

24 Watt C14 Inlet Desktop Adapter

FEATURES

- DoE Level VI Efficiency Compliance
- EU CoC Tier 2 Compliance
- Class B EMI
- Short Circuit, Over-Voltage, Over-Temperature Protections
- Non-Vented Splash-Proof Case



APPLICATIONS

- Networking
- Peripherals
- Consumer Electronics
- Test and Measurement



The PPL24U series adapters, approved to UL & IEC 62368-1 compliance standards, are practical solutions for use in Audio/Visual and Information Technology Equipment applications. Housed in a splash-proof case measuring 3.94” (L) x 1.97” (W) x 1.30” (H) and having an IEC 320 C14 inlet receptacle, the adapters meet Class B emissions limits and the latest US Department of Energy Level VI regulations, European EU 2019/1782 energy efficiency regulations, as well as voluntary Code of Conduct Version 5 Tier 2 efficiency limits.

Model	Output Voltage	Max. Output Current	Output Power	Output Regulation	Ripple & Noise ² (P-P)	Average Efficiency ^{3,4}		230Vac 10% Load Efficiency ⁴	Protections	
						115Vac	230Vac		OVP ⁵	OCP ⁵
PPL24U-050 ⁷	5.0V	4.0A	20.0W	± 5%	100mV	≥83.084%	≥83.684%	≥72.244%	12V	8A
PPL24U-090 ⁷	9.0V	2.5A	22.5W	± 5%	100mV	≥85.956%	≥86.518%	≥76.518%	16V	5A
PPL24U-120 ⁷	12.0V	2.0A	24.0W	± 5%	120mV	≥86.204%	≥86.804%	≥76.804%	22V	5A
PPL24U-150 ⁷	15.0V	1.6A	24.0W	± 5%	150mV	≥86.204%	≥86.804%	≥76.804%	32V	4A
PPL24U-240 ⁷	24.0V	1.0A	24.0W	± 5%	240mV	≥86.204%	≥86.804%	≥76.804%	45V	2.5A
PPL24U-480	48.0V	0.5A	24.0W	± 5%	480mV	≥86.204%	≥86.804%	≥76.804%	75V	1.2A

Notes	<ol style="list-style-type: none"> 1. All specifications defined are at ambient temperature of 25°C, unless otherwise specified. 2. Measured at 20 MHz and output by-passed at connector with 0.1µF multilayer capacitor & 47µF low ESR electrolytic capacitor at nominal line voltage & full load. 3. Tested at 100%, 75%, 50%, and 25% of rated output current and then arithmetic average of four computed. 4. Efficiency at 115Vac input & 230Vac input measured after 30 minutes burn-in. 5. Maximum value. 6. Secondary return connected to Frame Ground. 7. Built to order model. Minimum order quantity applies.
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Specifications¹

Input

AC Voltage Range	90Vac to 264Vac
Frequency	47 to 63Hz
Input Current	0.58A max.
Inrush Current	50A max. / 100Vac, 60A max. /230Vac (Cold Start at 25°C, full load, Chroma 6530 AC source)
Leakage Current	<5mA (RMS) or 7.07mA (Peak)
No Load Power Consumption	≤0.10W at 115Vac input, ≤0.075W at 230Vac input

Protections

Over Current	Shutdown with auto-restart. Refer to table on page 1 for maximum trip points.
Over Voltage	Shutdown. Refer to table on page 1 for maximum trip points.
Short Circuit	Shutdown with auto-recovery after short circuit fault condition is removed.

Environmental

Operating Temperature	0°C to +40°C
Operating Humidity	20% to 80% relative humidity
Storage Temperature	-20°C to +80°C
Storage Humidity	10% to 90% relative humidity

Safety, Emissions & Immunities

Harmonic Current Emission	EN 61000-3-2		
Voltage Fluctuations & Flicker	EN 61000-3-3		
Safety Standards	UL & IEC 62368-1		
Emissions	FCC Part 15 class B and EN 55032 class B conducted & radiated		
Immunities	EN 55035		
	ESD	EN 61000-4-2	Contact discharge: ±4kV Criterion A Air discharge: ±8kV Criterion A
	Radiated Immunity	EN 61000-4-3	80-1000MHz, 3V/m, 80%AM (1kHz), Criterion A 1800, 2600, 3500, 5000MHz, 80% AM (1kHz), Criterion A
	Electrical Fast Transient	EN 61000-4-4	±0.5kV, ±1.0kV, ±2.0kV, Criterion B
	Surge	EN 61000-4-5	L-N, L-PE: 1kV Criterion A N-PE: 2kV Criterion A
	Conducted Disturbances	EN 61000-4-6	0.15-80MHz, 3V, 80% AM (1kHz), Criterion A
	Magnetic Field Immunity	EN 61000-4-8	1A/m at 50Hz Criterion A
	Voltage Interruptions	EN 61000-4-11	>95% reduction, 5 S at 50/60Hz, Criterion B
Voltage Dips	>95% reduction 10 mS at 50Hz, Criterion A >95% reduction, 8.33 mS at 60Hz, Criterion A 30% reduction, 500 mS at 50/60Hz, Criterion A		
Hi-POT Test⁶	Pri. to Sec. 3000Vac (RMS) ≤ 10mA for 1 minute, Pri. to FG 1770Vac (RMS) ≤ 10mA for 1 minute		
Insulation Resistance⁶	Pri. to Sec. 10MΩ for 500Vdc, Pri. to FG 10MΩ for 500Vdc		

Mechanicals

Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.30in)
Weight	170g typical
AC Input	IEC 320 C14 Inlet

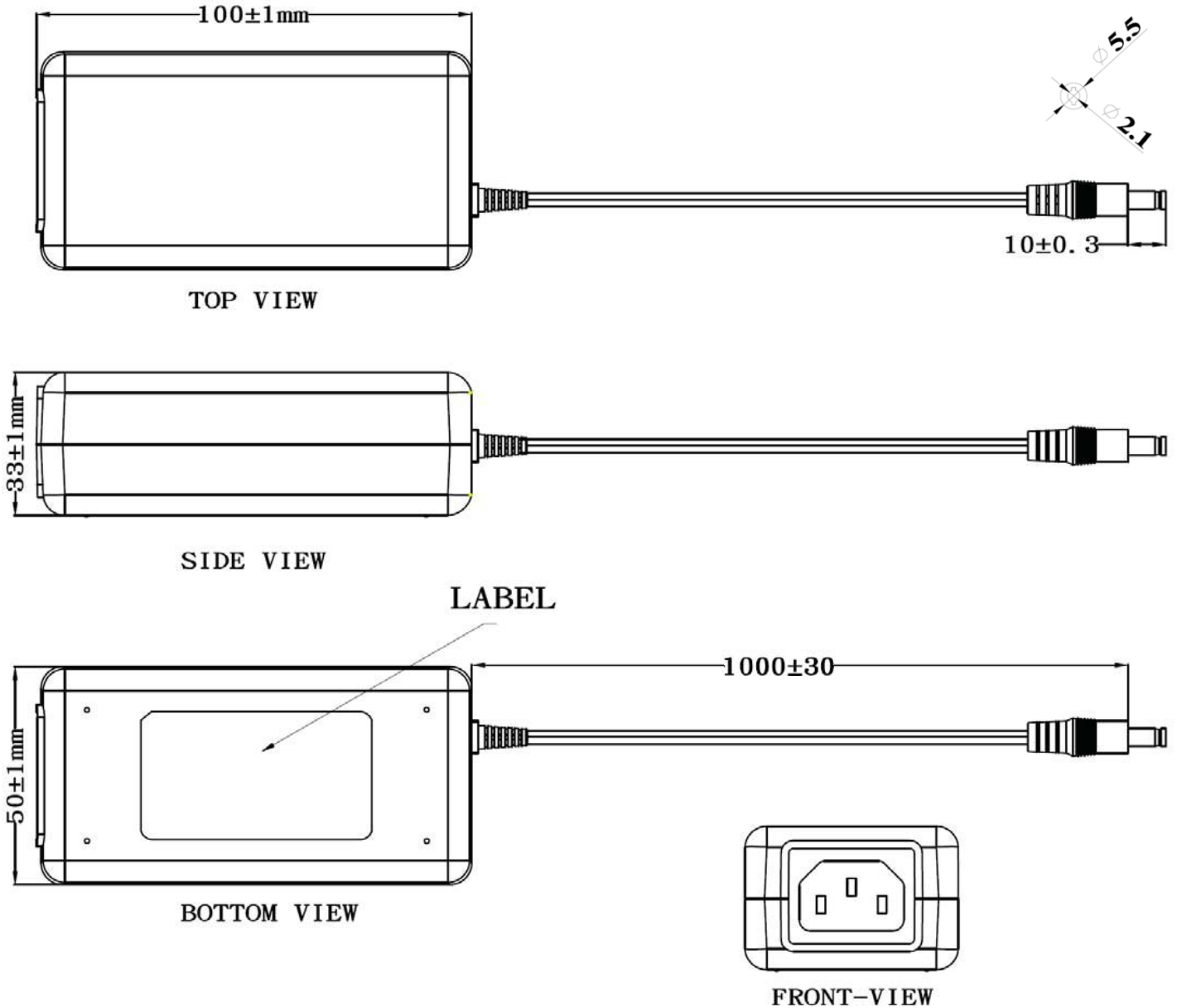
Specifications¹

DC Output Cable & Connector	PPL24U-050	1000mm, 18AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24U-090	1500mm, 18AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24U-120	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24U-150	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24U-240	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24U-480	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm

Specifications¹

Mechanical Outline Drawing

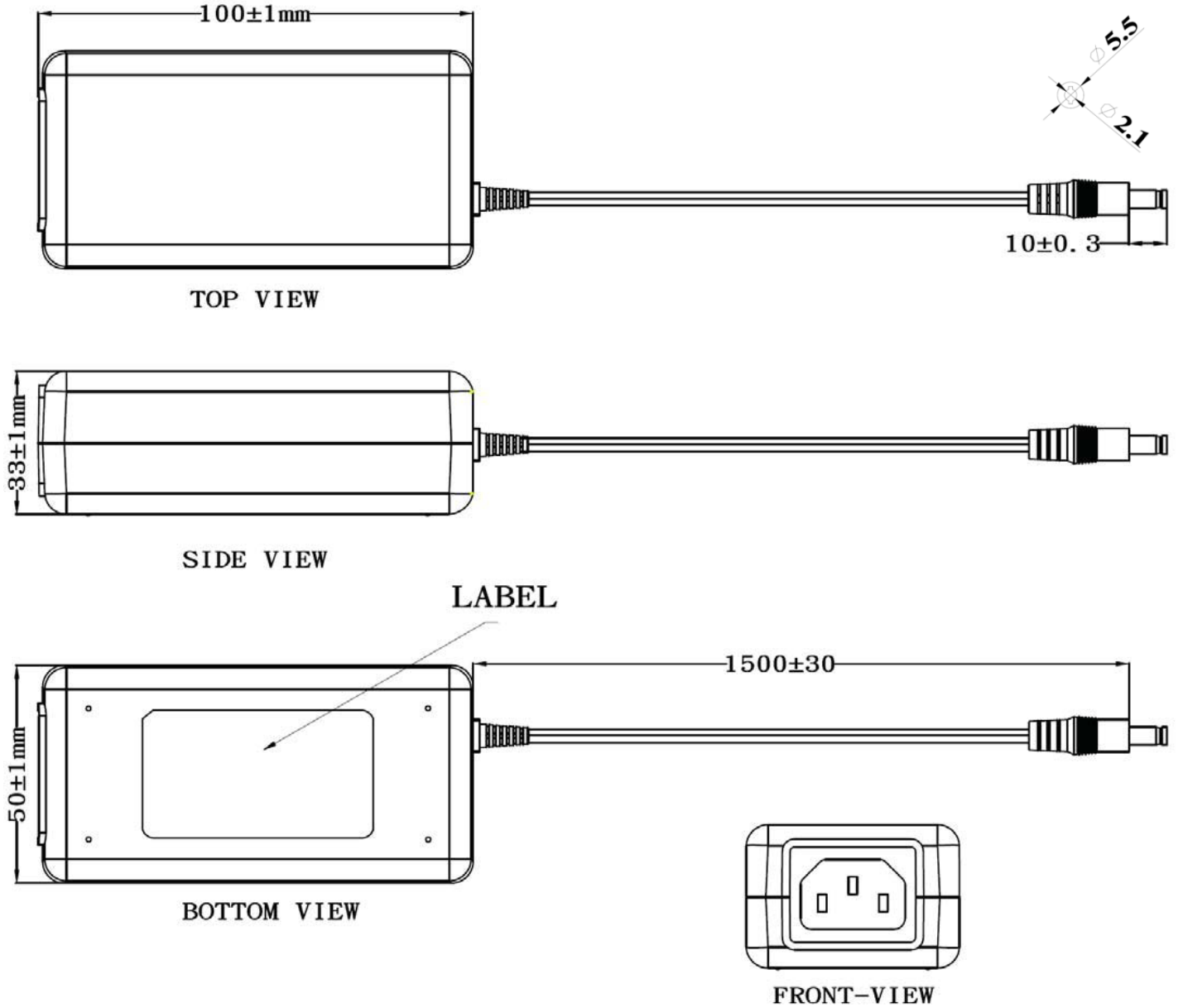
For PPL24U-050



Specifications¹

Mechanical Outline Drawing

For PPL24U-090, PPL24U-120, PPL24U-150, PPL24U-240, & PPL24U-480





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

MODELS

PPL24U-050

PPL24U-090

PPL24U-120

PPL24U-150

PPL24U-240

PPL24U-480

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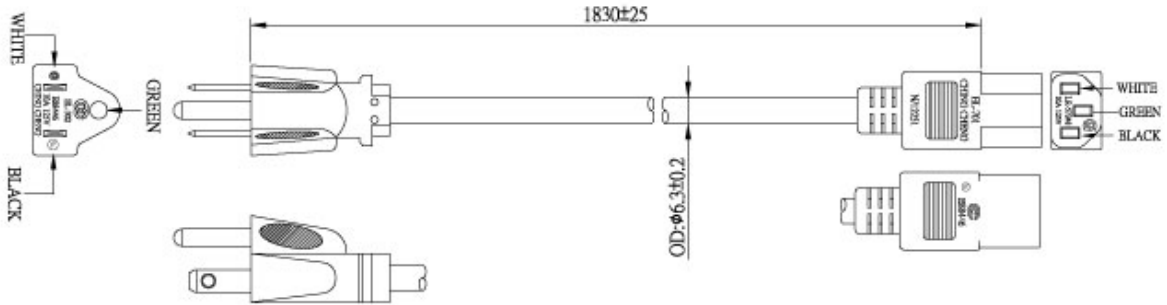
These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Sold Separately

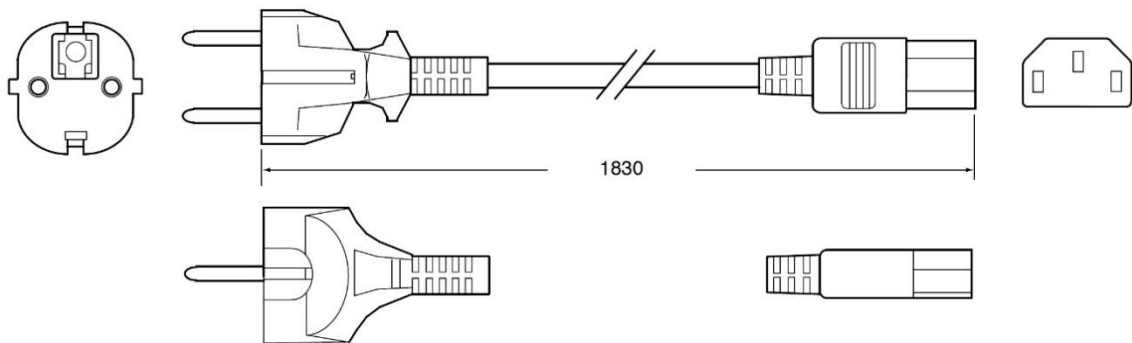
Model		AC30UNA-R	AC30UEU-R	AC30UUK-R
Specifications	Plug Type	North America NEMA 5-15P	Continental Europe CEE 7VIII	United Kingdom BS 1363
	Connector	IEC320 C13	IEC320 C13	IEC320 C13
	Wire Size	18 AWG	0.75mm	1.0mm
	Temperature	60°C	60°C	70 °C
	Amperage Rating	10A	6A	10A
	Voltage Rating	125V	250V	250V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

Outline Drawing

AC30UNA-R



AC30UEU-R



AC30UUK-R

