



# 20-30W Desktop C14 Adapter Series



## Features

- Non-Vented Case
- US DoE Level VI Efficiency Compliance
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- Class B EMI

## Applications

- Portable Equipment
- Gaming Machines
- Peripherals
- Networking





# PSAC30U Series Specifications<sup>1</sup>

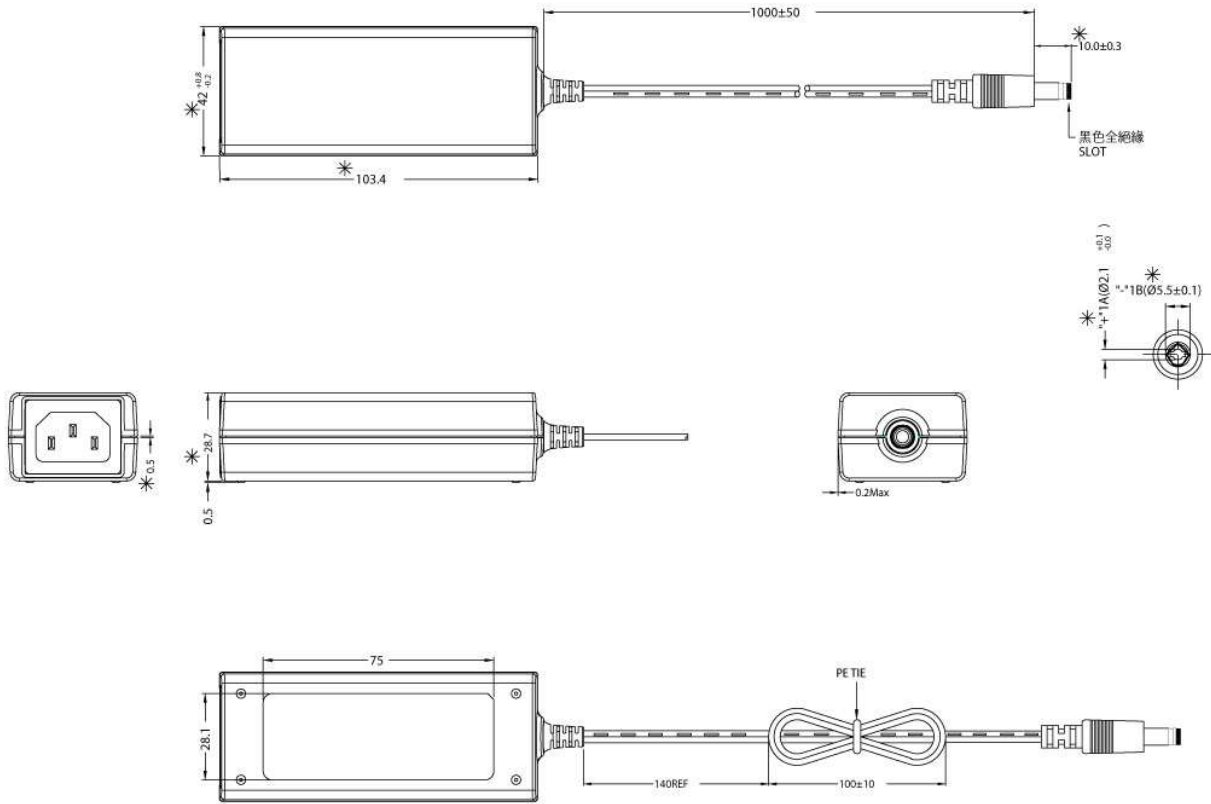
Model		PSAC30U-050L6-R <sup>2</sup>	PSAC30U-090L6-R <sup>2</sup>	PSAC30U-120L6-R <sup>2</sup>
Output	DC Output Voltage	5.0V	9.0V	12.0V
	Max Current	4.0A	3.0A	2.5A
	Output Power	20.0W	27.0W	30.0W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max) <sup>3</sup>	70mV	90mV	120mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.8A (RMS) max @120VAC, 0.5A (RMS) max @240VAC		
	Inrush Current	60A max @100VAC, 100A max @240VAC		
	No Load Power Consumption at 115VAC Input	0.026W	0.030W	0.0264W
	No Load Power Consumption at 230VAC Input	0.069W	0.060W	0.054W
	115VAC Average Efficiency <sup>4</sup>	84.21%	87.98%	88.88%
	230VAC Average Efficiency <sup>4</sup>	83.73%	87.63%	88.83%
	230VAC 10% Load Efficiency <sup>3</sup>	76.13%	82.30%	83.98%
Leakage Current	3.5mA max @254VAC, 50Hz			
Protection	Over-Voltage	10V max, Auto-restart	15V max, Auto-restart	20V max, Auto-restart
	Short Circuit	Output can be shorted permanently without damage		
	Over-Current	Auto restart		
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-20° to +75°C		
	Operating Humidity	20 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 IEC 60950-1, IEC 62368-1		
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated		
	Harmonic Current Emissions	IEC 61000-3-2		
	Voltage Fluctuations & Flicker	IEC 61000-3-3		
Mechanical	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 (+/- 2kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
	Dimensions (L x W x H)	103.4mm (4.07in) x 42mm (1.65in) x 28.7mm (1.13in)		
	Weight	175g		
	Cable Length	1000mm	1000mm	1500mm
	DC Output Connector	2.1mm x 5.5mm x 10.0mm		
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
	Cable Wire Type	16 AWG	16 AWG	18 AWG
Input Connector	IEC 60320 C14			

Model		PSAC30U-240L6-R <sup>2</sup>	PSAC30U-480L6-R <sup>2</sup>	PSAC30U-560L6-R <sup>2</sup>
Output	DC Output Voltage	24.0V	48.0V	56.0V
	Max Current	1.25A	0.625A	0.536A
	Output Power	30.0W	30.0W	30.016W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max) <sup>3</sup>	240mV	480mV	560mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.8A (RMS) max @120VAC, 0.5A (RMS) max @240VAC		
	Inrush Current	60A max @100VAC, 100A max @240VAC		
	No Load Power Consumption at 115VAC Input	0.042W	0.050W	0.050W
	No Load Power Consumption at 230VAC Input	0.070W	0.080W	0.090W
	115VAC Average Efficiency <sup>4</sup>	89.22%	89.83%	90.27%
	230VAC Average Efficiency <sup>4</sup>	89.19%	89.10%	89.18%
	230VAC 10% Load Efficiency <sup>4</sup>	83.33%	78.57%	79.88%
Leakage Current	3.5mA max @254VAC, 50Hz			
Protection	Over-Voltage	33V max, Auto-restart	65V max, Auto-restart	66V max, Auto-restart
	Short Circuit	Output can be shorted permanently without damage		
	Over-Current	Auto restart		
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-20° to +75°C		
	Operating Humidity	20 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 IEC 60950-1, IEC 62368-1		
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/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 (+/- 2kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimensions (L x W x H)	103.4mm (4.07in) x 42mm (1.65in) x 28.7mm (1.13in)		
	Weight	140g		
	Cable Length	1500mm		
	DC Output Connector	2.1mm x 5.5mm x 10.0mm		
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
	Cable Wire Type	24 AWG		
	Input Connector	IEC 60320 C14		
Notes	<ol style="list-style-type: none"> <li>The specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>Special order MOQ</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>			



# Outline Drawing

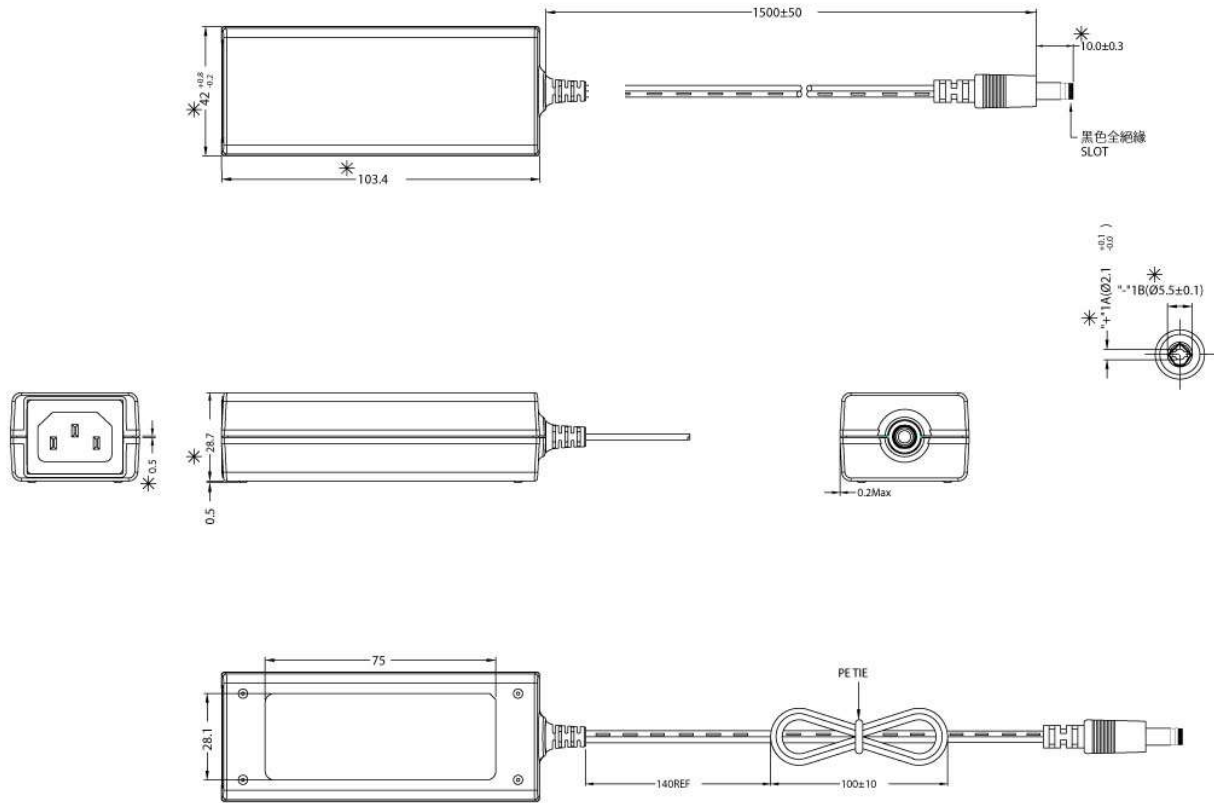
## PSAC30U-050L6-R, PSAC30U-090L6-R





# Outline Drawing

PSAC30U-120L6-R, PSAC30U-240L6-R,  
PSAC30U-480L6-R, PSAC30U-560L6-R



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

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NOTE: 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.



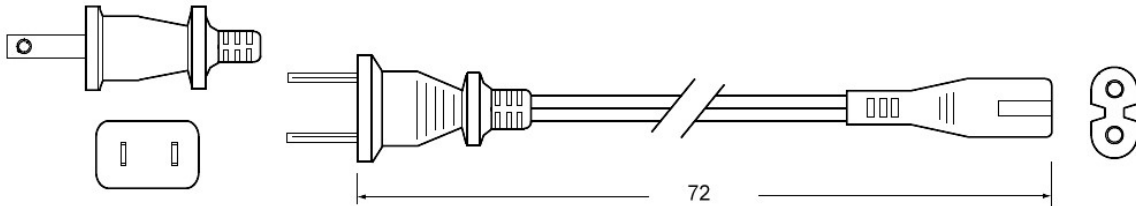
# Line Cords - Sold Separately

Model		AC15WNA-R	AC15WEU-R	AC15WUK-R
Specifications	Plug Type	North America NEMA 1-15P	Continental Europe CEE 7XVI	United Kingdom BS 1363
	Connector	IEC320 C7	IEC320 C7	IEC320 C7
	Wire Size	18 AWG	0.75mm	0.75mm
	Temperature	60°C	70°C	70 °C
	Amperage Rating	10A	2.5A	5A
	Voltage Rating	125V	250V	250V
	Cable Length	72mm	1830mm	1830mm
Safety Approvals		CSA; UL	CEBEC; DEMKO; DVE; FIMKO; GOST; IMQ; KEMA; NEMKO; NF; OVE; SEMKO; SEV	BSI; Safety Mark
Photos				

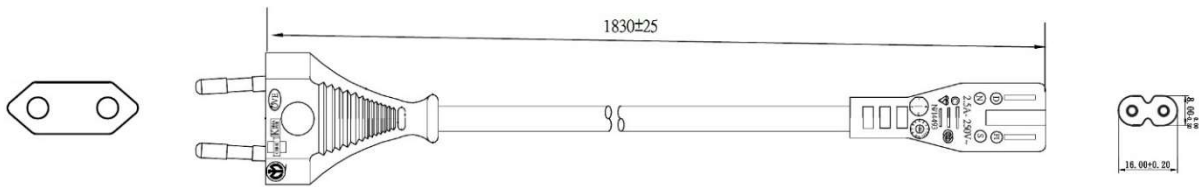


# Line Cords - Outline Drawings

**AC15WNA-R**



**AC15WEU-R**



**AC15WUK-R**

