

45W Desktop C8 Adapter Series







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Features

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

Applications

- Portable Equipment
- Gaming Machines
- Notebook Computers
- Networking



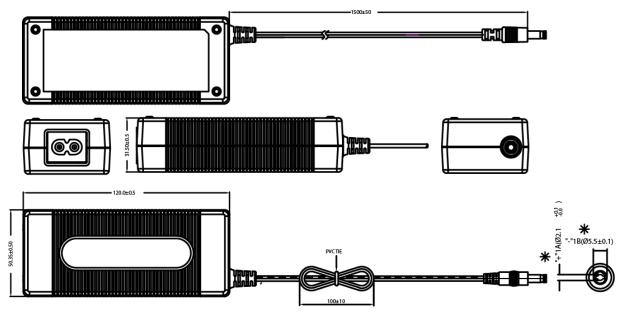
PSAC45W Series Specifications¹

	Model	PSAC45W-120-R ²	PSAC45W-180-R ²	PSAC45W-240-R ²
Output	DC Output Voltage	12.0V	18.0V	24.0V
	Max Current	3.75A	2.5A	1.875A
	Output Power	45.0W	45.0W	45.0W
	Regulation	±5%	±5%	±5%
	Ripple & Noise P-P(max) ³	150mV	180mV	240mV
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	1.2A (RMS) max @120VAC		
	Inrush Current	120A max., 264VAC (Cold Start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.048W	0.070W	0.064W
	No Load Power Consumption at 230VAC Input	0.084W	0.090W	0.095W
	115VAC Average Efficiency ⁴	88.27%	89.06%	88.83%
	230VAC Average Efficiency ⁴	88.78%	88.65%	89.08%
	230VAC 10% Load Efficiency⁴	86.88%	86.48%	85.67%
	Leakage Current	0.25mA max		
	Over-Voltage	20V max	35V max	35V max
Protection	Short Circuit	Output can be shorted permanently without damage		
	Over-Current	6.0A max, Auto restart	4.25A max, Auto restart	3.2A max, Auto restart
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-20° to +70°C		
	Operating Humidity	5 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, IEC 60950-1		
Safety Approvals and	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated		
EMC	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		
	Dimensions (L x W x H)	120mm (4.72in) x 50mm (1.97in) x 31.5mm (1.27in)		
	Weight	250g		
	Cable Length	1500mm		
Mechanical	Output Cable Type	18 AWG	20 AWG	22 AWG
	DC Output Connector	2.1mm x 5.5mm x 10.0mm		
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
	Input Connector	IEC 60320 C8		

Model		PSAC45W-480-R ²	PSAC45W-560-R ²	
Output	DC Output Voltage	48.0V	56.0V	
	Max Current	0.9375A	0.804A	
	Output Power	45.0W	45.024W	
	Regulation	±5%	±5%	
	Ripple & Noise P-P(max) ³	480mV	560mV	
	AC Input Voltage Range	90 to 26	64VAC	
	AC Input Frequency	47 to 63Hz		
	Input Current	1.2A (RMS) max @120VAC		
	Inrush Current	120A max., 120VAC (Cold Start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.062W	0.067W	
Input	No Load Power Consumption at 230VAC Input	0.092W	0.094W	
	115VAC Average Efficiency ⁴	90.22%	91.21%	
	230VAC Average Efficiency ⁴	90.59%	91.16%	
	230VAC 10% Load Efficiency ⁴	85.96%	85.99%	
	Leakage Current	0.25mA max		
	Over-Voltage	63V max	70V max	
Protection	Short Circuit	Output can be shorted permanently without damage		
	Over-Current	1.6A max, Auto restart	1.42A max, Auto restart	
	Operating Temperature	0°C to +40°C		
Environmental	Non-Operating Temperature	-20° to +70°C		
	Operating Humidity	5 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, IEC 60950-1		
Safety Approvals and	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated		
EMC	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		
	Dimensions (L x W x H)	120.00mm (4.72in) x 50.35mm (1.98in) x 31.4mm (1.24in)		
Mechanical	Weight	250g		
	Cable Length	1500mm		
	Output Cable Type	24 AWG		
	DC Output Connector	2.1mm x 5.5mm x 10.0mm		
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)		
	Input Connector	IEC 60320 C8		
Notes	 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. 			



PSAC45W 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.

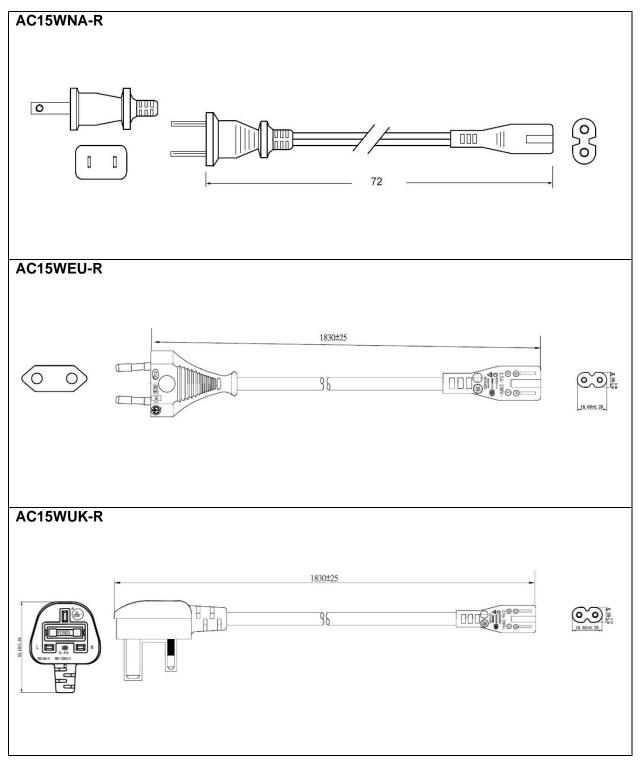


Line Cords - Sold Separately

Model		AC15WNA-R	AC15WEU-R	AC15WUK-R
	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
Specifications	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



Mouser Electronics

Authorized Distributor

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Phihong:

PSAC45W-180-R PSAC45W-480-R PSAC45W-560-R PSAC45W-120-R PSAC45W-240-R