



# 18 Watt Universal 3-Wire Input Adapter

## PSAA18U Adapter Meets EISA and ENERGY STAR Requirements



### Features

- Low Cost
- Efficiency Level V Compliance
- Class B EMI
- Non-vented/Spill-proof Case
- Low Profile Design

### Applications

- Portable Equipment
- Access Devices
- Peripherals
- Network Hubs

### Safety Approvals

- cUL/UL60950-1
- CE
- IEC60950-1

### 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 (1) P-P (max.)	Regulation		Efficiency Level
		Min.	Max.		Line	Load	
PSAA18U-090	+9V	0A	2.0A	90mV	±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.

Phihong reserves the right to make changes without further notice. Please consult Phihong USA and visit [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications.

**INPUT:**

**AC Input Voltage Rating**  
100 to 240VAC

**AC Input Voltage Range**  
90 to 264VAC

**AC Input Frequency**  
47 to 63Hz

**Input Current**  
0.6A (rms) max. @ 100VAC  
0.3A (rms) max. @ 240VAC

**Leakage Current**  
0.25mA max. @ 250VAC / 50Hz.

**Inrush Current (cold start @ ambient 25°C)**  
60A for 100VAC at max. load  
150A for 240VAC at max. load

**Input Power Saving**  
0.3W maximum at no load

**OUTPUT:**  
**Efficiency**  
≥ 80.3% average efficiency

**Hold-up Time**  
10mS Min. @ 115VAC / 60 Hz

**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**

Operation 0 to 90% Non-Condensing  
Non-operation 0 to 95% Non-Condensing

**Emissions**

FCC Class B  
EN55022 Class B / CISPR22 Class B

**Immunity**

EN 50082-1: (EN55024)  
EN 61000-4-2, Level 4  
EN 61000-4-3, Level 2  
EN 61000-4-4, Level 2  
EN 61000-4-5, Level 3  
EN 61000-4-6, Level 2  
EN 61000-4-8, Level 1  
EN 61000-4-11

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

Primary to Secondary: 3000VAC for 1 minute, 10mA  
Primary to FG: 1500VAC for 1 minute, 10mA

**DC Output Connector**

2.1mm x 5.5mm center positive standard

**Dimension Diagram Unit: mm**

