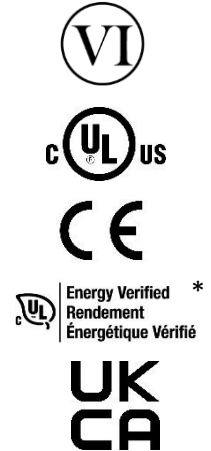




# 20-30W Desktop C14 Adapter Series



## 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

\*NRCan approval for PSAC30U-120L6-R, PSAC30U-240L6-R models only

Phihong Taiwan - No.568, Fuxing 3rd Rd., Guishan Dist., Taoyuan City (33383), Taiwan, ROC

Phihong USA - 47800 Fremont Blvd. Fremont, CA 94538, USA

Phihong Europe - Wattstraat 50, 2171 TR Sassenheim, The Netherlands



# 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		
	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	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		

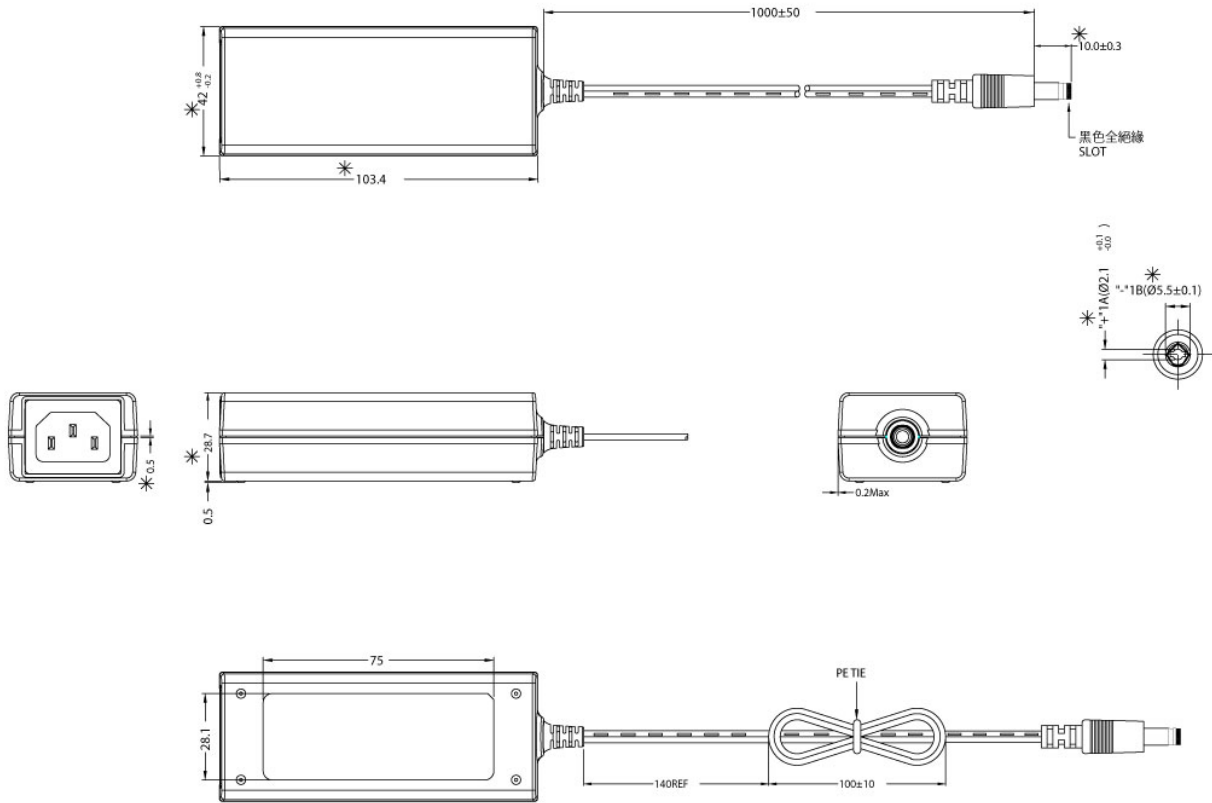
Model		PSAC30U-240L6-R <sup>2</sup>	PSAC30U-480L6-R <sup>2</sup>	PSAC30U-560L6-R <sup>2</sup>
Output	DC Output Voltage	24.0V	48.0V	56.0V
	Max Current	1.25A	0.625A	0.536A
	Output Power	30.0W	30.0W	30.016W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max) <sup>3</sup>	240mV	480mV	560mV
Input	AC Input 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>			

\*NRCan approval for PSAC30U-120L6-R, PSAC30U-240L6-R models only



# Outline Drawing

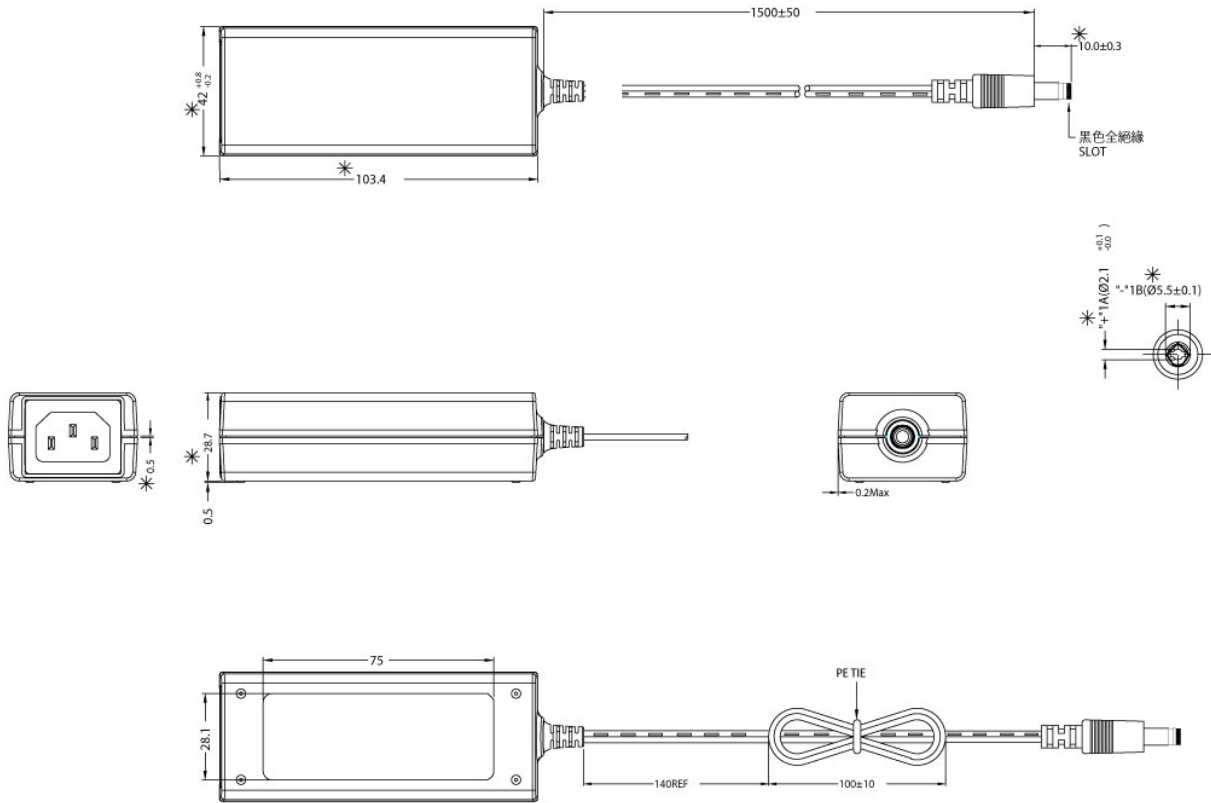
## PSAC30U-050L6-R, PSAC30U-090L6-R





# 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**

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

*This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*



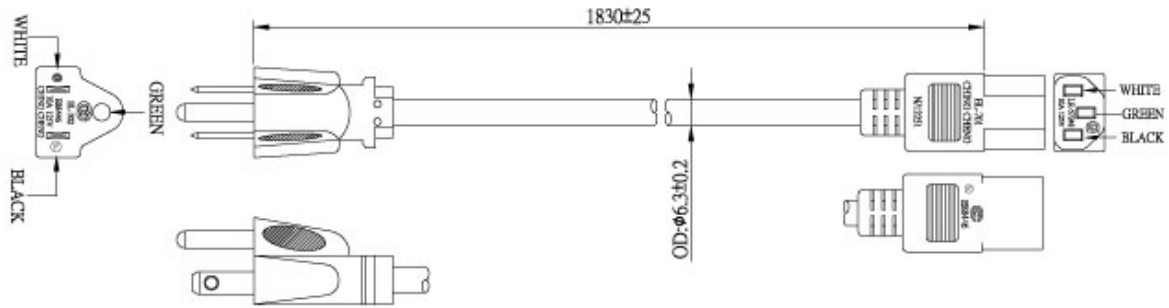
# Line Cords - Sold Separately

Model		AC30UNA-R	AC30UEU-R	AC30UUK-R
Specifications	Plug Type	North America NEMA 5-15P	Continental Europe CEE 7VIII	United Kingdom BS 1363
	Connector	IEC320 C13	IEC320 C13	IEC320 C13
	Wire Size	18 AWG	0.75mm	1.0mm
	Temperature	60°C	70°C	70 °C
	Amperage Rating	10A	6A	10A
	Voltage Rating	125V	250V	250V
	Cable Length	1830mm	1830mm	2500mm
Safety Approvals		CSA; UL	CEBEC; DEMKO; DVE; FIMKO; GOST; IMQ; KEMA; NEMKO; NF; OVE; SEMKO	BSI; Safety Mark
Photos				

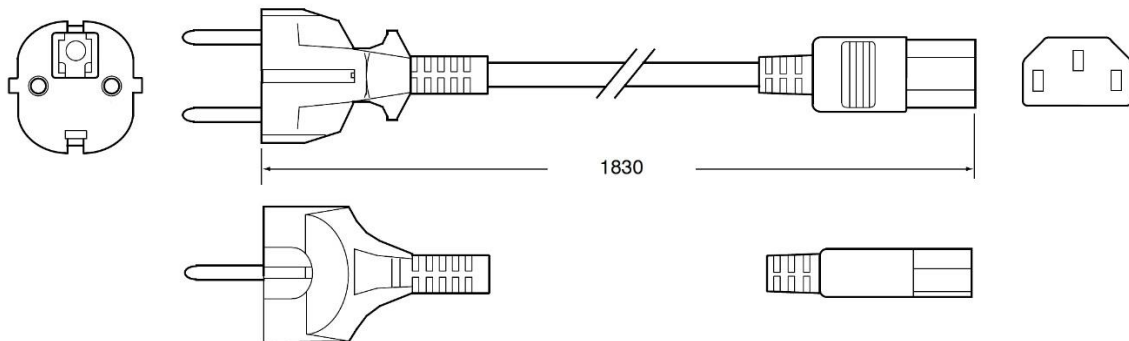


# Line Cords - Outline Drawings

## AC30UNA-R



## AC30UEU-R



## AC30UUK-R

