



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**10~20 Watt Interchangeable Plug Series  
PSAA20R Adapter Series Meets EISA and Ecodesign Requirements**



**Features**

- Efficiency Level V Compliance
- Class B EMI
- Ecodesign ErP Directive 2009/125/EC Level 2 annex 1b Compliant
- No-load Power Saving
- High Efficiency
- Compact Size
- Class II Double Insulated

**Applications**

- Peripherals
- Gaming Machines
- Point of Sale Equipment
- Network Equipment

**Safety Approvals**

- cUL/UL
- CE
- SAA
- C-Tick

**Mechanical Characteristics**

- Length: 71.6mm (2.82in)
- Width: 50mm (1.97in)
- Height: 31mm (1.22in)
- Weight: 170g (6oz)

**Output Specifications**

Model	DC Output Voltage	Load		Regulation		Output Power	Efficiency Level
		Min.	Max.	Line	Load		
PSAA20R-033	3.3V	0A	3.00A	±5%		9.9W	V
PSAA20R-050	5V	0A	3.00A	±5%		15W	V
PSAA20R-120	12V	0A	1.67A	±5%		20W	V
PSAA20R-240	24V	0A	0.83A	±5%		20W	V
PSAA20R-480	48V	0A	0.42A	±5%		20W	V

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**  
90V AC to 264V AC

**AC Input Frequency**  
47 to 63Hz

**Input Current**  
0.5A (RMS) maximum at 120V AC  
0.25A (RMS) maximum at 240V AC

**Leakage Current**  
0.25mA maximum at 264V AC

**Inrush Current**  
40A maximum for 120V AC and maximum load  
80A maximum for 240V AC and maximum load  
(Cold start at ambient 25°C)

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

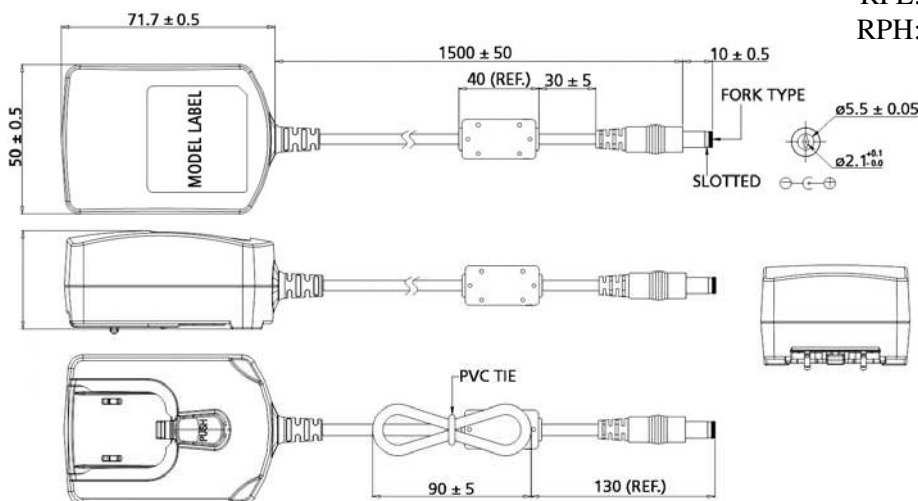
**Output:**

**Efficiency**  
Meets requirements for Energy Star EPS Version 2.0 Level V and Ecodesign Directive 2009/125/EC level 2 annex 1b

**Ripple**  
3.3V – 50mV      24V – 240mV  
5V – 100mV      48V – 480mV  
12V – 120mV

**Hold-up Time**  
10mS minimum at 120V AC and maximum load

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



**Over-Current Protection**

Short circuit protection – auto-restart

**Short-Circuit Protection**

Output can be shorted without damage

**Environmental:**

**Temperature**

Operation                      0 to +40°C  
Non-operation                -25 to +75°C  
Humidity                        20 to 90%

**Emissions**

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  
EN61000-3-2                    Class A  
EN61000-3-3

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

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

**DC Output Connector**

2.1 x 5.5mm Center Positive Standard

**DC Cord Length**

3.3V Model is 1200mm; all other models are 1500mm

**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