

36W 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 12V model)
- Over Voltage, Short Circuit and Over Current Protection
- Non-Vented/Spill-Proof Case
- Class B EMI

Applications

- Networking
- Peripherals
- Consumer Electronics



PPL36W Series Specifications¹

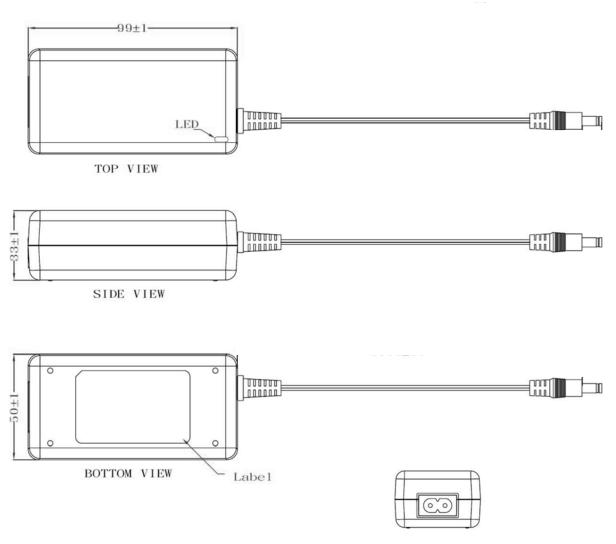
	Model	PPL36W-050	PPL36W-075	PPL36W-085	PPL36W-090	
	DC Output Voltage	5.0V	7.5V	8.5V	9.0V	
	Max Current	5.0A	4.0A	3.52A	3.34A	
Output	Output Power	25.0W	30.0W	29.92W	30.06W	
	Regulation	± 6%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	80mV	75mV	85mV	90mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.0A max				
	Inrush Current	70A max., 230VAC (Cold Start at ambient 25°C)				
Input	No Load Power Consumption at 115VAC Input	0.056W	0.035W	0.058W	0.042W	
	No Load Power Consumption at 230VAC Input	0.076W	0.062W	0.08W	0.059W	
	115VAC Average Efficiency ³	86.5%	89.1%	88.6%	89.1%	
	230VAC Average Efficiency ³	86.4%	89.0%	88.7%	89.1%	
	230VAC 10% Load Efficiency ³	80.1%	85.0%	84.8%	82.9%	
	Leakage Current	<0.25mA				
	Over-Voltage	180% max	180% max	180% max	180% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	200% max	200% max	200% max	200% max	
Environmental	Operating Temperature	0°C to +40°C				
	Non-Operating Temperature	-20º to +80ºC				
	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				
Safetv	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)	99mm (3.90in) x 50mm (1.97in) x 33mm (1.30in)				
	Weight	170g				
	Cable Length	1000mm		1500mm		
Mechanical	DC Cable Type	16 AWG	16 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	PPL36W-120L6	PPL36W-135	PPL36W-150	PPL36W-160	
Output	DC Output Voltage	12.0V	13.5V	15.0V	16.0V	
	Max Current	3.0A	2.66A	2.4A	2.25A	
	Output Power	36.0W	35.91W	36.0W	36.0W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	120mV	135mV	150mV	160mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.0A max				
	Inrush Current	70A max., 230VAC (Cold Start at ambient 25°C)				
	No Load Power Consumption at 115VAC Input	0.032W	0.038W	0.045W	0.043W	
Input	No Load Power Consumption at 230VAC Input	0.054W	0.064W	0.066W	0.07W	
	115VAC Average Efficiency ³	87.6%	88.4%	88.5%	88.1%	
	230VAC Average Efficiency ³	87.9%	88.4%	88.6%	88.4%	
	230VAC 10% Load Efficiency ³	84.9%	84.7%	84.4%	84.6%	
	Leakage Current	<0.25mA				
	Over-Voltage	180% max	180% max	180% max	180% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	170% max	200% max	200% max	200% max	
	Operating Temperature	0°C to +40°C				
Environmental	Non-Operating Temperature	-20° to +80°C				
1	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				
Safetv	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)	99mm (3.90in) x 50mm (1.97in) x 33mm (1.3in)				
Mechanical	Weight	170g				
	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				

PPL36W	N-240	PPL36W-480		
24.0)V	48.0V		
1.5A	A	0.75A		
36.0\	W	36.0W		
± 5%	%	± 5%		
240m	nV	480mV		
90 to 264VAC				
47 to 63Hz				
1.0A max				
70A max., 230VAC (Cold Start at ambient 25°C)				
0.046	6W	0.058W		
0.064	4W	0.074W		
89.29	2%	90.2%		
89.39	9%	89.8%		
83.69	6%	83.5%		
<0.25mA				
180% r	max	180% max		
Auto-recover after short-circuit fault is removed				
200% r	max	200% max		
0°C to +40°C				
-20° to +80°C				
20 to +80%				
Primary to Secondary: 3000VAC for 1min, 10mA				
Primary to Secondary: 10M ohm for 500VDC				
cULus 62368-1, IEC 62368-1				
FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated				
IEC 61000-3-2				
IEC 61000-3-3				
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				
99mm (3.90in) x 50mm (1.97in) x 33mm (1.3in)				
170g				
1500mm				
20 AV	NG	22 AWG		
2.1mm x 5.5mm x 10.0mm				
Inner (V+) / Outer GND (V-)				
IEC 60320 C8				
IE(, C 603 specifie	, (,		



PPL36W Outline Drawing



FRONT-VIEW

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

PPL36W-050 PPL36W-075 PPL36W-085 PPL36W-120L6 PPL36W-120L6 PPL36W-150 PPL36W-160 PPL36W-160 PPL36W-180 PPL36W-240 PPL36W-480

Phihong USA Corporation 47800 Fremont Boulevard Fremont, CA 94538 Telephone: (510) 445-0100 www.phihong.com

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.



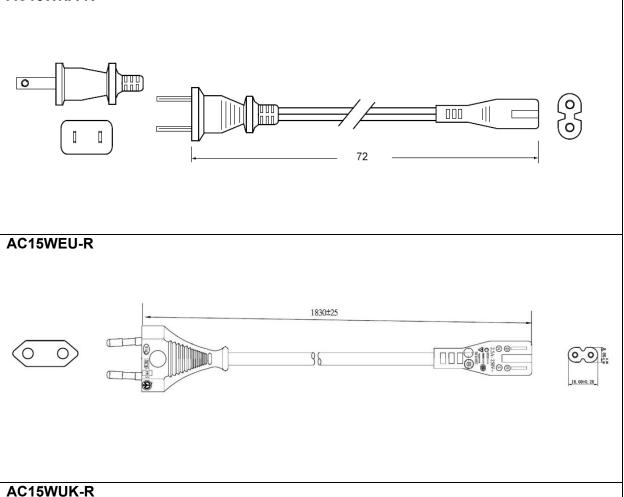
PPL36W Line Cords Sold Separately

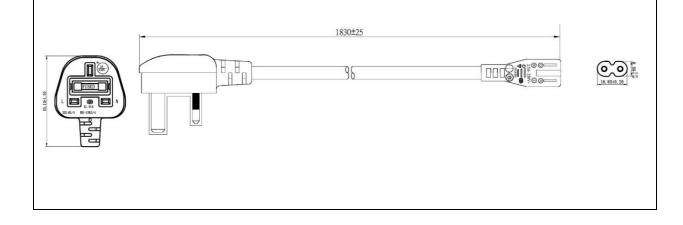
Model		AC15WNA-R	AC15WEU-R	AC15WUK-R
	Plug Type	North America NEMA 1-15P	Continental Europe CEE 7XVI	United Kingdom BS 1363
	Connector	IEC320 C7	IEC320 C7	IEC320 C7
	Wire Size	18 AWG	0.75mm	0.75mm
Specifications	Temperature	60°C	70°C	70 °C
	Amperage Rating	10A	2.5A	5A
	Voltage Rating	125V	250V	250V
	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				
			5. 0	



PPL36W Line Cords Outline Drawings

AC15WNA-R





Phihong is not responsible for any error and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information. Revised 4/2/2020