

65W 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
- Over Voltage, Short Circuit and Over Current Protection
- Non-Vented/Spill-Proof Case
- Class B EMI

Applications

- Networking
- Peripherals
- Consumer Electronics



PPL65W Series Specifications¹

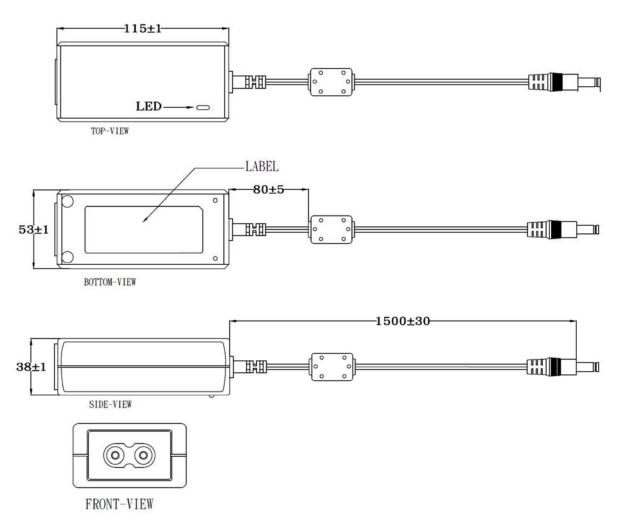
	Model	PPL65W-120	PPL65W-135	PPL65W-150	PPL65W-160	
Output	DC Output Voltage	12.0V	13.5V	15.0V	16.0V	
	Max Current	5.0A	4.82A	4.34A	4.07A	
	Output Power	60.0W	65.1W	65.1W	65.12W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	120mV	135mV	150mV	160mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.4A max				
	Inrush Current	80A max., 240VAC (Cold Start at ambient 25°C, full load)				
Input	No Load Power Consumption at 115VAC Input	0.031W	0.04W	0.037W	0.05W	
	No Load Power Consumption at 230VAC Input	0.034W	0.06W	0.031W	0.06W	
	115VAC Average Efficiency ³	88.4%	89.1%	89.5%	89.4%	
	230VAC Average Efficiency ³	89.1%	90.0%	90.3%	89.8%	
	230VAC 10% Load Efficiency ³	87.4%	86.6%	87.7%	86.8%	
	Leakage Current		<0.25	5mA		
	Over-Voltage	150% max	150% max	150% max	150% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	180% max	180% max	180% max	180% 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				
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)	115mm (4.53in) x 53mm (2.09in) x 38mm (1.50in)				
	Weight	310g				
Mechanical	Cable Length	1500mm				
	DC Cable Type	16 AWG	16 AWG	16 AWG	16 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		PPL65W-180	PPL65W-190	PPL65W-200	PPL65W-240	
Output	DC Output Voltage	18.0V	19.0V	20.0V	24.0V	
	Max Current	3.62A	3.43A	3.25A	2.71A	
	Output Power	65.2W	65.2W	65.0W	65.04W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	180mV	190mV	200mV	240mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.4A max				
	Inrush Current	80A max., 240VAC (Cold Start at ambient 25°C, full load)				
	No Load Power Consumption at 115VAC Input	0.033W	0.035W	0.05W	0.044W	
Input	No Load Power Consumption at 230VAC Input	0.033W	0.034W	0.07W	0.043W	
	115VAC Average Efficiency ³	88.7%	88.5%	88.9%	89.7%	
	230VAC Average Efficiency ³	89.6%	89.4%	89.4%	90.3%	
	230VAC 10% Load Efficiency ³	87.6%	87.4%	87.4%	87.4%	
	Leakage Current	<0.25mA				
	Over-Voltage	150% max	150% max	150% max	150% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	180% max	180% max	180% max	180% 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)	115mm (4.53in) x 53mm (2.09in) x 38mm (1.50in)				
Mechanical	Weight	310g				
	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	PPL65W-300	PPL65W-320	PPL65W-480	PPL65W-560	
Output	DC Output Voltage	30.0V	32.0V	48.0V	30.0V	
	Max Current	2.17A	2.04A	1.36A	2.17A	
	Output Power	65.1W	65.3W	65.3W	65.1W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	300mV	320mV	480mV	560mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.4A max				
	Inrush Current	80A max., 240VAC (Cold Start at ambient 25°C, full load)				
	No Load Power Consumption at 115VAC Input	0.07W	0.07W	0.075W	0.091W	
Input	No Load Power Consumption at 230VAC Input	0.08W	0.08W	0.071W	0.089W	
	115VAC Average Efficiency ³	88.9%	89.2%	90.4%	90.7%	
	230VAC Average Efficiency ³	89.5%	89.9%	91.1%	91.3%	
	230VAC 10% Load Efficiency ³	87.2%	87.8%	87.4%	87.0%	
	Leakage Current		<0.2	5mA		
	Over-Voltage	150% max	150% max	150% max	150% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	180% max	180% max	180% max	180% 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				
0-5-6-	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)	115mm (4.53in) x 53mm (2.09in) x 38mm (1.50in)				
	Weight	310g				
	Cable Length	1500mm				
Mechanical	DC Cable Type	18 AWG	18 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	20MHz bandwidth frequency oscillos terminals (nominal line voltage, full legals)	 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). 				



PPL65W Outline Drawing



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

PPL65W-120 PPL65W-135 PPL65W-150 PPL65W-160 PPL65W-190 PPL65W-200 PPL65W-240 PPL65W-300 PPL65W-320 PPL65W-480 PPL65W-560

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.



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	1830mm	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

