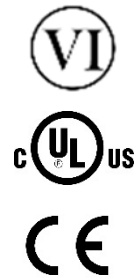




200W Desktop C14 Adapter Series



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



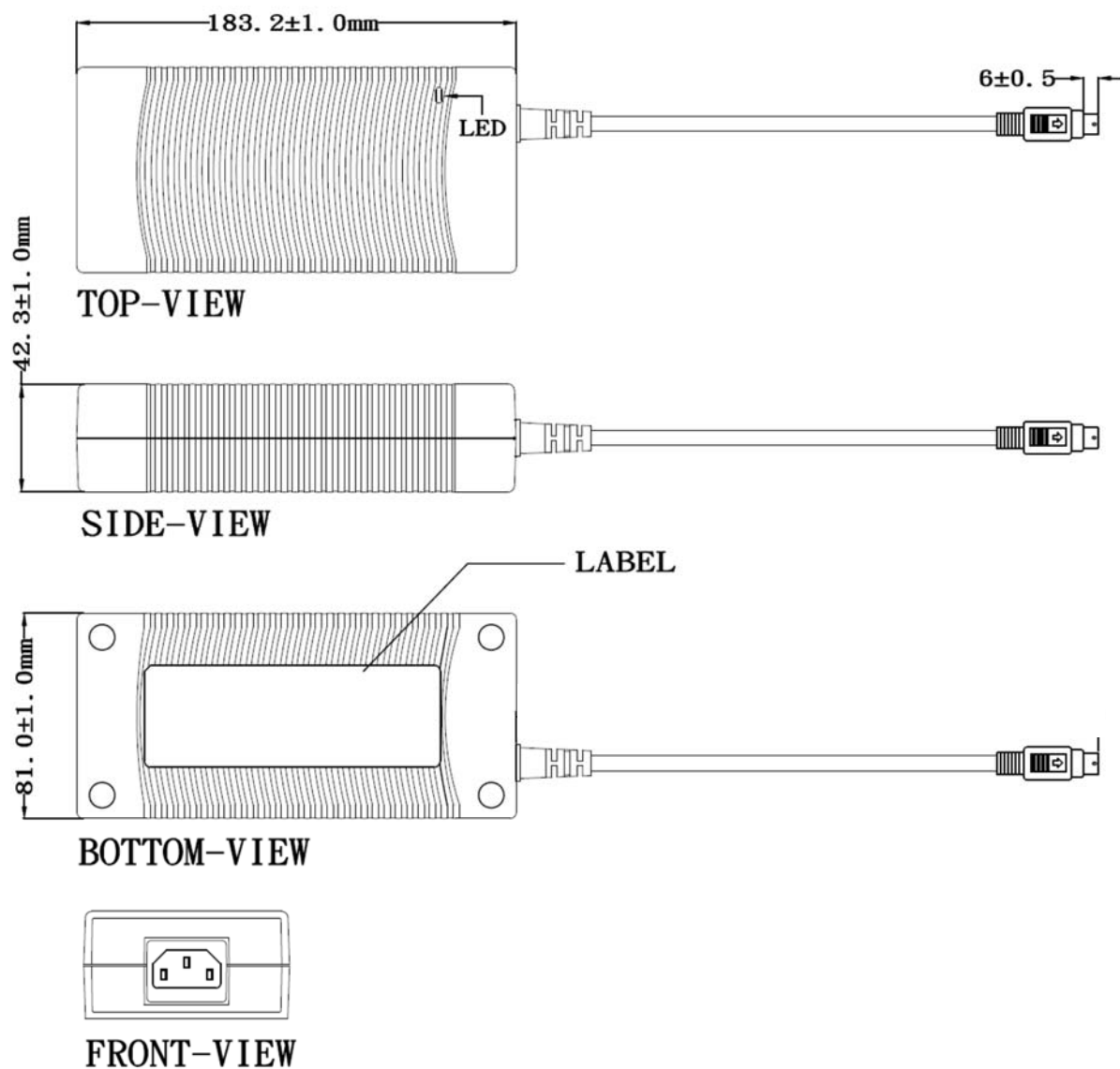
PPL200U Series Specifications¹

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
Input	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	0.133W	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			
Protection	Over-Voltage	150% max	150% max	150% max	150% max
	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%			
Safety Approvals and EMC	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			
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated			
	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%	± 5%
	Ripple & Noise P-P(max) ²	480mV	560mV
Input	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
	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	<3.5mA	
Protection	Over-Voltage	150% max	150% max
	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%	
Safety Approvals and EMC	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	
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated	
	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	1. The specifications defined are at ambient temperature of 25°C, unless otherwise specified. 2. 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). 3. Efficiency is measured after 30 minutes burn-in.		



PPL200U Outline Drawing



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

**PPL200U-120
PPL200U-135
PPL200U-190
PPL200U-240
PPL200U-480
PPL200U-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.



PPL200U Line Cords

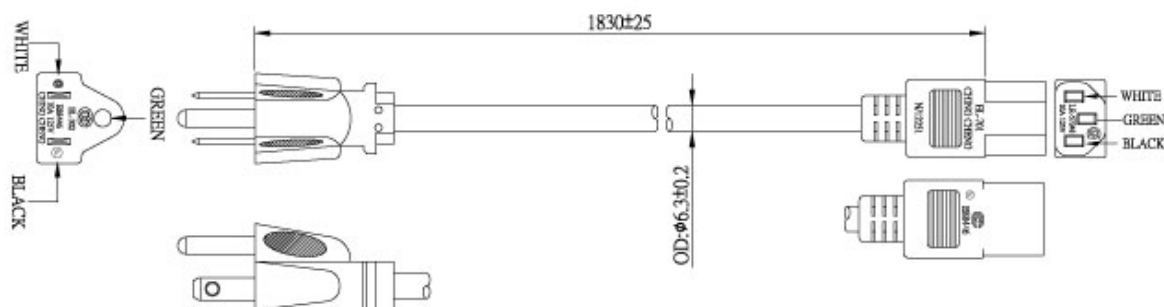
Sold Separately

Model		AC30UNA-R	AC30UEU-R	AC30UUK-R
Specifications	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
	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
Photos				

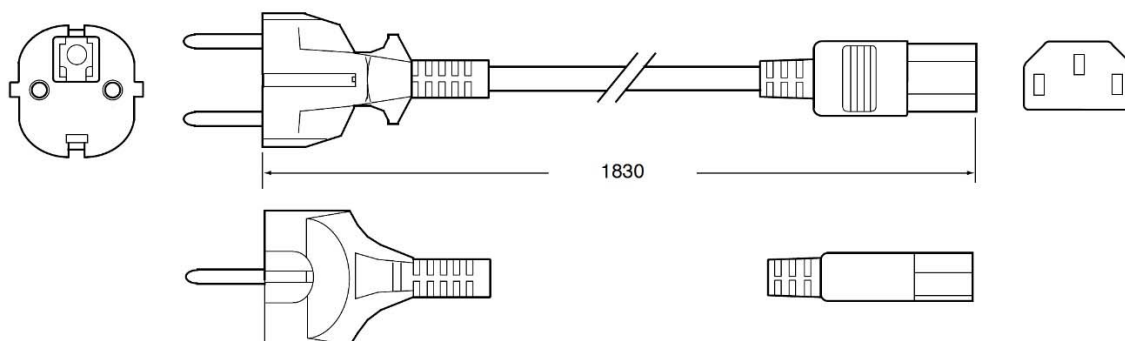


PPL200U Line Cords Outline Drawings

AC30UNA-R



AC30UEU-R



AC30UUK-R

