



15W Desktop C8 Adapter Series



Features

- $\leq 0.25\text{mA}$ leakage current
- US DoE Level VI Efficiency Compliance
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- EU CoC Ver 5 Tier 2 Compliance
- Compact Size
- Class B EMI

Applications

- Portable Equipment
- Lower-Power Computers
- Peripherals and Terminals
- Networking



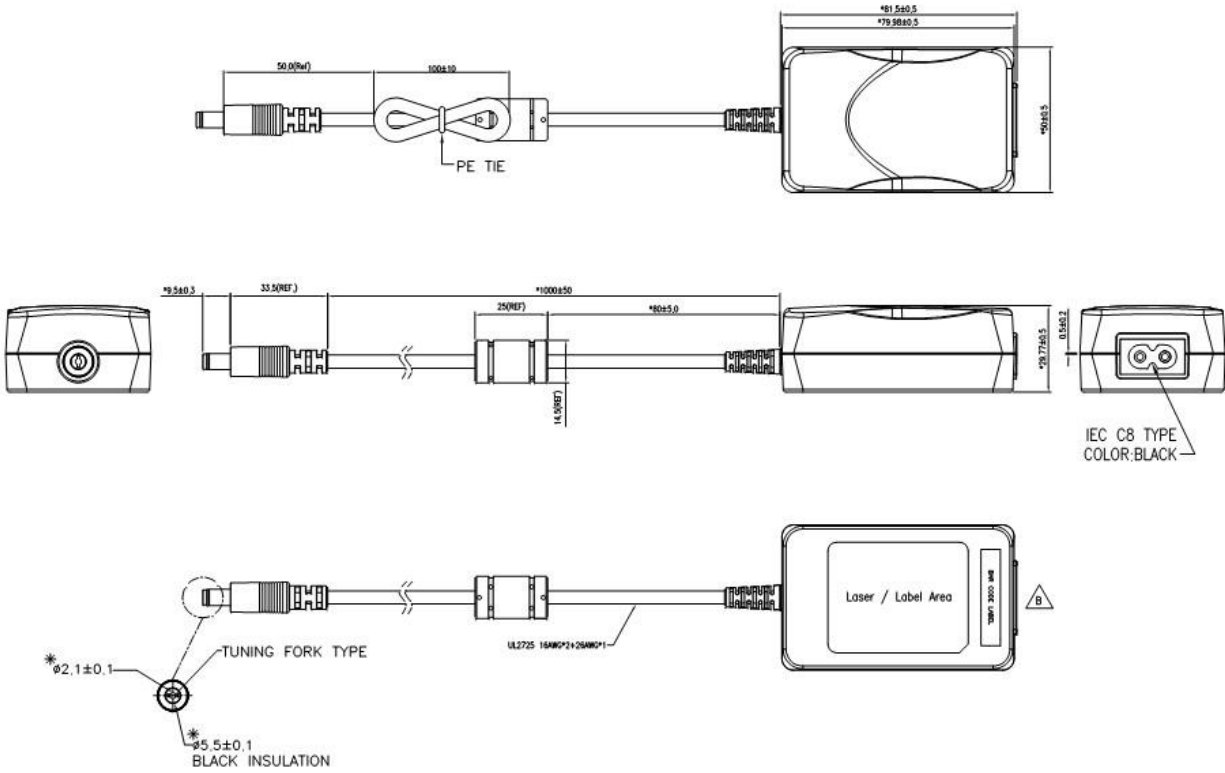
PSAA15W Series Specifications¹

Model		PSAA15W-050L6 ²	PSAA15W-120L6 ²	PSAA15W-180L6 ²
Output	DC Output Voltage	5.0V	12.0V	18.0V
	Max Current	3.0A	1.25A	0.83A
	Output Power	15.0W	15.0W	14.94W
	Regulation	± 5%	± 5%	± 5%
	Ripple & Noise P-P(max) ³	70mV	120mV	180mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.5A max at 120VAC; 0.25A max at 240VAC		
	Inrush Current	40A max., 120VAC; 60A max., 240VAC (Cold Start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.025W	0.045W	0.033W
	No Load Power Consumption at 230VAC Input	0.051W	0.073W	0.051W
	115VAC Average Efficiency ⁴	82.80%	85.10%	86.70%
	230VAC Average Efficiency ⁴	82.20%	85.10%	86.60%
	230VAC 10% Load Efficiency ⁴	75.90%	75.10%	76.10%
	Leakage Current	0.25mA max		
Protection	Over-Voltage	10VDC max at full load	16.8VDC max at full load	27VDC max at full load
	Short Circuit	Output can be shorted permanently without damage		
	Over-Current	Short circuit. 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: 5M ohm for 500VDC		
	Standards	cULus 60950-1, cULus 62368-1 (except 48V model), IEC 60950-1, IEC 62368-1 (except 48V model)		
	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 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimensions (L x W x H)	81.5mm (3.21in) x 50mm (1.96in) x 29.8mm (1.17in)		
	Weight	140g		
	Cable Length	1000mm	1500mm	1500mm
	DC Output Connector	2.1mm x 5.5mm x 9.5mm		
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
	Input Connector	IEC 60320 C8		

Model		PSAA15W-240L6-R ²	PSAA15W-480L6-R ²
Output	DC Output Voltage	24.0V	48.0V
	Max Current	0.625A	0.31A
	Output Power	15.0W	14.88W
	Regulation	± 5%	± 5%
	Ripple & Noise P-P(max) ³	240mV	480mV
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.5A max at 120VAC; 0.25A max at 240VAC	
	Inrush Current	40A max., 120VAC; 60A max., 240VAC (Cold Start at ambient 25°C, full load)	
	No Load Power Consumption at 115VAC Input	0.046W	0.040W
	No Load Power Consumption at 230VAC Input	0.072W	0.056W
	115VAC Average Efficiency ⁴	87.2%	88.40%
	230VAC Average Efficiency ⁴	87.3%	88.40%
	230VAC 10% Load Efficiency ⁴	75.2%	78.1%
	Leakage Current	0.25mA max	
Protection	Over-Voltage	33.6VDC max at full load	67.2VDC max at full load
	Short Circuit	Output can be shorted permanently without damage	
	Over-Current	Short circuit. Auto restart	Short circuit. 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: 5M ohm for 500VDC	
	Standards	cULus 60950-1, cULus 62368-1 (except 48V model), IEC 60950-1, IEC 62368-1 (except 48V model)	
	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 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	
Mechanical	Dimensions (L x W x H)	81.5mm (3.21in) x 50mm (1.96in) x 29.8mm (1.17in)	
	Weight	140g	
	Cable Length	1500mm	
	DC Output Connector	2.1mm x 5.5mm x 9.5mm	
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)	
	Input Connector	IEC 60320 C8	
Notes	<ol style="list-style-type: none"> The specifications defined are at ambient temperature of 25C, unless otherwise specified. Not recommended for new designs (NRND). Minimum order quantity applies. 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. 		



PSAA15W 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

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.



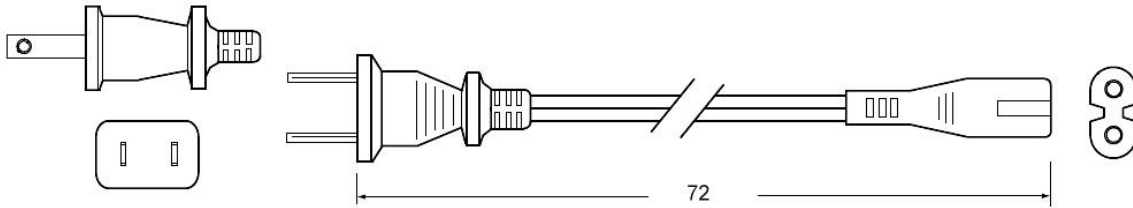
Line Cords - Sold Separately

Model		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				

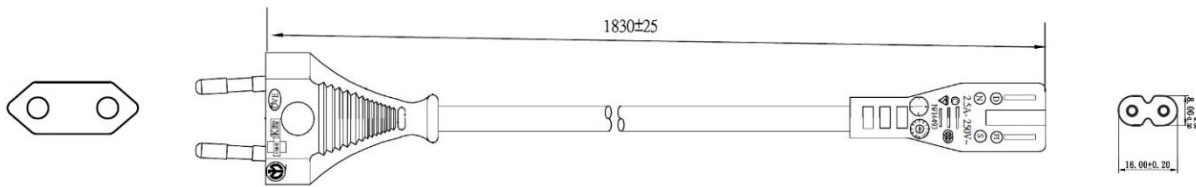


Line Cords - Outline Drawings

AC15WNA-R



AC15WEU-R



AC15WUK-R

