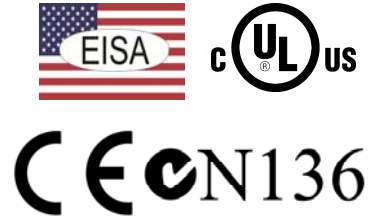




## 5W Interchangeable Plug Series PSA05R Adapter Meets CEC and EISA Requirements



### Features

- Double Insulated
- Field Changeable AC Plugs
- Efficiency Level IV Compliance
- Low Leakage Current
- Low Cost
- Class B EMI

### Applications

- MP3 Players
- PDAs
- Personal Electronics
- Digital Cameras

### Safety Approvals

- cUL/UL
- SAA
- CE (9V Model Only)
- C-Tick

### Mechanical Characteristics

- Length: 71.7mm (2.82in)
- Width: 45mm (1.77in)
- Height: 31mm(1.22in)
- Weight: 120g (4oz)

### Output Specifications

Model <sup>(1)</sup>	DC Output Voltage	Load		Ripple <sup>(2)</sup> P-P (max.)	Regulation		Efficiency Level <sup>(3)</sup>
		Min.	Max.		Line	Load	
PSA05R-033-R	3.3V	0A	1.2A	50mV	±1%	±5%	IV <sub>115V AC</sub> III
PSA05R-050-R	5V	0A	1.0A	50mV	±1%	±5%	IV
PSA05R-090-R	9V	0A	0.56A	90mV	±1%	±5%	V
PSA05R-120-R	12V	0A	0.42A	120mV	±1%	±5%	IV

Notes: (1) Minimum order quantities of 1600 pieces apply. These units may no longer be shipped to the European Union for commercial or consumer purposes.

(2) Measured after 10 minutes with by-pass capacitors 0.1uF // 10uF at output connector terminal.

(3) Only level V efficient products qualify for CE marking allowing them to be sold to countries in the EU

Interchangeable clips sold separately.

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications and contact information.

**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**  
0.25A (RMS) maximum at 120V AC  
0.125A (RMS) maximum at 240V AC

**Leakage Current**  
<0.25mA maximum at 254V AC

**Inrush Current**  
30A for 120V AC at maximum load  
60A for 240V AC at maximum load  
(Cold start at ambient 25°C)

**Input Power Saving**  
0.3W maximum for 9V model  
0.5W maximum for 3.3V, 5V and 12V models

**Output:**

**Efficiency**  
≥70% average efficiency for 9V model  
≥64.5% average efficiency for 5V and 12V models  
≥62.4% average efficiency at 115V AC, ≥61.4% average efficiency at 230V AC for 3.3V model

**Environmental:**

**Temperature**  
Operation 0 to +40°C  
Non-operation -25 to +85°C  
Humidity 10 to 90%

**EMI**

FCC Class B  
EN55022 Class B

**Immunity**

EN61000-4-2 Level 3  
EN61000-4-3 Level 2  
EN61000-4-4 Level 2  
EN61000-4-5 Level 3  
EN61000-4-6 Level 3  
EN61000-4-11

Harmonic EN61000-3-2  
Flicker EN61000-3-3

**Hold-up Time**

10mS minimum at 120V AC and maximum load

**Over-Voltage Protection**

< 120%, Zener Clamp

**Short-Circuit Protection**

>120% auto restart

**MTBF**

150K hours minimum at full load and 110V AC, 60Hz (measured at ambient 25°C)

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

Input to Output: 3000V AC for 1 min., 10mA

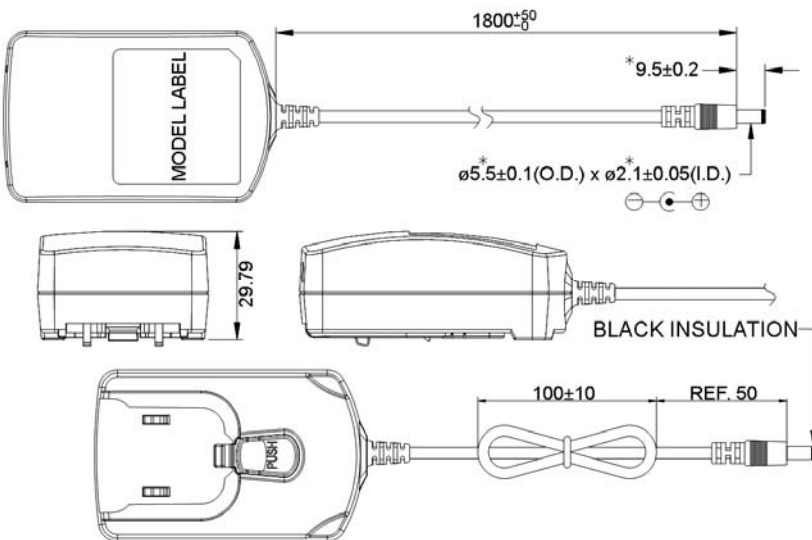
**DC Output Connector**

2.1 x 5.5 x 9.5mm Center Positive Barrel Standard

**AC Input Clips (Sold Separately)**

RPA: US	RPI: India
RPB: Brazil	RPK: UK
RPC: China	RPN: Argentina
RPE: Europe	RPS: Australia
RPH: Korea	RPX: IEC320 C8

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



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