



Features

- DOE Level VI Efficiency Compliant
- ErP/Ecodesign Directive 2009/125/EC Regulation EU 2019/1782 Compliant
- Over Voltage, Short Circuit and Over Current Protection
- Non-Vented/Spill-Proof Case
- Class B EMI

Applications

- Networking
- Peripherals
- Consumer Electronics



PPL200U Series Specifications¹

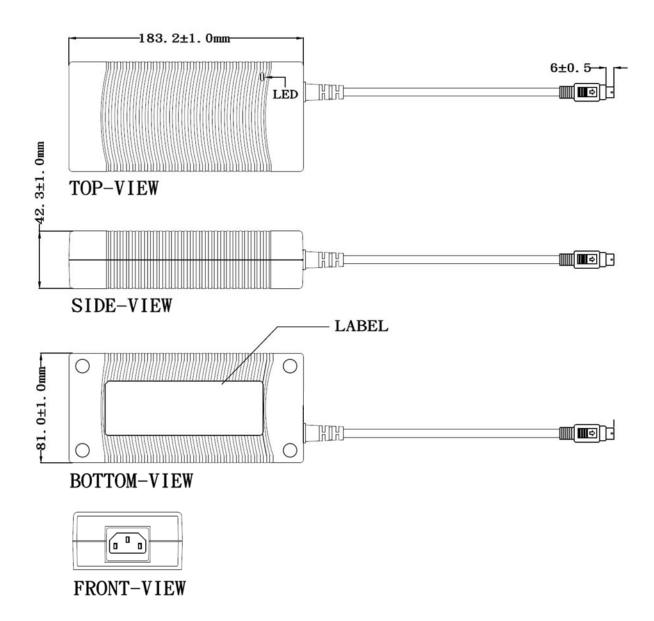
	Model	PPL200U-120	PPL200U-135	PPL200U-190	PPL200U-240	
Output	DC Output Voltage	12.0V	13.5V	19.0V	24.0V	
	Max Current	16.0A	14.0A	10.5A	8.3A	
	Output Power	192.0W	189.0W	199.5W	199.2W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	150mV	200mV	190mV	240mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	2.8A max				
	Inrush Current	100A max., 240VAC (Cold start at ambient 25°C, full load)				
Input	No Load Power Consumption at 115VAC Input	0.133W	0.13W	0.129W	0.129W	
	No Load Power Consumption at 230VAC Input	0.137W	0.14W	0.141W	0.137W	
	115VAC Average Efficiency ³	89.8%	90.3%	89.7%	91.4%	
	230VAC Average Efficiency ³	91.1%	91.3%	90.8%	92.0%	
	230VAC 10% Load Efficiency ³	85.3%	80.3%	83.1%	86.0%	
	Leakage Current	<3.5mA				
	Over-Voltage	150% max	150% max	150% max	150% max	
Protection	Short Circuit	Shutdown				
	Over-Current	150% max	150% max	150% max	150% max	
Environmental	Operating Temperature	0°C to +40°C				
	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				
	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				
Mechanical	Dimensions (L x W x H)	183.2mm (7.21in) x 81mm (3.19in) x 42.3mm (1.67in)				
	Weight	820g				
	Cable Length	1200mm 1500mm				
	DC Cable Type	16AWG*4C				
	DC Output Connector	4 pin DIN				
	DC Plug Pin Assignment	P1(+); P2(+); P3(-); P4(-)				
	Input Connector	IEC 60320 C14				

	Model	PPL200U-480	PPL200U-560	
Output	DC Output Voltage	48.0V	56.0V	
	Max Current	4.17A	3.58A	
	Output Power	200.16W	200.48W	
	Regulation	± 5%	\pm 5%	
	Ripple & Noise P-P(max) ²	480mV	560mV	
	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	2.8A max		
	Inrush Current	100A max., 240VAC (Cold start at ambient 25°C, full load)		
	No Load Power Consumption at 115VAC Input	0.142W	0.129W	
Input	No Load Power Consumption at 230VAC Input	0.149W	0.139W	
	115VAC Average Efficiency ³	92.3%	92.3%	
	230VAC Average Efficiency ³	93.3%	93.4%	
	230VAC 10% Load Efficiency ³	90.1%	85.1%	
	Leakage Current	<3.5	mA	
	Over-Voltage	150% max	150% max	
Protection	Short Circuit	Shutdown		
	Over-Current	150% max	150% max	
Environmental	Operating Temperature	0°C to +40°C		
	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		
Safati	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		
Mechanical	Dimensions (L x W x H)	183.2mm (7.21in) x 81mm (3.19in) x 42.3mm (1.67in)		
	Weight	820g		
	Cable Length	1500mm		
	DC Cable Type	16 AWG*4C		
	DC Output Connector	4 pin DIN		
	DC Plug Pin Assignment	P1(+); P2(+); P3(-); P4(-)		
	Input Connector	IEC 60320 C14		
Notes	 The specifications defined are at ambient temperature of 25°C, 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. 			

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



PPL200U Outline Drawing



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

PPL200U-120 PPL200U-135 PPL200U-190 PPL200U-240 PPL200U-240 PPL200U-560

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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.



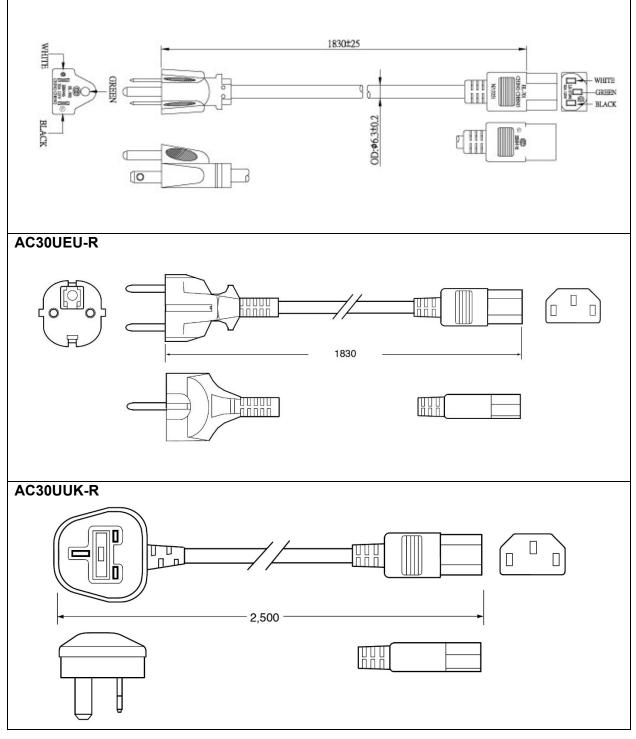
PPL200U Line Cords Sold Separately

Model		AC30UNA-R	AC30UEU-R	AC30UUK-R
	Plug Type	North America NEMA 5-15P	Continental Europe CEE 7VIII	United Kingdom BS 1363
	Connector	IEC320 C13	IEC320 C13	IEC320 C13
	Wire Size	18 AWG	0.75mm	1.0mm
Specifications	Temperature	60°C	70°C	70 °C
	Amperage Rating	10A	6A	10A
	Voltage Rating	125V	250V	250V
	Cable Length	1830mm	1830mm	2500mm
Safety Approvals		CSA; UL	CEBEC; DEMKO; DVE; FIMKO; GOST; IMQ; KEMA; NEMKO; NF; OVE; SEMKO	BSI; Safety Mark
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PPL200U Line Cords Outline Drawings

AC30UNA-R



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