



## 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
- TUV
- SAA
- CE
- 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
		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

Note: (1) PSA05R-033 and PSA05R-050 are available in special order quantities only, contact Phihong for more information.  
 (2) Measured after 10 minutes with by-pass capacitors 0.1uF // 10uF at output connector terminal.

Interchangeable clips sold separately.

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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**  
0.25A (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**  
≥72.3% 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)**

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

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

