



## 18 Watt Universal 3-Wire Input Adapter PSAA18U Adapter Meets EISA and Ecodesign Requirements



### Features

- Low Cost
- Efficiency Level V Compliance
- Ecodesign ErP Directive 2009/125/EC level 2 annex 1b Compliant
- Non-vented/Spill-proof Case
- Low Profile Design
- Class B EMI

### Applications

- Portable Equipment
- Access Devices
- Peripherals
- Network Hubs

### Safety Approvals

- cUL/UL
- CE

### Mechanical Characteristics

- Length: 103mm (4.06in)
- Width: 49mm (1.93in)
- Height: 33.5mm (1.32in)
- Weight: 140g (4.94oz.)

### Output Specifications

Model	DC Output Voltage	Load		Ripple <sup>(1)</sup> P-P (max.)	Regulation Line & Load	Efficiency Level
		Min.	Max.			
PSAA18U-090	+9V	0A	2.0A	110mV	±5%	ⓧ
PSAA18U-120	+12V	0A	1.5A	120mV	±5%	ⓧ
PSAA18U-150	+15V	0A	1.2A	150mV	±5%	ⓧ
PSAA18U-240	+24V	0A	0.75A	240mV	±5%	ⓧ

(1) Measured after 10 minutes warm up at 25°C with 12-inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel.

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**Input:**

**AC Input Voltage Rating**

100 to 240V AC

**AC Input Voltage Range**

90 to 264V AC

**AC Input Frequency**

47 to 63Hz

**Input Current**

0.6A (RMS) maximum at 100V AC

0.3A (RMS) maximum at 240V AC

**Leakage Current**

0.25mA maximum at 250V AC and 50Hz

**Inrush Current**

60A for 100V AC at maximum load

150A for 240V AC at maximum load

(Cold start at ambient 25°C)

**Input Power Saving**

0.3W maximum at no load

**Output:**

**Efficiency**

≥80.3% average efficiency

Compliant for Level V Marking

**Over-Voltage Protection**

Auto restart

**Over-Current Protection**

Auto restart

**Short-Circuit Protection**

Output can be shorted permanently without damage

**Environmental:**

**Temperature**

Operation 0 to +40°C

Non-operation -20 to +75°C

Relative Humidity 0 to 90%

**Emissions**

FCC Class B

EN55022 Class B/CISPR22 Class B

**Immunity**

EN50082-1: (EN55024)

EN61000-4-2 Level 4

EN61000-4-3 Level 2

EN61000-4-4 Level 2

EN61000-4-5 Level 3

EN61000-4-6 Level 2

EN61000-4-8 Level 1

EN61000-4-11

**Insulation Resistance**

Input to Output : > 10M ohm, 500V DC

Input to Field Ground: > 10M ohm, 500V DC

**Dielectric Withstand (Hi-pot) Test**

Primary to Secondary: 3000V AC for 1 min., 10mA

Primary to F.G.: 1500V AC for 1 min., 10mA

**Input Connector**

IEC C14

**DC Output Connector**

2.1mm x 5.5mm center positive standard

**Dimension Diagram Unit: mm**

