



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



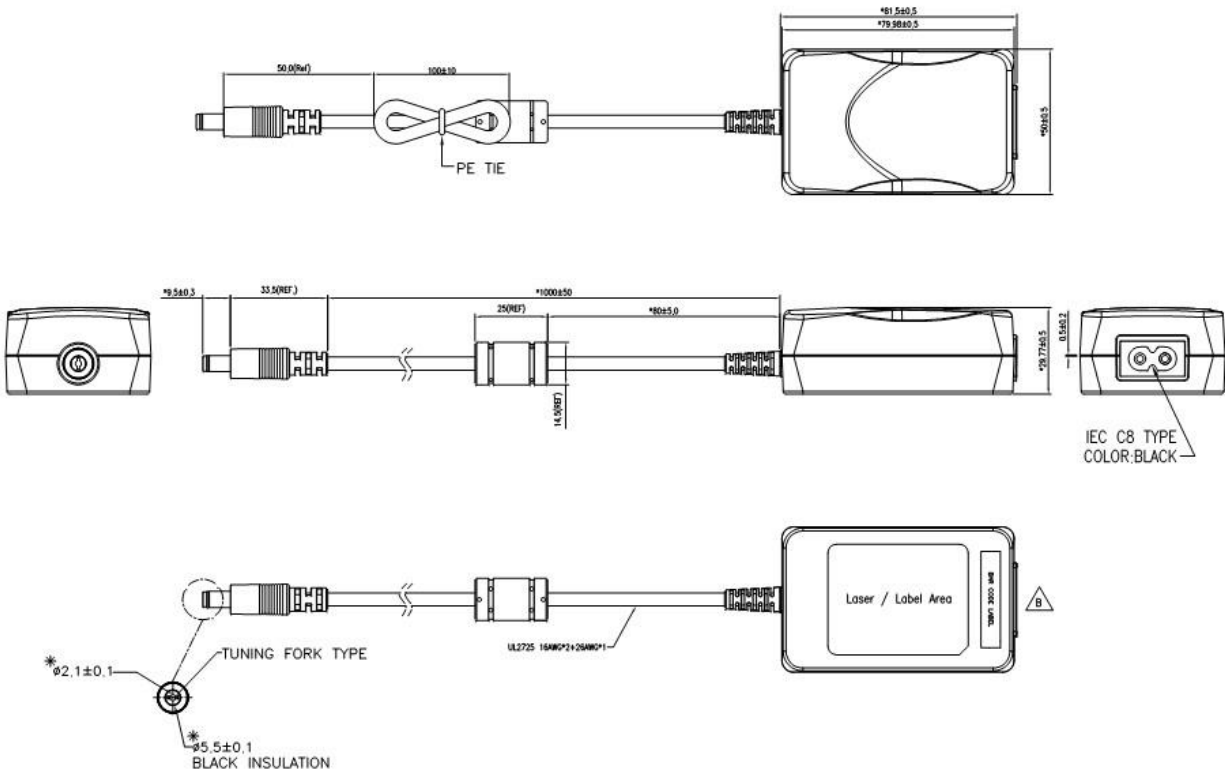
PSAA15W Series Specifications¹

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	1. The specifications defined are at ambient temperature of 25C, unless otherwise specified. 2. Not recommended for new designs (NRND). Minimum order quantity applies. 3. 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). 4. Efficiency is measured after 30 minutes burn-in.		



PSAA15W Outline Drawing








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

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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.



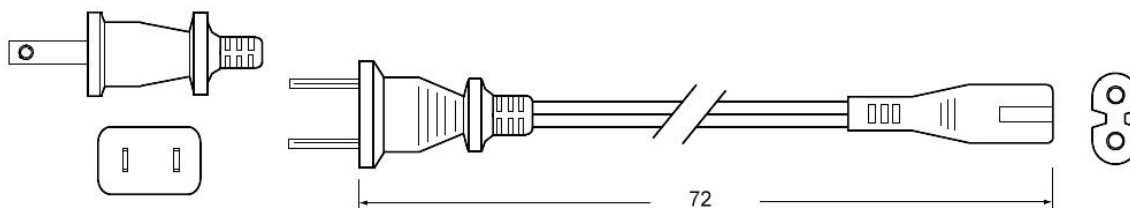
Line Cords - Sold Separately

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				

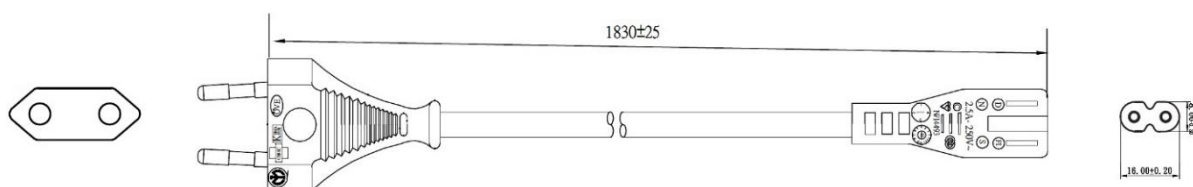


Line Cords - Outline Drawings

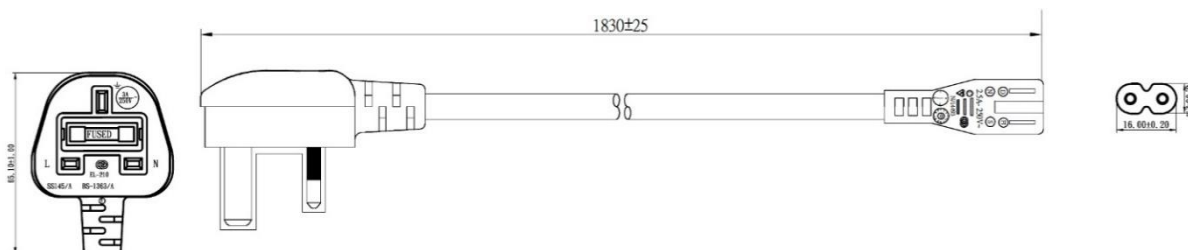
AC15WNA-R



AC15WEU-R



AC15WUK-R



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