

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



PSAC30U Series Specifications¹

Dimensions (L x W x H) 103.4mm (4.07in) x 42mm (1.65in) x 28.7mm (1.13in)	Model		PSAC30U-090L6-R ²	*PSAC30U-120L6-R2	
Output Output Power 27.0W 30.0W Regulation ± 5% ± 5% Ripple & Noise P-P(max)³ 90mV 120mV Imput AC Input Voltage Range 90 to 264VAC AC Input Frequency 47 to 63Hz Inrush Current 0.84 (RMS) max 2120VAC, 0.54 (RMS) max @240VAC Inrush Current 60A max @100VAC, 100A max @240VAC No Load Power Consumption at 158VAC input 0.030W 0.0264W No Load Power Consumption at 158VAC input 0.030W 0.054W 115VAC Average Efficiency¹ 87.98% 88.88% 230VAC 10% Load Efficiency³ 82.30% 88.83% 230VAC 10% Load Efficiency³ 82.30% 83.98% Leakage Current 3.5mA max @254VAC, 50Hz Over-Voltage 15V max, Auto-restart 20V max, Auto-restart Protection Short Circuit Output can be shorted permanently without damage Environmental Non-Operating Temperature 0°C to +40°C Operating Temperature 0°C to +40°C Operating Temperature 10°C to +40°C Operating Humidity		DC Output Voltage	9.0V	12.0V	
Regulation	Output	Max Current	3.0A	2.5A	
Ripple & Noise P-P(max) ³ 90mV 120mV		Output Power	27.0W	30.0W	
AC Input Voltage Range		Regulation	± 5%	± 5%	
AC Input Frequency		Ripple & Noise P-P(max) ³	90mV	120mV	
AC Input Frequency		AC Input Voltage Range			
Inrush Current 60A max @100VAC, 100A max @240VAC			47 to 63Hz		
No Load Power Consumption at 115VAC Input No Load Power Consumption at 230VAC Input No Load Power Consumption at 230VAC Input No Load Power Consumption at 230VAC Input 115VAC Average Efficiency ⁴ 87.98% 88.88% 88.88% 230VAC Average Efficiency ⁴ 87.63% 88.83% 88.83% 230VAC 10% Load Efficiency ³ 82.30% 83.98% 88.88% 230VAC 10% Load Efficiency ³ 82.30% 83.98% 83.89		Input Current	0.8A (RMS) max @120VAC, 0.5A (RMS) max @240VAC		
At 115VAC Input		Inrush Current	60A max @100VAC, 100A max @240VAC		
at 230VAC Input	Input	No Load Power Consumption at 115VAC Input	0.030W	0.0264W	
230VAC Average Efficiency ⁴ 87.63% 88.83% 83.98% 230VAC 10% Load Efficiency ³ 82.30% 83.98% Leakage Current 3.5mA max @254VAC, 50Hz Over-Voltage 15V max, Auto-restart 20V max, Auto-restart Over-Current Output can be shorted permanently without damage Over-Current Auto restart Operating Temperature 0°C to +40°C Operating Temperature -20° to +75°C Operating Humidity 20 to +99% 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)/MMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated Harmonic Current Emissions IEC 61000-3-2 Immunity IEC 61000-4-3, IEC 61000-4-2 (+/- 8kV air, +/- 4kV contact), IEC 61000-4-3, IEC 61000-4-3, IEC 61000-4-1 Dimensions (L x W x H) 103.4mm (4.07in) x 42mm (1.65in) x 28.7mm (1.13in) Weight 175g Cable Length 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 18 AWG	·		0.060W	0.054W	
230VAC 10% Load Efficiency³ 82.30% 83.98% Leakage Current 3.5mA max @254VAC, 50Hz Over-Voltage 15V max, Auto-restart 20V max, Auto-restart Over-Current Output can be shorted permanently without damage			0.10071		
Leakage Current 3.5mA max @254VAC, 50Hz			0.13077		
Protection Over-Voltage 15V max, Auto-restart 20V max, Auto-restart Short Circuit Output can be shorted permanently without damage Over-Current Auto restart Operating Temperature 0°C to +40°C Non-Operating Temperature -20° to +75°C Operating Humidity 20 to +90% 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 55035/CISPR 35: IEC 61000-4-2 (+/- 8kV air, +/- 4kV contact), IEC 61000-4-3, IEC 61000-4-1 (IEC 61000-4-1), IEC 61000-4-1 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 1500mm DC Output Connector 2.1mm x 5.5mm x 10.0mm DC Plug Pin Assignment Inner (V+) / Outer GND (V-) <tr< th=""><th></th><th></th><th></th></tr<>					
Short Circuit Output can be shorted permanently without damage				·	
Dielectric Withstand (HI-POT) Primary to Secondary: >7M ohm for 500VDC	Protection			•	
Departing Temperature 0°C to +40°C			Output can be shorted permanently without damage		
Non-Operating Temperature			Auto restart		
Operating Humidity 20 to +90%	Environmental	Operating Temperature	0°C to +40°C		
Dielectric Withstand (HI-POT)		Non-Operating Temperature	-20° to +75°C		
Insulation Resistance		Operating Humidity	20 to +90%		
Standards CULus 60950-1, cULus 62368-1 IEC 60950-1,IEC 62368-1		Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA		
EMI Emissions		Insulation Resistance	Primary to Secondary: >7M ohm for 500VDC		
Approvals and EMC		Standards			
Voltage Fluctuations & Flicker IEC 61000-3-2	Approvals and	EMI Emissions			
Immunity	EMC	Harmonic Current Emissions	IEC 61000-3-2		
Immunity		Voltage Fluctuations & Flicker	IEC 61000-3-3		
Dimensions (L x W x H) 103.4mm (4.07in) x 42mm (1.65in) x 28.7mm (1.13in) Weight 175g Cable Length 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 18 AWG		Immunity	IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 2kV), IEC 61000-4-6,		
Mechanical Cable Length 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 18 AWG	Mechanical	Dimensions (L x W x H)			
Mechanical 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 18 AWG		Weight			
DC Plug Pin Assignment Inner (V+) / Outer GND (V-) Cable Wire Type 16 AWG 18 AWG		Cable Length	1000mm 1500mm		
Cable Wire Type 16 AWG 18 AWG		DC Output Connector	2.1mm x 5.5mm x 10.0mm		
		DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
1		Cable Wire Type	16 AWG	18 AWG	
Input Connector IEC 60320 C14		Input Connector	IEC 60320 C14		







Model		*PSAC30U-240L6-R ²	PSAC30U-480L6-R ²	PSAC30U-560L6-R ²
	DC Output Voltage	24.0V	48.0V	56.0V
Output	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) ³	240mV	480mV	560mV
	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		
In most	No Load Power Consumption	0.042W	0.050W	0.050W
Input	at 115VAC Input No Load Power Consumption			
	at 230VAC Input	0.070W	0.080W	0.090W
	115VAC Average Efficiency ⁴ 230VAC Average Efficiency ⁴	89.22% 89.19%	89.83% 89.10%	90.27% 89.18%
	230VAC 10% Load Efficiency ⁴	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		
	Operating Temperature	0°C to +40°C		
Environmental	Non-Operating Temperature	-20° to +75°C		
	Operating Humidity	20 to +90%		
	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		
Safety	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated		
Approvals and EMC	Harmonic Current Emissions	IEC 61000-3-2		
	Voltage Fluctuations & Flicker	IEC 61000-3-3		
	Immunity	EN 55035/CISPR 35: 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	140g		
Mechanical	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	 The specifications defined are at ambient temperature of 25°C, unless otherwise specified. Special order MOQ 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). Efficiency is measured after 30 minutes burn-in. 			

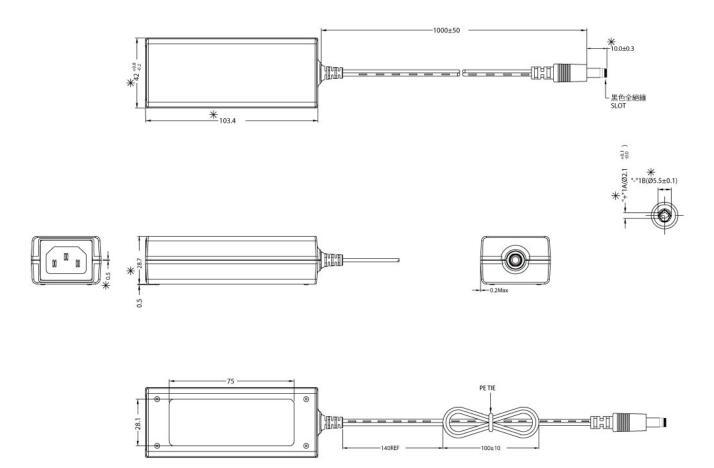








Outline Drawing PSAC30U-050L6-R, PSAC30U-090L6-R



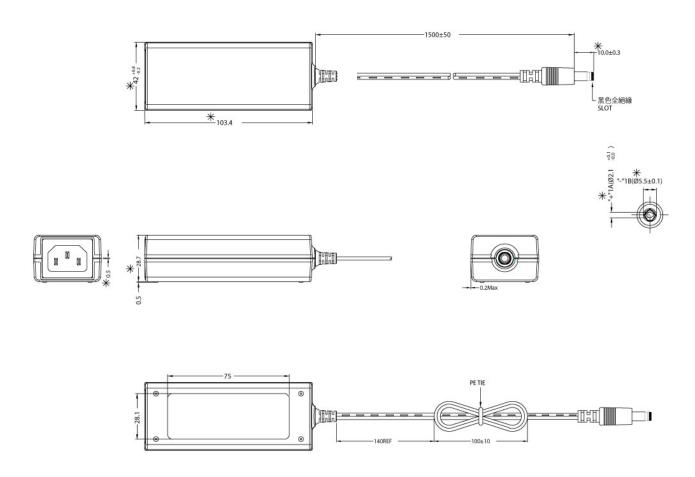








Outline Drawing PSAC30U-120L6-R, PSAC30U-240L6-R, PSAC30U-480L6-R, PSAC30U-560L6-R











Line Cords - Sold Separately

Model		AC30UNA-R	AC30UEU-R	AC30UUK-R
	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
Specifications	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				

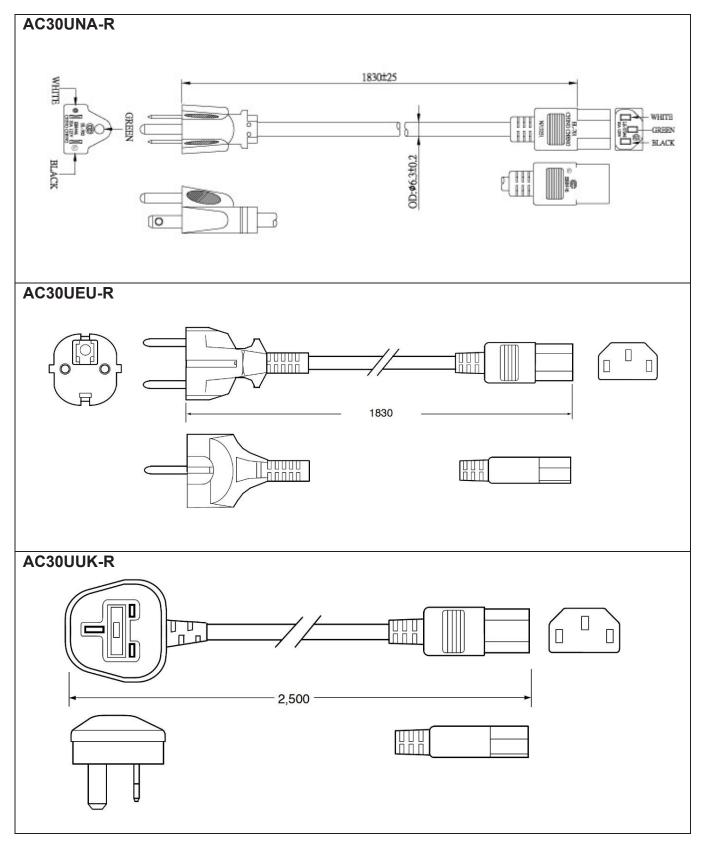








Line Cords - Outline Drawings



Revised 2/28/2023





