



65W Desktop C14 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
- Isolated Output (Earth ground & DC Return Connect Through Isolation Capacitor).
Consult Phihong for Earth Ground tied to DC Return Version

Applications

- Networking
- Peripherals
- Consumer Electronics

*NRCan approval for PPL65U-120, PPL65U-150, PPL65U-180, PPL65U-190, PPL65U-240, PPL65U-480, PPL65U-560 models only

Phihong Taiwan - No.568, Fuxing 3rd Rd., Guishan Dist., Taoyuan City (33383), Taiwan, ROC

Phihong USA - 47800 Fremont Blvd. Fremont, CA 94538, USA

Phihong Europe - Wattstraat 50, 2171 TR Sassenheim, The Netherlands



PPL65U Series Specifications¹

| Model | | PPL65U-120 ¹ | PPL65U-135 | PPL65U-150 ¹ | PPL65U-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 |
| Input | 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 | 0.031W | 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 | <3.5mA | | | |
| Protection | Over-Voltage | 150% max | 150% max | 150% max | 150% max |
| | Short Circuit | Auto-recover after short-circuit fault is removed | | | |
| | Over-Current | 180% max | 180% max | 180% max | 180% 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) | 115mm (4.53in) x 53mm (2.09in) x 38mm (1.50in) | | | |
| | Weight | 310g | | | |
| | 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 C14 | | | |

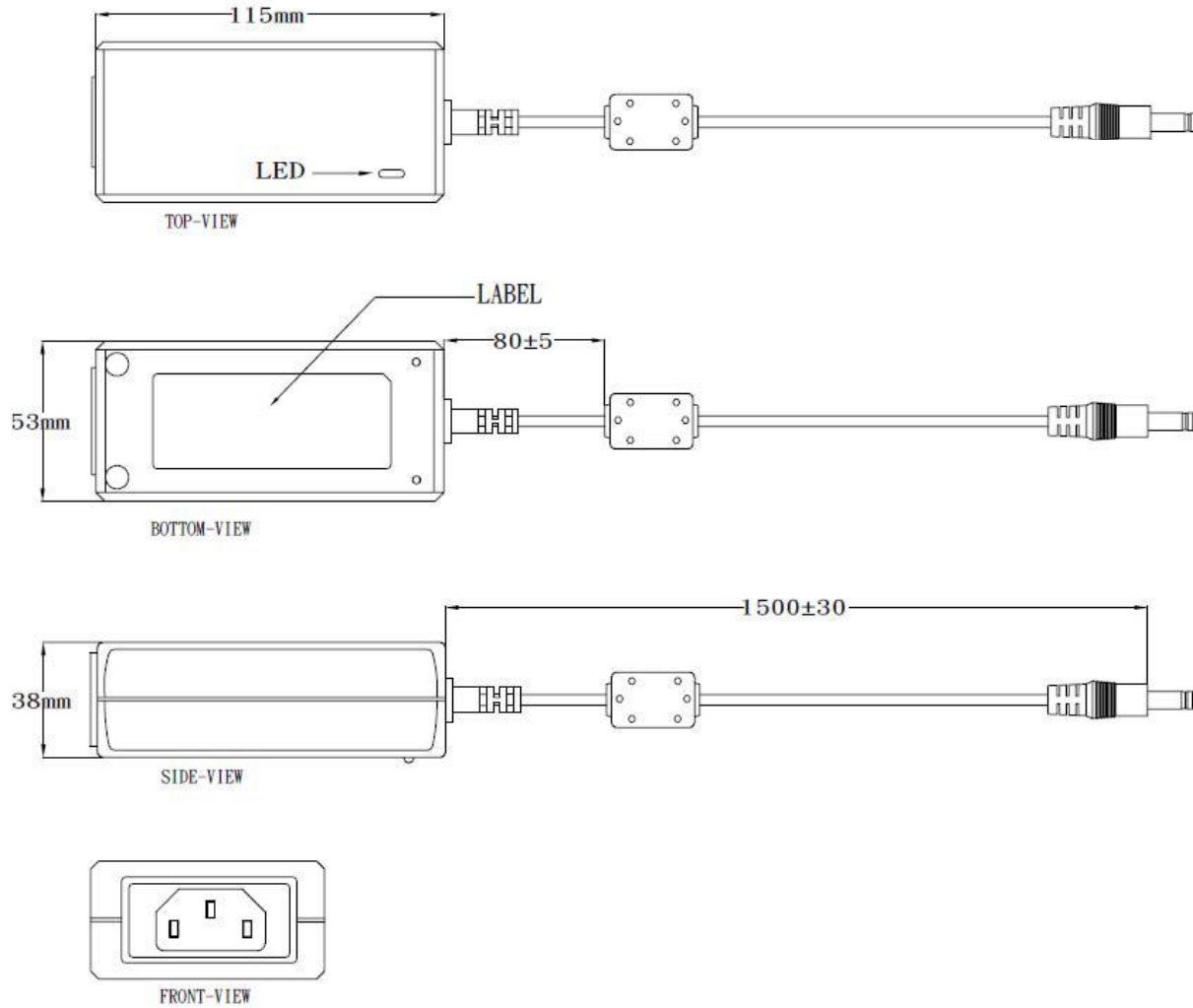
| Model | | PPL65U-180* | PPL65U-190* | PPL65U-200 | PPL65U-240* |
|--------------------------|---|---|-------------|------------|-------------|
| Output | DC Output Voltage | 18.0V | 19.0V | 20.0V | 24.0V |
| | Max Current | 3.62A | 3.43A | 3.25A | 2.71A |
| | Output Power | 65.2W | 65.2W | 65.0W | 65.04W |
| | Regulation | ± 5% | ± 5% | ± 5% | ± 5% |
| | Ripple & Noise P-P(max) ² | 180mV | 190mV | 200mV | 240mV |
| Input | 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 |
| | 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 | <3.5mA | | | |
| Protection | Over-Voltage | 150% max | 150% max | 150% max | 150% max |
| | Short Circuit | Auto-recover after short-circuit fault is removed | | | |
| | Over-Current | 180% max | 180% max | 180% max | 180% 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) | 115mm (4.53in) x 53mm (2.09in) x 38mm (1.50in) | | | |
| | 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 C14 | | | |

| Model | | PPL65U-300 | PPL65U-320 | PPL65U-480* | PPL65U-560* |
|--------------------------|--|---|------------|-------------|-------------|
| Output | DC Output Voltage | 30.0V | 32.0V | 48.0V | 56.0V |
| | Max Current | 2.17A | 2.04A | 1.36A | 1.17A |
| | Output Power | 65.1W | 65.3W | 65.3W | 65.5W |
| | Regulation | ± 5% | ± 5% | ± 5% | ± 5% |
| | Ripple & Noise P-P(max) ² | 300mV | 320mV | 480mV | 560mV |
| Input | 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 |
| | 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 | <3.5mA | | | |
| Protection | Over-Voltage | 150% max | 150% max | 150% max | 150% max |
| | Short Circuit | Auto-recover after short-circuit fault is removed | | | |
| | Over-Current | 180% max | 180% max | 180% max | 180% 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) | 115mm (4.53in) x 53mm (2.09in) x 38mm (1.50in) | | | |
| | Weight | 310g | | | |
| | Cable Length | 1500mm | | | |
| | 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 C14 | | | |
| Notes | <ol style="list-style-type: none"> 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. | | | | |

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PPL65U Outline Drawing








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

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This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



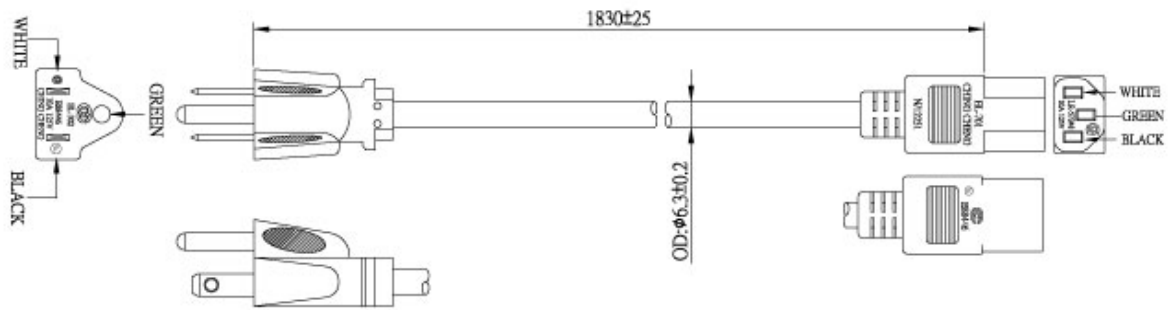
PPL65U Line Cords Sold Separately

| 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 | |  |  |  |

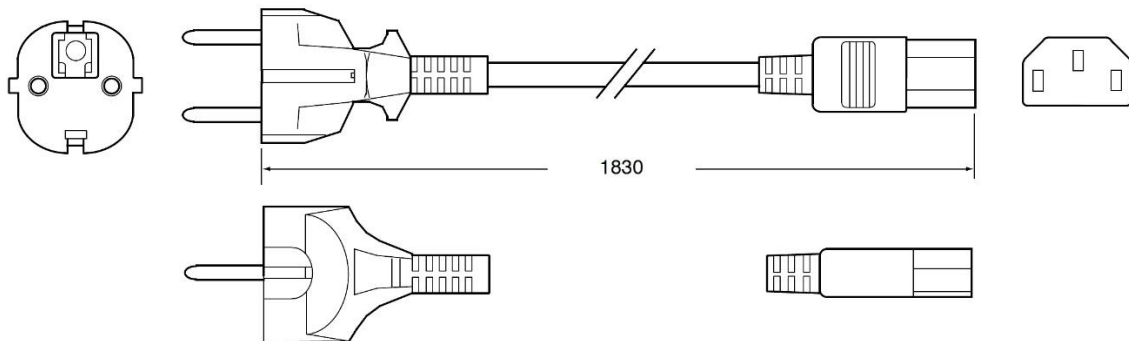


PPL65U Line Cords Outline Drawings

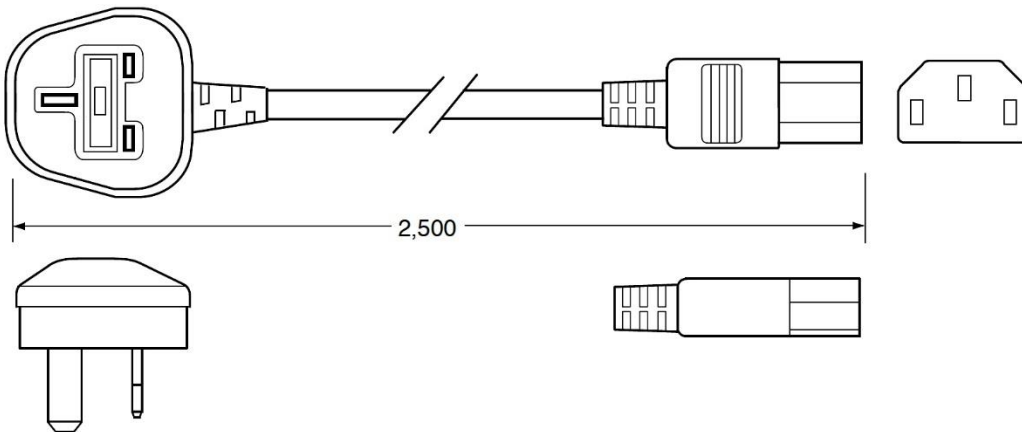
AC30UNA-R



AC30UEU-R



AC30UUK-R



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