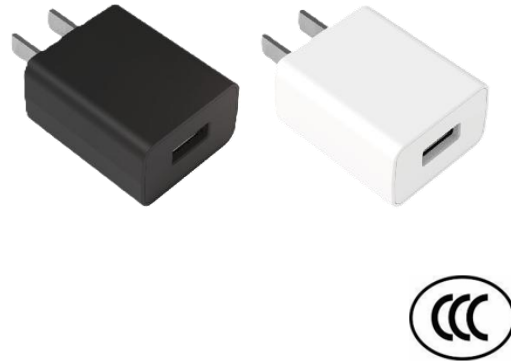


## 5 Watt USB A Adapters for China

### FEATURES

- Class II Double Insulated Design
- Fixed Input Prongs
- High Efficiency
- Short Circuit, Over-Voltage & Over-Current Protections
- 5,000 Meters Operating Altitude
- Data Lines (Pins 2 and 3) Shorted



### APPLICATIONS

- Portable Devices
- Consumer Electronics
- Test & Measurement

Phihong's PSAA05C-050QL6-R and PSAA05C-050QL6W-R are high efficiency wall-mount adapters with fixed GB 1002 AC input prongs for China. They are approved to China GB 4943.1 safety compliance and are approved for operation to 5,000 meters operating altitude. The adapters feature a USB A receptacle with pins 2 and 3 shorted for USB charging and are ideal for charging low power consumer electronics, portable equipment and metering devices.

Model	Output Voltage	Output Current	Power Rating	Output Regulation	Case Color	Ripple & Noise <sup>2</sup> (P-P)	230Vac No Load Power Draw <sup>3</sup>	230Vac Average Efficiency <sup>3</sup>
PSAA05C-050QL6-R	5.0V	1.0A	5.0W	±5%	Black	200mV	≤0.075W	≥73.77%
PSAA05C-050QL6W-R					White			

<b>Notes</b>	<ol style="list-style-type: none"> <li>1. All specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>2. Measured at 20 MHz and output by-passed at connector with 0.1uF ceramic capacitor &amp; 10uF electrolytic capacitors.</li> <li>3. Efficiency measured after 30 minutes burn-in.</li> </ol>
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## Specifications<sup>1</sup>

### Input

<b>AC Voltage Range</b>	90Vac to 264Vac
<b>Frequency</b>	47 to 63Hz
<b>Input Current</b>	0.15A (rms) max. @ 230Vac & full load
<b>Inrush Current</b>	30A(rms) max. @ 264Vac (Cold Start @ 25°C)
<b>Leakage Current</b>	0.025mA max.

### Output

<b>Turn-on Delay Time</b>	200mS max. @ 90Vac & full load
<b>Hold Up Time</b>	10mS at full load (115Vac/60Hz & 230Vac/50Hz input)
<b>Output Voltage Overshoot</b>	10% max. when powering on or off
<b>Dynamic Load Response</b>	Hi-Limit & Lo-Limit=Vout±5% ( $\Delta V_o$ ) (without cable/wire) Output with 25%~50% & 50%~75% load change, T <sub>H</sub> =T <sub>L</sub> =0.5mS, Slew rate=0.25A/ $\mu$ s Hi-Limit & Lo-Limit+Vout±10% ( $\Delta V_o$ ) (without cable/wire) Output with 10%~90% & 0%~50% load change, T <sub>H</sub> =T <sub>L</sub> +0.5mS, Slew rate=0.25A/ $\mu$ s

### Protections

<b>Over Current</b>	1.5A max. Auto-restart.
<b>Over Voltage</b>	<7.5V peak, at 0.05~1.0A load
<b>Short Circuit</b>	Output can be shorted without damage. Auto-restart.

### Environmental

<b>Operating Temperature</b>	-10°C to +45°C (low temperature start up use CR mode)
<b>Operating Humidity</b>	5% to 95% relative humidity
<b>Storage Temperature</b>	-40°C to +70°C
<b>Storage Humidity</b>	95% relative humidity
<b>Operating Altitude</b>	5000 meters

### Safety, Emissions & Immunities

<b>Harmonic Current Emission</b>	GB 17625.1
<b>Voltage Fluctuations &amp; Flicker</b>	GB 17625.1
<b>Safety Standards</b>	GB 4943.1
<b>Emissions</b>	GB/T 9254
<b>Immunities</b>	GB 17625.1

### Mechanicals

<b>Dimensions (L x W x H)</b>	55.5mm (2.19in) x 33.5mm (1.32in) x 20.8mm (0.82in)
<b>Weight</b>	25g (0.882oz)
<b>AC Input</b>	GB 1002
<b>DC Output Receptacle</b>	USB A

<b>Notes</b>	<ol style="list-style-type: none"> <li>All specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>Measured at 20 MHz and output by-passed at connector with 0.1<math>\mu</math>F ceramic capacitor &amp; 10<math>\mu</math>F electrolytic capacitors.</li> <li>Efficiency measured after 30 minutes burn-in.</li> </ol>
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**Specifications<sup>1</sup>**

**Outline Drawing**

