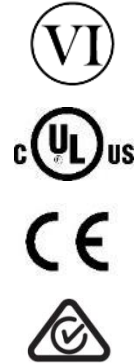




# 12W Interchangeable Wall Plug Adapter Series



## Features

- Double Insulated
- Field Changeable AC Plugs – Sold Separately
- Limited Power Source (LPS)
- US DoE Level VI Efficiency Compliance
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- AS/NZS 4665.1:2005, AS/NZS 4665.2:2005 Compliance
- Class B EMI

## Applications

- Wireless Communications
- Peripherals
- Network Equipment
- Gaming



# PSAC12R Specifications<sup>1</sup>

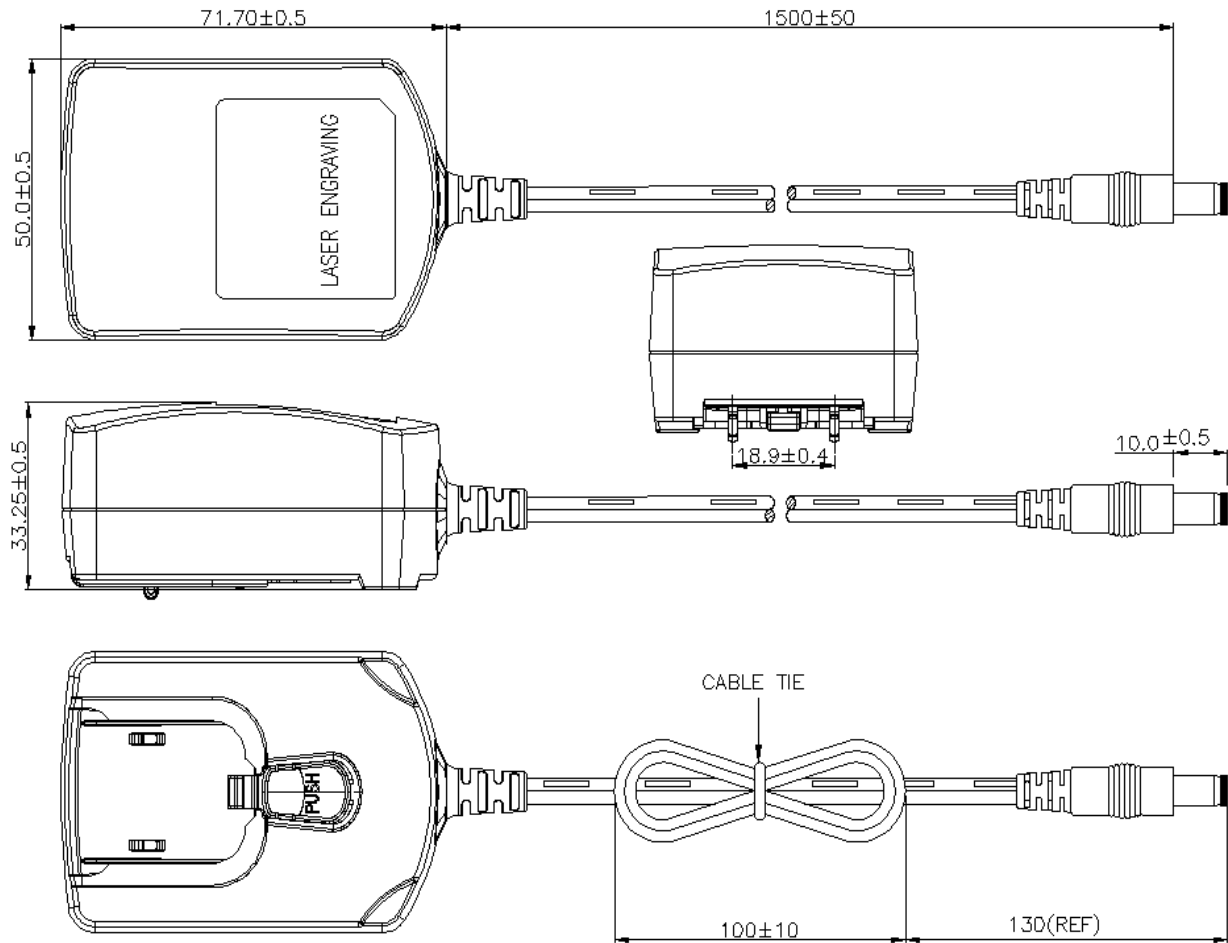
Model		PSAC12R-050-R	PSAC12R-060-R	PSAC12R-075-R
Output	DC Output Voltage	5.0V	5.9V	7.5V
	Max Current	2.4A	2.0V	1.6A
	Output Power	12.0W	11.8W	12.0W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max) <sup>2</sup>	100mV	100mV	100mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.5A (RMS) max for 120Vac/max load 0.25A (RMS) max for 230Vac/max load		
	Inrush Current	<30A for 120VAC, <60A for 230VAC (Cold start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.0336W	0.043W	0.046W
	No Load Power Consumption at 230VAC Input	0.058W	0.072W	0.076W
	115VAC Average Efficiency <sup>3</sup>	84.50%	84.15%	85.49%
	230VAC Average Efficiency <sup>3</sup>	83.30%	83.03%	84.47%
	230VAC 10% Load Efficiency <sup>3</sup>	79.30%	78.72%	79.04%
	Leakage Current	0.25mA max		
Protection	Over-Voltage	<7.5V	<8V	<10V
	Short Circuit	The output can be shorted without damage. Auto recover		
	Over-Current	3A max, Auto restart	3A max, Auto restart	2.2A max, Auto restart
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-40° to +85°C		
	Operating Humidity	50% to 90%		
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA		
	Insulation Resistance	Primary to Secondary: >7M ohm for 500VDC		
	Standards	cULus 60950-1, cULus 62368-1, IEC60950-1, IEC 62368-1, AS/NZS 62368.1:2018		
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32, AS/NZS CISPR 32 Class B Conducted and Radiated		
	Harmonic Current Emissions	IEC 61000-3-2		
	Voltage Fluctuations & Flicker	IEC 61000-3-3		
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2 (+/- 8kV air, +/-4kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimensions (L x W x H)	71.7mm (2.82in) x 50mm (1.97in) x 33.25mm (1.31in)		
	Weight	112g		
	DC Cord Length	1500mm		
	DC Cable Type	20 AWG	20 AWG	22 AWG
	DC Output Connector	5.5mm x 2.1mm x 10mm center positive		

Model		PSAC12R-090-R	PSAC12R-120-R	PSAC12R-150-R
Output	DC Output Voltage	9.0V	12.0V	15.0V
	Max Current	1.33A	1.0A	0.8A
	Output Power	11.97W	12.0W	12.0W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max) <sup>2</sup>	120mV	120mV	150mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.5A (RMS) max for 120Vac/max load 0.25A (RMS) max for 230Vac/max load		
	Inrush Current	<30A for 120VAC, <60A for 230VAC (Cold start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.0615W	0.0229W	0.053W
	No Load Power Consumption at 230VAC Input	0.0858W	0.0443W	0.074W
	115VAC Average Efficiency <sup>3</sup>	87.22%	86.43%	85.98%
	230VAC Average Efficiency <sup>3</sup>	85.75%	85.25%	84.55%
	230VAC 10% Load Efficiency <sup>3</sup>	78.53%	74.87%	70.55%
	Leakage Current	0.25mA max		
Protection	Over-Voltage	<12V	<16V	<22V
	Short Circuit	The output can be shorted without damage. Auto-recover		
	Over-Current	1.8A max, Auto restart	1.5A max, Auto restart	1.5A max, Auto restart
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-40° to +85°C		
	Operating Humidity	50% to 90%		
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA		
	Insulation Resistance	Primary to Secondary: >7M ohm for 500VDC		
	Standards	cULus 60950-1, cULus 62368-1, IEC60950-1, IEC 62368-1, AS/NZS 62368.1:2018		
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32, AS/NZS CISPR 32 Class B Conducted and Radiated		
	Harmonic Current Emissions	IEC 61000-3-2		
	Voltage Fluctuations & Flicker	IEC 61000-3-3		
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2 (+/- 8kV air, +/-4kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimensions (L x W x H)	71.7mm (2.82in) x 50mm (1.97in) x 33.25mm (1.31in)		
	Weight	112g		
	DC Cord Length	1500mm		
	DC Cable Type	22 AWG	20 AWG	22 AWG
	DC Output Connector	5.5mm x 2.1mm x 10mm center positive		

Model		PSAC12R-240-R	PSAC12-480-R
Output	DC Output Voltage	24.0V	48.0V
	Max Current	0.5A	0.25A
	Output Power	12.0W	12.0W
	Regulation	± 5%	± 5%
	Ripple & Noise P-P(max) <sup>2</sup>	240mV	400mV
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.5A (RMS) max for 120Vac/max load 0.25A (RMS) max for 230Vac/max load	
	Inrush Current	<30A for 120VAC, <60A for 230VAC (Cold start at ambient 25°C, full load)	
	No Load Power Consumption at 115VAC Input	0.065W	0.066W
	No Load Power Consumption at 230VAC Input	0.086W	0.090W
	115VAC Average Efficiency <sup>3</sup>	85.17%	88.02%
	230VAC Average Efficiency <sup>3</sup>	83.26%	86.63%
	230VAC 10% Load Efficiency <sup>3</sup>	67.81%	72.17%
	Leakage Current	0.25mA max	
Protection	Over-Voltage	<35V	<60V
	Short Circuit	The output can be shorted without damage. Auto recover	
	Over-Current	0.8A max, Auto restart	0.5A max, Auto restart
Environmental	Operating Temperature	0°C to +40°C	
	Non-Operating Temperature	-40° to +85°C	
	Operating Humidity	50% to 90%	
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA	
	Insulation Resistance	Primary to Secondary: >7M ohm for 500VDC	
	Standards	cULus 60950-1, cULus 62368-1, IEC60950-1, IEC 62368-1, AS/NZS 62368.1:2018	
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32, AS/NZS CISPR 32 Class B Conducted and Radiated	
	Harmonic Current Emissions	IEC 61000-3-2	
	Voltage Fluctuations & Flicker	IEC 61000-3-3	
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2 (+/- 8kV air, +/-4kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	
Mechanical	Dimensions (L x W x H)	71.7mm (2.82in) x 50mm (1.97in) x 33.25mm (1.31in)	
	Weight	112g	
	DC Cord Length	1500mm	
	DC Cable Type	26 AWG	26 AWG
	DC Output Connector	5.5mm x 2.1mm x 10mm center positive	
Notes	<ol style="list-style-type: none"> <li>The specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>20MHz bandwidth frequency oscilloscope, add a 0.1µF multilayer Cap. and Low ESR Electrolytic Cap. (10µF) at output connector terminals (nominal line voltage, full load).</li> <li>Efficiency is measured after 30 minutes burn-in.</li> </ol>		



# PSAC12R Outline Drawing



**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

Phihong USA Corporation  
47800 Fremont Boulevard  
Fremont, CA 94538  
Telephone: (510) 445-0100  
[www.phihong.com](http://www.phihong.com)


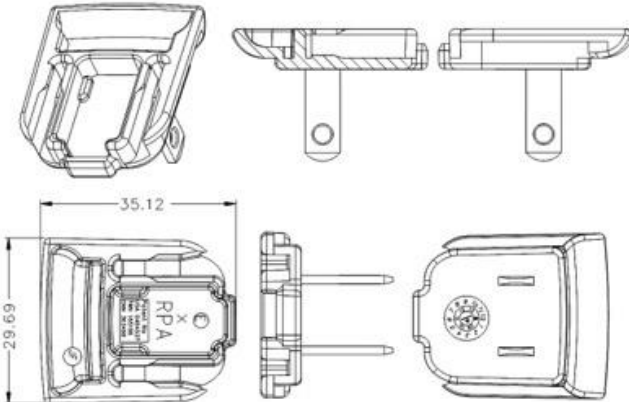

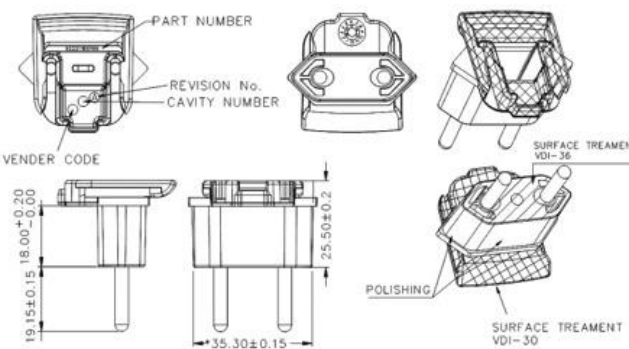

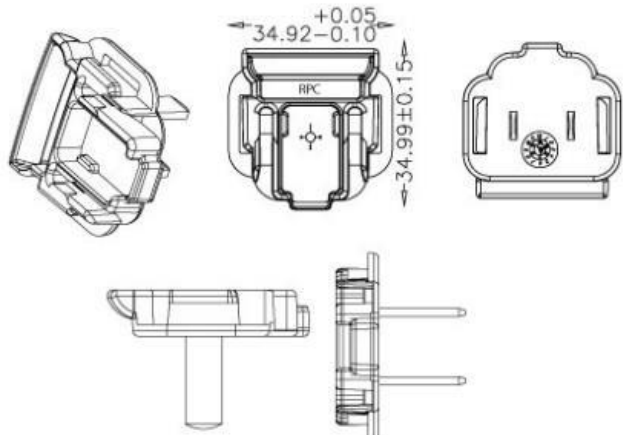
NOTE: This model has/The models in this product series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:


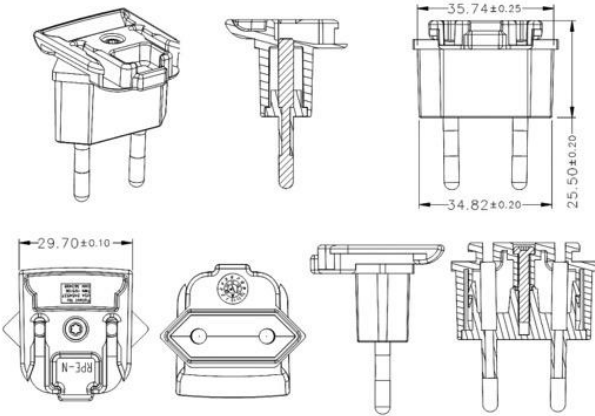

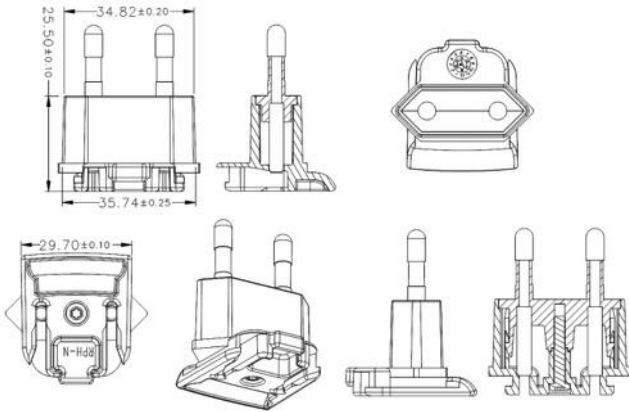

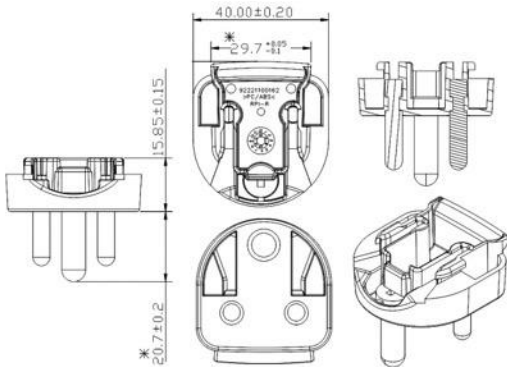
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.


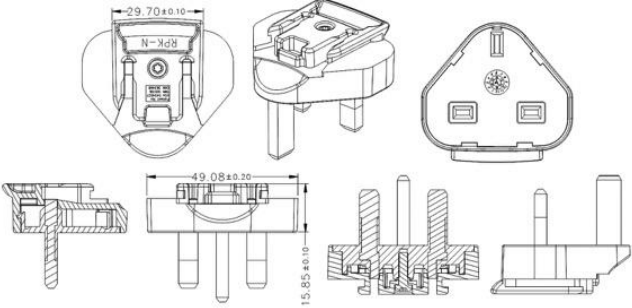

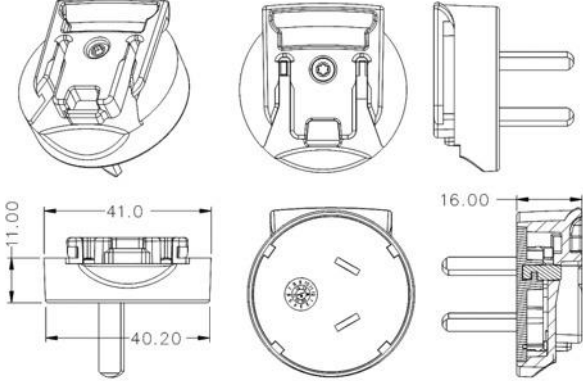

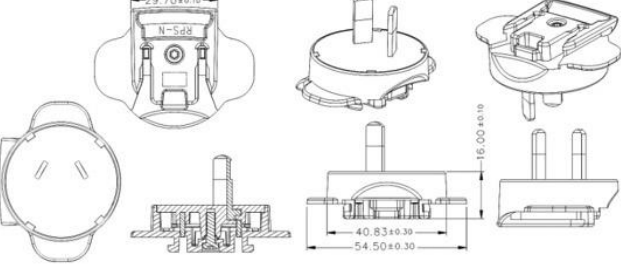
Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.


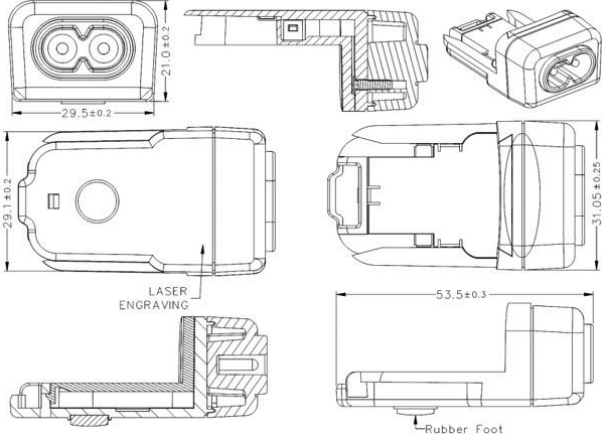



# AC Input Clips – Sold Separately

Model	Photo	Description	Outline Drawing - mm
RPA-AB01B-H		US Clip	
RPB-AB01B-H		Brazil Clip	 <p> PART NUMBER  REVISION No.  CAVITY NUMBER  VENDER CODE  SURFACE TREATMENT VDI-36  POLISHING  SURFACE TREATMENT VDI-30 </p> <p> Dimensions: 19.15±0.15, 18.00<sup>+0.20</sup><sub>-0.00</sub>, 25.50±0.2, 35.30±0.15 </p>
RPC-AB01B-H		China Clip	 <p> Dimensions: 34.92<sup>+0.05</sup><sub>-0.10</sub>, 34.99±0.15 </p>

Model	Photo	Description	Outline Drawing - mm
RPE-AB01B-H		Europe Clip	
RPH-AB01B-H		Korea Clip	
RPI-AB01B-H		India Clip	

Model	Photo	Description	Outline Drawing - mm
RPK-AB01B-H		UK Clip	
RPN-AB01B-H		Argentina Clip	
RPS-AB01B-H		Australia Clip	

Model	Photo	Description	Outline Drawing - mm
RPX-03-R		C8 Clip	
RPBAG-AB01B-H	<p>RPA-R, RPE-N-R, RPK(NC)-R and RPS-N-R interchangeable clips in a plastic bag.</p> 		

# Mouser Electronics

Authorized Distributor

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## Phihong:

[PSAC12R-050](#) [PSAC12R-060](#) [PSAC12R-075](#) [PSAC12R-090](#) [PSAC12R-120](#) [PSAC12R-150](#) [PSAC12R-240](#)  
[PSAC12R-480](#) [PSAC12R-050-R-CR1](#) [PSAC12R-060-R-CR1](#) [PSAC12R-090-R-CR1](#) [PSAC12R-120-R-CR1](#)  
[PSAC12R-050-R-C4](#)