mm (4.5in)
  - Height: 50.4mm (2in)
  - Weight: 1.27Kgs (2.8lbs)

### Output Specifications

Model	DC Output Voltage	Load			Ripple P-P	Total Tolerance
		Min.	Max.	@30 CFM		
PSA-2041U	+5V	5.0A	12A	25A	50mV	+1%
	-5V	0.4A	1.5A	2A	100mV	+6%
	-12V	0.4A	1.5A	2A	120mV	+6%
	+12V	1.0A	3.0A	5A	120mV	+6%
PSA-2042U	+5V	5.0A	12A	25A	50mV	+1%
	+12V	0.4A	1.5A	2A	120mV	+6%
	-12V	0.4A	1.5A	2A	120mV	+6%
	+12V	1.0A	3.0A	5A	120mV	+6%
PSA-2044U	+5V	5.0A	12A	25A	50mV	+1%
	-12V	0.4A	1.5A	2A	120mV	+6%
	+12V	0.4A	1.5A	2A	120mV	+6%
	+24V	0.5A	1.5A	2.5A	200mV	-5+7%

(1) The maximum continuous output power shall not exceed 100 watts with convection cooling, and 150 watts with 30 CFM air cooling.  
 (2) Ripple & noise is measured at 20MHz bandwidth limit by using a 10in. twisted wire terminated with a 10µF capacitor in parallel with a 0.1µF ceramic capacitor.

ISO 9001 • BAPT  
Facility Approvals



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**200W Auto-Ranging Industrial Series**  
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**PSA-2041U**  
**Multiple Output Switching Power Supply**

**Characteristics**

**AC Input Voltage**  
90-132/180-264VAC  
(Auto ranging)

**AC Frequency**  
47 to 63Hz

**AC Input Current**  
90-132VAC 5.0A (rms)  
180-264VAC 2.5A (rms)

**DC Output**  
See Chart

**Efficiency**  
70% typical at moninal AC line  
and full load

**Hold-up Time**  
16msec. at moninal AC line  
and full load

**Overvoltage Protection**  
Built-in at 110-130% of main output

**Overcurrent Protection**  
>130% of rated output power

**Operation Temperature**  
0 to 40°C

**Storage Temperature**  
-25 to 85°C

**Temperature Coefficient**  
0.02% per°C

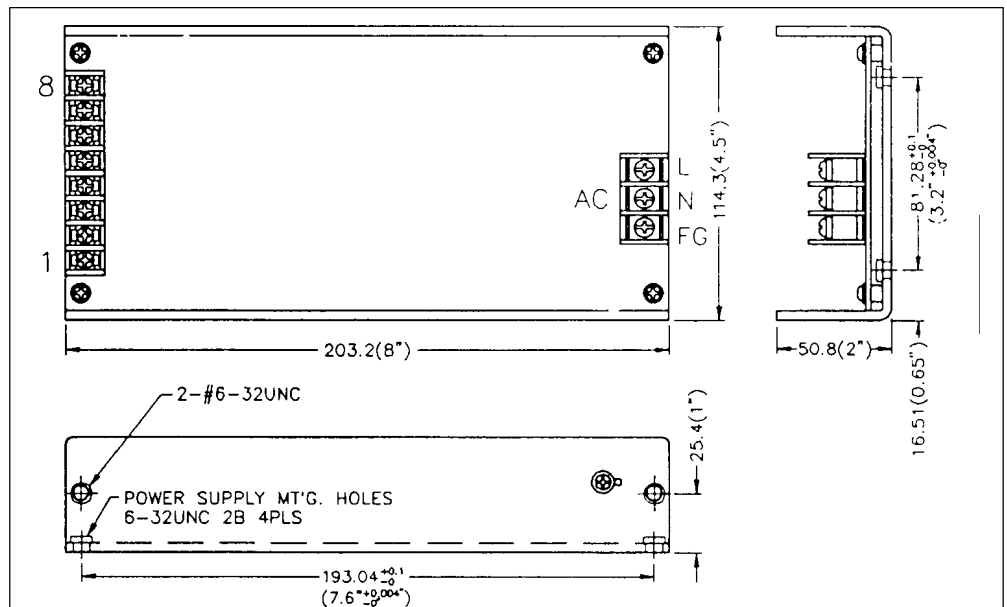
**Insulation Resistance**  
50M ohm minimum from input to  
output, input to ground

**MTBF**  
Calculated  
75,000hrs. at 25°C half load  
40,000hrs. at 25°C full load

**EMI Requirements**  
Meets conduction limits of  
FCC class A rules  
VDE 0871 class A

**Inrush Current**  
50A max. @ cold start

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



Pin	Model	PSA-2041U	PSA-2042U	PSA-2044U
1		+5V	+5V	+5V
2		+5V	+5V	+5V
3		RTN	RTN	RTN
4		RTN	RTN	RTN

Pin	Model	PSA-2041U	PSA-2042U	PSA-2044U
5		-5V	+5V	-12V
6		-12V	+5V	+12V
7		RTN	RTN	RTN
8		RTN	+12V	+24V

2041U M/704