24 Watt C8 Inlet Desktop Adapter

FEATURES

- Class II Double Insulated Design
- 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



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APPLICATIONS

- Networking
- Peripherals
- Consumer Electronics
- Test and Measurement

The PPL24W series desktop adapters are high efficiency solutions approved to UL & IEC 62368-1 compliance standards and are ideal for use in Audio/Visual and Information Technology Equipment applications. Housed in a splash-proof case measuring 3.48" (L) x 1.97" (W) x 1.34" (H) with an IEC 320 C8 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.

	Output	Max. Output	Output	Output	Ripple & Noise ²	Average Ef	ficiency ^{3,4}	230Vac 10% Load	Prote	ctions
Model	Voltage	Current	Power	Regulation	(P-P)	115Vac	230Vac	Efficiency ⁴	OVP⁵	OCP⁵
PPL24W-050 ⁶	5.0V	4.0A	20.0W	± 5%	100mV	≥83.084%	≥ 83.684 %	≥ 72.244 %	12V	8A
PPL24W-090 ⁶	9.0V	2.5A	22.5W	± 5%	100mV	≥85.956%	≥ 86.518 %	≥ 76.518 %	16V	5A
PPL24W-120 ⁶	12.0V	2.0A	24.0W	± 5%	120mV	≥86.204%	≥86.804%	≥76.804%	22V	5A
PPL24W-150 ⁶	15.0V	1.6A	24.0W	± 5%	150mV	≥86.204%	≥86.804%	≥76.804%	32V	4A
PPL24W-240 ⁶	24.0V	1.0A	24.0W	± 5%	240mV	≥86.204%	≥86.804%	≥ 76.804 %	45V	2.5A
PPL24W-480	48.0V	0.5A	24.0W	± 5%	480mV	≥86.204%	≥86.804%	≥76.804%	75V	1.2A

	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 $0.1\mu F$ multilayer capacitor & 47 μF low ESR
		electrolytic capacitor at nominal line voltage & full load.
Notes	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.	Built to order model. Minimum order quantity applies.

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	<0.5mA (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				
	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, 3600, 5000MHz, 3V/m, 80% AM (1kHz), Criterion A		
	Electrical Fast Transient	EN 61000-4-4	±0.5kV, ±1.0kV, Criterion A		
	Surge	EN 61000-4-5	L-N: 1kV Criterion A		
Immunities	Conducted Disturbances	EN 61000-4-6	0.15-80MHz, 3V, 80% AM (1kHz), Criterion A 10-30MHz, 3~1V, 80% AM (1kHz), Criterion A 30-80MHz, 1V, 80% AM (1kHz), Criterion A		
	Magnetic Field Immunity	EN 61000-4-8	1A/m at 50Hz, Criterion A		
	Voltage Interruptions		>95% reduction, 5 S at 50/60Hz, Criterion B		
	Voltage Dips	EN 61000-4-11	>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 Test	Pri. to Sec. 3000Vac (RMS) ≤ 10mA for 1 minute				
Insulation Resistance	Pri. to Sec. 10MΩ for 500Vdc				

Mechanicals

Dimensions (L x W x H)	88.5mm (3.48in) x 50mm (1.97in) x 34mm (1.34in)
Weight	170g typical
AC Input	IEC 320 C8 Inlet



PPL24W Series

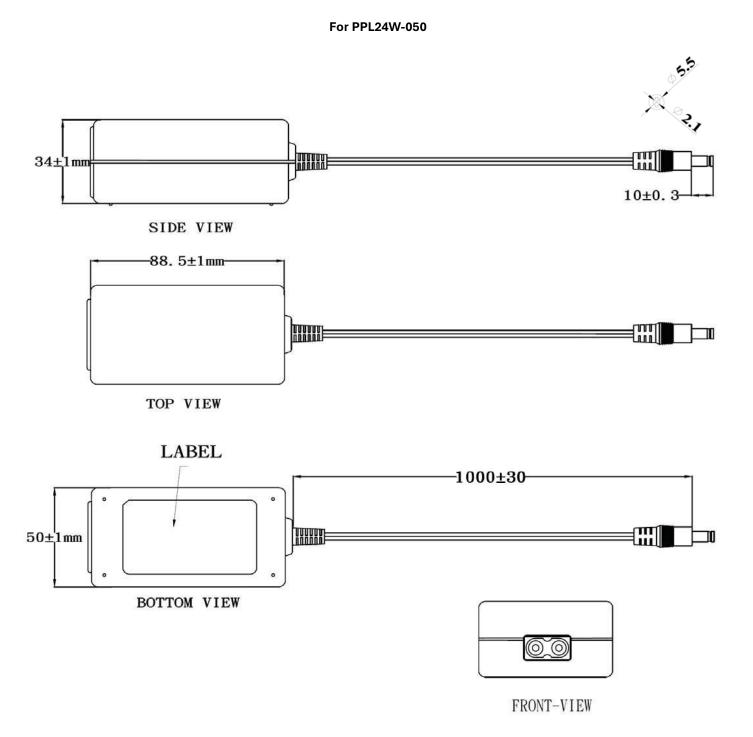
Specifications¹

	PPL24W-050	1000mm, 18AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24W-090	1500mm, 18AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
DC Output Cable & Connector	PPL24W-120	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
DC Output Cable & Connector	PPL24W-150	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24W-240	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm
	PPL24W-480	1500mm, 22AWG, 2.1 (+) x 5.5mm (-) x 10.0mm



Specifications¹

Mechanical Outline Drawing

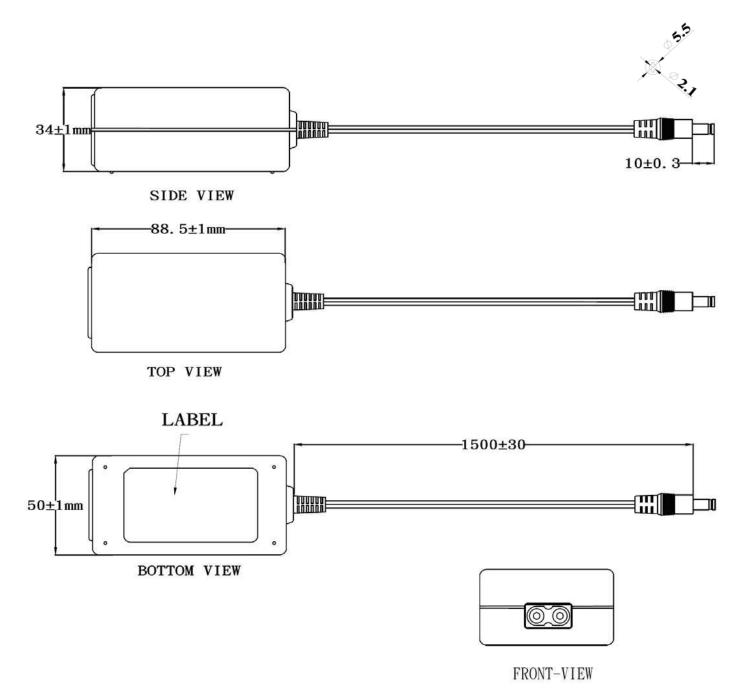




Specifications¹

Mechanical Outline Drawing

For PPL24W-090, PPL24W-120, PPL24W-150, PPL24W-240, & PPL24W-480





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

> MODELS PPL24W-050 PPL24W-090 PPL24W-120 PPL24W-150 PPL24W-240 PPL24W-240

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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.

AC 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	60°C	60 °C
	Amperage Rating	7A	2.5A	2.5A
	Voltage Rating	125V	250V	250V
	Cable Length	1830mm	1830mm	1830mm
Safe	ety Approvals	CSA; UL	CEBEC; DEMKO; DVE; FIMKO; GOST; IMQ; KEMA; NEMKO; NF; OVE; SEMKO; SEV	BSI; Safety Mark
Photos				

Outline Drawing

AC Line Cords

