

18W Desktop C8 Adapter Series



Features

- DOE Level VI Efficiency Compliant
- ErP/Ecodesign Directive 2009/125/EC Regulation EU 2019/1782 Compliant
- EU CoC Tier 2 Compliant (except 5V, 5.9V, 10V, 11V models)
- Over Voltage, Short Circuit and Over Current Protection
- Non-Vented/Spill-Proof Case
- Class B EMI

Applications

- Networking
- Peripherals
- Consumer Electronics



PPL18W Series Specifications¹

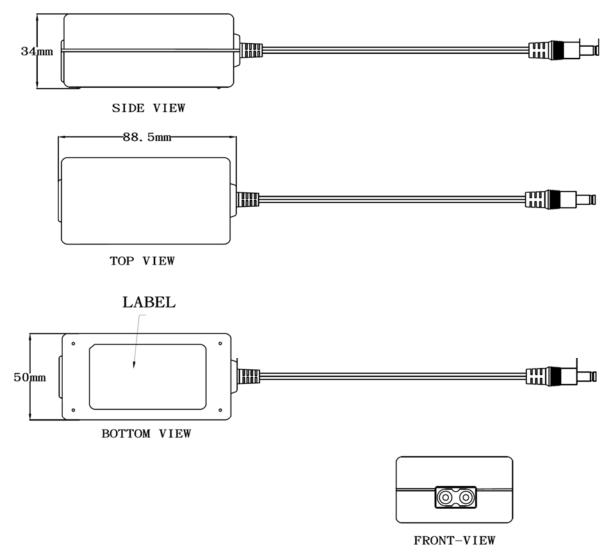
	Model	PPL18W-050L6	PPL18W-060L6	PPL18W-070	PPL18W-075	
Output	DC Output Voltage	5.0V	5.9V	7.0V	7.5V	
	Max Current	3.0A	3.0A	2.5A	2.5A	
	Output Power	15.0W	17.7W	17.5W	18.75W	
	Regulation	± 6%	-3.4/+6.8%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	100mV	100mV	100mV	100mV	
Input	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	0.4A max				
	Inrush Current	50A max., 100VAC; 60A max., 230VAC (Cold Start at ambient 25°C, full load)				
	No Load Power Consumption at 115VAC Input	0.35W	0.045W	0.040W	0.043W	
	No Load Power Consumption at 230VAC Input	0.051W	0.056W	0.047W	0.053W	
	115VAC Average Efficiency ³	82.0%	82.6%	86.1%	86.3%	
	230VAC Average Efficiency ³	81.8%	83.3%	86.1%	86.4%	
	230VAC 10% Load Efficiency ³	76.0%	76.5%	83.5%	83.4%	
	Leakage Current	<3.5A				
	Over-Voltage	12V max	12V max	16V max	16V max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	7A max	6A max	6A max	6A max	
	Operating Temperature	0°C to +40°C				
Environmental	Non-Operating Temperature	-20° to +80°C				
	Operating Humidity	20 to +80%				
	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA				
	Insulation Resistance	Primary to Secondary: 10M ohm for 500VDC				
Safety	Standards	cULus 62368-1, IEC 62368-1				
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, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11				
	Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.3in)				
	Weight	170g				
Mechanical	Cable Length	1500mm				
	DC Cable Type	18 AWG	18 AWG	18 AWG	18 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		PPL18W-090	PPL18W-100L6	PPL18W-110L6	PPL18W-120	
Output	DC Output Voltage	9.0V	10.0V	11.0V	12.0V	
	Max Current	2.2A	1.9V	1.6A	1.6A	
	Output Power	19.8W	19.0W	17.6W	19.2W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	100mV	100mV	110mV	120mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	0.4A max				
	Inrush Current	50A max., 100VAC; 60A max., 230VAC				
	No Load Power Consumption at 115VAC Input	0.039W	0.038W	0.041W	0.045W	
Input	No Load Power Consumption at 230VAC Input	0.055W	0.067W	0.065W	0.064W	
	115VAC Average Efficiency ³	86.3%	86.2%	85.8%	86.2%	
	230VAC Average Efficiency ³	86.7%	85.7%	85.6%	86.4%	
	230VAC 10% Load Efficiency ³	80.3%	82.0%	81.0%	80.3%	
	Leakage Current		<3	.5A		
	Over-Voltage	16V max	22V max	22V max	22V max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	5A max	5A max	5A max	5A max	
	Operating Temperature	0°C to +40°C				
Environmental	Non-Operating Temperature	-20° to +80°C				
	Operating Humidity	20 to +80%				
	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA				
	Insulation Resistance	Primary to Secondary: 10M ohm for 500VDC				
Cafatu	Standards	cULus 62368-1, IEC 62368-1				
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, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11				
	Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.3in)				
	Weight	170g				
Mechanical	Cable Length	1500mm				
	DC Cable Type	18 AWG	22 AWG	22 AWG	20 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	PPL18W-150	PPL18W-160	PPL18W-180	PPL18W-240	
Output	DC Output Voltage	15.0V	16.0V	18.0V	24.0V	
	Max Current	1.3A	1.2A	1.1A	0.8A	
	Output Power	19.5W	19.2W	19.8W	19.2W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	150mV	160mV	180mV	240mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	0.4A max				
	Inrush Current	50A max., 100VAC; 60A max., 230VAC				
	No Load Power Consumption at 115VAC Input	0.036W	0.035W	0.045W	0.036W	
Input	No Load Power Consumption at 230VAC Input	0.055W	0.066W	0.064W	0.057W	
	115VAC Average Efficiency ³	87.4%	87.8%	88.1%	88.9%	
	230VAC Average Efficiency ³	87.1%	87.4%	88.4%	88.7%	
	230VAC 10% Load Efficiency ³	82.7%	82.5%	81.9%	81.8%	
	Leakage Current		<3	.5A		
	Over-Voltage	32V max	32V max	32V max	45V max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	4A max	4A max	4A max	2.5A max	
	Operating Temperature	0°C to +40°C				
Environmental	Non-Operating Temperature	-20° to +80°C				
	Operating Humidity	20 to +80%				
	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA				
	Insulation Resistance	Primary to Secondary: 10M ohm for 500VDC				
Safatu	Standards	cULus 62368-1, IEC 62368-1				
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, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11				
	Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.3in)				
	Weight	170g				
	Cable Length	1500mm				
Mechanical	DC Cable Type	22 AWG	22 AWG	22 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				
Notes	 The specifications defined are at ambient temperature of 25C, unless otherwise specified. 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. 					



PPL18W Outline Drawing



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

PPL18W-050L6
PPL18W-060L6
PPL18W-070
PPL18W-075
PPL18W-100L6
PPL18W-110L6
PPL18W-150
PPL18W-150
PPL18W-160
PPL18W-180
PPL18W-240

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NOTE: This model has/The models in this product series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.



PPL18W 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				



PPL18W Line Cords Outline Drawings

